



**A Report Prepared for:**

BMR-Dexter LLC  
201 Elliott Avenue West, Suite 150  
Seattle, WA 98119

**FINAL REMEDIAL INVESTIGATION/FEASIBILITY  
STUDY WORK PLAN  
AMERICAN LINEN SUPPLY CO-DEXTER AVENUE SITE  
700 DEXTER AVENUE NORTH  
SEATTLE, WASHINGTON**

**Agreed Order No. DE 14302  
Facility Site Identification Number: 3573  
Cleanup Site Identification Number: 12004**

**DECEMBER 4, 2019**

By:

A handwritten signature in blue ink that reads "Daniel Balbiani".

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Daniel A. Balbiani, P.E.  
Principal Engineer

A handwritten signature in blue ink that reads "William R. Haldeman".

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William R. Haldeman  
Associate Hydrogeologist

**1413.001.02**

**APPENDIX B**

**BORING AND WELL LOGS FROM THE 2018 AND 2019 INVESTIGATIONS**



Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
 <p>Bentonite Chips</p>					0		Concrete (4 inches)
					2		DARK BROWN SILTY SAND (SM), moist, fine to coarse, few subangular to subrounded fine to coarse gravel, (FILL)
	17.2	B-249-4	19		4		
	56.1	B-249-5*			6		
					8		BROWNISH GRAY SILTY SAND (SM), moist, fine to medium, some fines, trace subrounded fine gravel
	54.2	B-249-8*	22		10		GRAY SAND WITH SILT (SP), moist, fine to medium, few fines, trace subrounded fine gravel, slight odor at 10 feet: soil Color-Tec reading 1.2 mg/kg
	401.2	B-249-10			12		
					14		BROWNISH GRAY SILTY SAND (SM), wet, fine to coarse, some fines, traces fine gravel, slight odor
	76.2	B-249-15*	12		16		at 16.5 feet: interbedding BROWNISH GRAY SAND WITH SILT (SP), fine to medium
					18		At 17 feet: soil Color-Tec reading 21 mg/kg
				20		At 20 feet: soil Color-Tec reading 40 mg/kg	
					22		Bottom of boring at 20 feet bgs Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					24		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: -

Total Drilled Depth: 20 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/15/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe






Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete (4 inches)
					2		GRAYISH BROWN SILTY SAND (SM), moist, fine to coarse, little fines, trace subangular to subrounded fine to coarse gravel
	10.4	B-250-2.5*	40		4		GRAYISH BROWN SILTY SAND (SM), moist, fine to coarse, some fines, trace subangular to subrounded fine to coarse gravel
					4.5		at 4.5 feet: orange mottling
	28.5	B-250-5			6		at 6 feet: little fines
					7		at 7 feet: 2-inch thick layer of coarse subrounded gravel
	37.5				8		at 8 feet: Color-Tec soil reading 7.7 mg/kg
	113.1	B-250-8*	40		10		at 10 feet: Color-Tec soil reading 46 mg/kg
					12		
	6600	B-250-10*			12		
	1009				12		
	4352	B-250-13*	48		14		GRAYISH BROWN SAND WITH SILT (SP), wet, fine to coarse, few fines, trace subangular to subrounded fine gravel, faint chemical odor
					13		at 13 feet: soil Color-Tec reading 85 mg/kg
	143.9	B-250-15			15		at 15 feet: soil Color-Tec reading 0.9 mg/kg
					16		GRAY BROWN GRAVEL WITH SAND (GP), fine to coarse subangular to subrounded gravel, some sand, few to little fines
				18		BROWNISH GRAY SILTY SAND (SM), wet, fine to medium, some fines, few subangular to subrounded fine to coarse gravel	
120.2				18			
120.4	B-250-18.5	44		20			
303.6				20		at 20 feet: soil Color-Tec reading 46 mg/kg	
120.7	B-250-20*			22			
				24			
4432				24		at 24 feet: moist, trace fine gravel, soil Color-Tec reading 16.5 mg/kg	
1233	B-250-24*						
411.8	B-250-25	13				GRAY SANDY SILT (ML), moist, some fine to coarse sand, trace subrounded to rounded	

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: -

Total Drilled Depth: 30 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/15/18 - 10/16/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe








Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	71.5	B-250-30*	60		26		fine gravel, faint chemical-like odor at 25 feet: soil Color-Tec reading 16.5 mg/kg
	45.7				28		GRAY SILTY SAND (SM), moist to wet, fine to medium, some fines, trace subrounded to rounded fine gravel
	61.6				30		at 30 feet: soil Color-Tec reading 0.07 mg/kg
					32		Bottom of boring at 30 feet bgs
					34		Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					36		
					38		
					40		
					42		
					44		
					46		
					48		
					50		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: -

Total Drilled Depth: 30 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/15/18 - 10/16/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete (8 inches)
					2		BROWN SILTY SAND (SM), moist, fine to coarse, little fines, trace subangular to subrounded fine gravel
	9.0				4		at 4 feet: BROWNISH GRAY, some fines
	17.4	B-251-3	32		6		
	8.3	B-251-5*			8		
	7.6				10		
	22.3	B-251-8*	40		12		GRAYISH BROWN SILTY SAND (SM), wet, fine to coarse, some fines, few subangular to subrounded gravel
	394.4	B-251-10*			14		at 10 feet: soil Color-Tec reading 15 mg/kg
	331.6				16		
	304				18		
	512	B-251-15*	46		20		at 15 feet: soil Color-Tec reading >85 mg/kg
	238.0				22		
247.2				24			
270.3				26			
282	B-251-20*	60		28		GRAYISH BROWN SILTY SAND (SM), wet, fine to medium, some fines, trace coarse sand, chemical-like odor	
253.0				30		at 20 feet: few gravel, faint chemical-like odor, soil Color-Tec reading 46 mg/kg	
1287				32			
848.8				34			
1407	B-251-25*	60		36		GRAYISH BROWN SAND (SP), wet, fine to medium sand, few fines, chemical-like odor	
					38		At 25 ft bgs: soil Color-Tec reading 21.1 mg/kg

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: -

Total Drilled Depth: 25 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/15/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					26		Bottom of boring at 25 feet bgs (Heaving sands)
					28		Boring backfilled with hydrated bentonite chips
					30		* sample submitted for laboratory analysis
					32		
					34		
					36		
					38		
					40		
					42		
					44		
					46		
					48		
					50		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: -

Total Drilled Depth: 25 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/15/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe








Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
<p>Bentonite Chips</p>					0		Concrete (4 inches)
					2		GRAYISH BROWN SILTY SAND (SM), moist, fine to coarse, little fines, few subangular to subrounded fine gravel, (FILL)
	16.7	B-252-2.5*	34		4		
	33.7	B-252-5*			6		at 5 feet: 5-inch lens of BLACK, fine to medium, some fines, trace subangular gravel, diesel-like odor
	27.4	B-252-8*	38		8		GRAYISH BROWN SAND WITH GRAVEL (SM), moist, fine to coarse, some fines, little subangular to subrounded fine to coarse gravel, (FILL)
	37.9				10		
	27.1	B-252-10*			12		BROWN SILTY SAND (SM), moist to wet, fine to medium, some fines, trace subrounded fine gravel, trace coarse sand, orange mottling, occasional sand lenses, faint chemical-like odor
	38.3				14		at 13 feet: soil Color-Tec reading 1 mg/kg
	106.1		46		16		at 15 feet: soil Color-Tec reading 4.4 mg/kg
	622.8	B-252-15*			18		GRAYISH BROWN SILTY GRAVEL WITH SAND (GM), wet, subangular to subrounded, fine to coarse, some fine to coarse sand, little fines
509	B-252-19*	25		20		at 19 feet: soil Color-Tec reading 7 mg/kg	
80	B-252-20			22		GRAYISH BROWN SAND WITH SILT (SP), wet, fine to medium, few fines, trace subangular to subrounded fine gravel	
14.1		28		24			
168.2	B-252-25*			26		at 25 feet: soil Color-Tec reading 1 mg/kg	

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: -

Total Drilled Depth: 29 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/15/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



















Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	205.2				26		
	225				26		
	125		48		28		BROWNISH GRAY SILTY SAND (SM), wet, fine to medium, some fines, trace subangular to subrounded fine gravel
	238.1	B-252-29*			29		at 29 feet: soil Color-Tec reading 0.07 mg/kg
					30		Bottom of boring at 29 feet bgs (Refusal)
					30		Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					32		
					34		
					36		
					38		
					40		
					42		
					44		
					46		
					48		
					50		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: -

Total Drilled Depth: 29 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/15/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete (6 inches)
					0.5		BROWN SILTY SAND (SM), fine to medium, few fines, homogenous (FILL)
					2		Concrete (45 inches)
					4		
	6.2	B-253A-5*			6		GRAYISH BROWN SILTY SAND (SM), wet, fine to coarse, some fines, few subrounded fine to coarse gravel, orange mottling (5 to 8 feet bgs), interbedded with GRAYISH BROWN SAND (SP), fine to coarse, few fines
	7.8	B-253A-8*	60		8		
	55.8	B-253A-10*			10		
					11		at 11 feet: 2-inch piece of burnt wood
	20.4		24		12		BROWN SAND WITH SILT AND GRAVEL (SP), wet, medium to coarse, some angular to subrounded fine to coarse gravel, few fines, trace fine sand
	83.2	B-253A-15*			14		
				16			
				18			
29.5		26		18		GRAYISH BROWN SILTY SAND WITH GRAVEL (SM), wet, fine to coarse, some fines, little subangular to subrounded fine to coarse gravel, low plasticity	
10.0	B-253A-20*			20		Bottom of boring at 20 feet bgs.	
						Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis	
					22		
					24		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 20 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/18/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete (4 inches)
					2		LIGHT BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace subrounded fine to coarse gravel, orange mottling
	4.7	B-254-3	27		4		
	70.2	B-254-5*			6		
	49.8	B-254-8	29		8		at 8 feet: wet, few fine to coarse gravel
	67.1				10		
	3.3	B-254-10*			12		at 12 feet: little fines, loose
	59.6		37		14		at 13 feet: Color-Tec soil reading >85 mg/kg at 14 feet: fine, dense
	608	B-254-13.5*			16		at 15 feet: fine to medium
	67	B-254-15			18		
	245.3	B-254-16			20		BROWNISH GRAY SILTY SAND (SM), wet, fine to medium sand, some fines, trace subangular to subrounded fine to coarse gravel, faint chemical odor
	142.7		60		22		
	389.1	B-254-20*			24		at 20 feet: Color-Tec soil reading 6 mg/kg
	320		48		26		GRAY SILTY SAND (SM), wet, fine to medium sand, some fines, trace to few subrounded to rounded fine to coarse gravel, more consolidated than material above
	103.4				28		
391	B-254-25*			30		at 24 feet: 6-inch thick medium sand lens at 25 feet: soil Color-Tec reading >85 mg/kg	

Project: Former American Linen  
Project Number: 1413.001.05.201  
Site Location: Seattle, WA  
Logged By: RTM  
Notes: -

Total Drilled Depth: 25 feet bgs  
Diameter of Boring: 2.25 inches  
Drill Date: 10/16/18  
Drilled By: Cascade Drilling  
Drill Method: Geoprobe





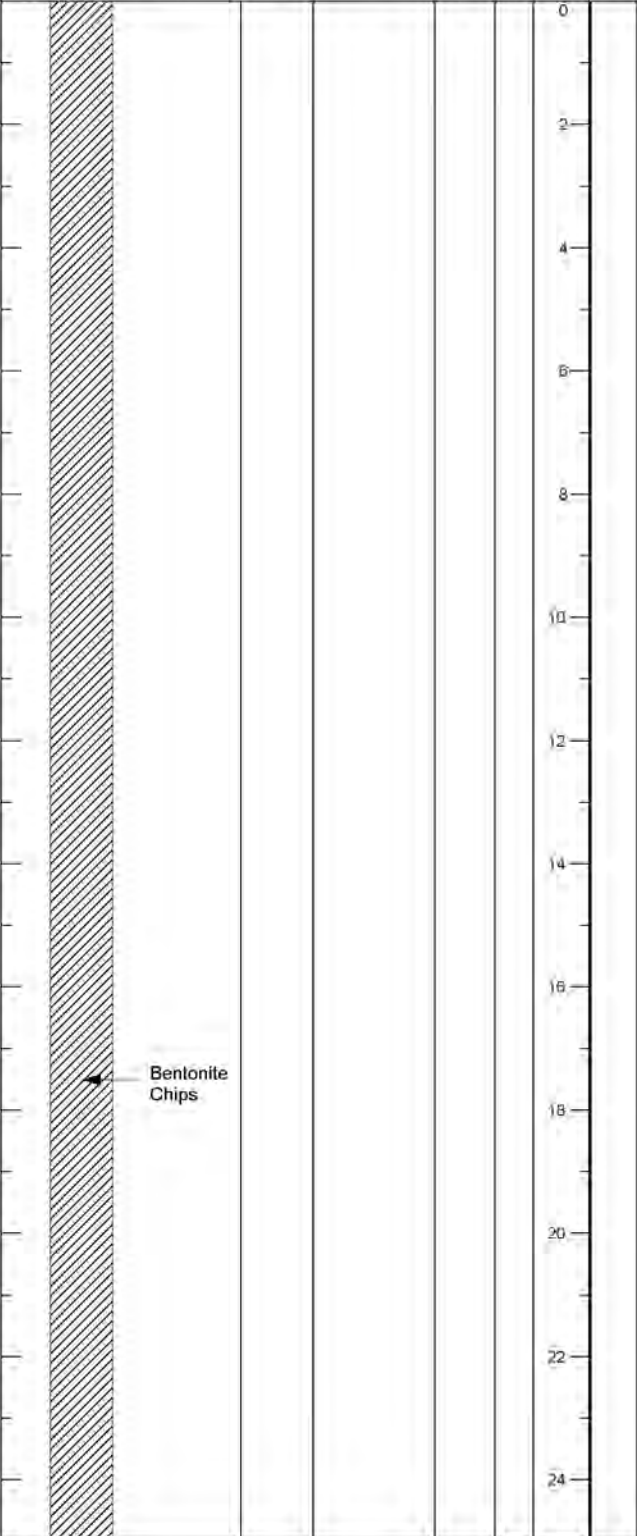
Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					26		Bottom of boring at 25 feet (Refusal)
					28		Boring backfilled with hydrated bentonite chips
					30		* sample submitted for laboratory analysis
					32		
					34		
					36		
					38		
					40		
					42		
					44		
					46		
					48		
					50		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: -

Total Drilled Depth: 25 feet bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/16/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe







Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
							
<p>Note: see log for B-254 for lithology from 0 to 25 feet bgs</p>							

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: Paired with B-254

Total Drilled Depth: 35 feet bgs  
 Diameter of Boring: 6 inches  
 Drill Date: 10/16/18  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic

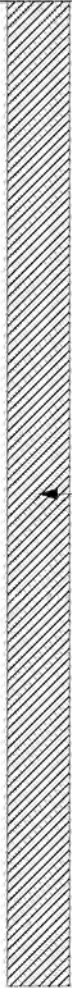


































Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	10.7	B-254A-27*	24	26	26		GRAYISH SILTY SAND WITH GRAVEL (SM), moist to wet, fine to medium, some fines, little subrounded to rounded gravel, trace coarse sand
	38.7		36	28	28		at 27 feet: rockHit rock driller had to grind on for a while to get past at 28 feet: Color-Tec soil reading 1.16 mg/kg
	20.8	B-254A-30*	30	30	30		at 30 feet: Color-Tec soil reading <0.005 mg/kg, large cobble
	1.6	B-254A-32	60	32	32		GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, fine to medium, some fines, some subrounded to subangular fine to coarse gravel, trace coarse sand, trace cobbles
	1.9	B-254A-35*		34	34		
					36		Bottom of boring at 35 feet bgs Boring backfilled with bentonite chips * sample submitted for laboratory analysis
					38		
					40		
					42		
					44		
					46		
					48		
					50		

Project: Former American Linen  
Project Number: 1413.001.05.201  
Site Location: Seattle, WA  
Logged By: RTM  
Notes: Paired with B-254

Total Drilled Depth: 35 feet bgs  
Diameter of Boring: 6 inches  
Drill Date: 10/16/18  
Drilled By: Cascade Drilling  
Drill Method: Sonic



Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
 <p>Bentonite Chips</p>					0		Concrete (4 inches)
					2		BROWN SILTY SAND (SM), moist to wet, fine to medium, little fines, trace subangular to subrounded fine to coarse gravel, trace coarse sand
	6.4	B-255-3.5*	16		4		
	5.3	B-255-5			6		at 5 feet: brownish gray, wet
	3.3				8		
	7.8	B-255-8*	43		10		at 7.5 feet: orange mottling
	6.7	B-255-10			12		BROWNISH GRAY SAND WITH SILT (SP), wet, fine to medium, few fines, trace coarse sand
	8.9				14		
	3.2		60		16		GRAY SILTY SAND (SM), wet, fine to medium, some fines, trace subrounded to rounded fine to coarse gravel, denser than previous units, occasional sand lenses, trace coarse sand
	22.4	B-255-15*			18		
34.6		12		20			
					22		
					24		
					26		
					28		
					30		
					32		
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					192		
					194		
					196		
					198		
					200		
					202		Bottom of boring at 16 feet bgs (Refusal), Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: Paired with B-255A

Total Drilled Depth: 16 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/16/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe





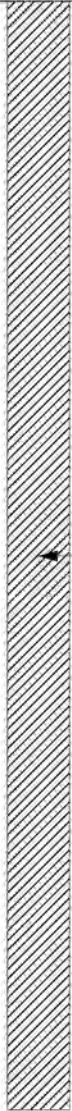












Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
<p>Bentonite Chips</p>					0		Note: See log for B-255 for lithology.
					2		
					4		
					6		
					8		
					10		
					12		
					14		
	10.7			60	16		GRAY AND LIGHT BROWN SILTY SAND (SM), moist, fine to medium, trace coarse sand, little to some fines, trace fine subangular to subrounded gravel.
	1.0				18		GRAY SILTY SAND (SM), moist, very dense, fine to medium, some fines, trace subrounded to rounded gravel.
161.4	B-255A-20			20		at 20 feet: Color-Tec soil reading 6 mg/kg	
386.4	B-255A-21*		12	21		at 21 feet: Color-Tec soil reading 4 mg/kg	
				22		Bottom of boring at 21 ft bgs (Refusal).	
				24		Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis	

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: Paired with B-255

Total Drilled Depth: 21 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/16/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe





Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete (4 inches)
	0.7				0.7		BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to coarse sand, little to some fines, little subrounded gravel, low plasticity, no odor (FILL)
	1.4	B-256-2.5*	39		1.4		at 3.5 feet: 1-foot layer of orange mottling
	2.8	B-256-5*			2.8		GRAY AND LIGHT BROWN SILTY SAND (SM), moist, fine to medium sand with trace coarse, little fines, trace fine subangular to subrounded gravel
	4.5	B-256-8	30		4.5		at 7.5 feet: wet
	5.4				5.4		INTERBEDDED GRAY AND LIGHT BROWN SAND AND SILTY SAND (SP/SM), wet, medium to coarse sand, few to some fines, few to little subangular to subrounded fine to coarse gravel, coarsening down sequences
	7.5	B-256-10*			7.5		
	26.0				26.0		GRAYISH BROWN SILTY GRAVEL WITH SAND (GP), wet, fine to coarse subangular to subrounded, some fine to coarse sand, little fines, no odor
	25.3		45		25.3		INTERBEDDED GRAY AND LIGHT BROWN SAND AND SILTY SAND (SP/SM), wet, medium to coarse sand, few to some fines, few to little subangular to subrounded fine to coarse gravel, coarsening down sequences
	37.6	B-256-15*			37.6		GRAY SILTY SAND (SM), moist to wet, fine to medium, some fines, trace subrounded to rounded gravel
22.2	B-256-18*	12		22.2		Refusal at 18 ft bgs	
					18		Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					20		
					22		
					24		

Project: Former American Linen  
Project Number: 1413.001.05.201  
Site Location: Seattle, WA  
Logged By: R. McLaughlin  
Notes: NA

Total Drilled Depth: 18 ft bgs  
Diameter of Boring: 2.25 inches  
Drill Date: 10/16/18  
Drilled By: Cascade Drilling  
Drill Method: Geoprobe





Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete
					2		BROWNISH GRAY SAND WITH SILT (SP), moist, fine to medium, few fines, no odor
	2.8	3.9	B-257-3	30	4		BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fines, few to little subrounded to rounded fine gravel, low plasticity
	2.5		B-257-5*		6		GRAY SANDY SILT (ML), wet, some fine sand, trace medium sand, grades into unit below, no odor
	1.4				8		BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), wet to moist, fine to medium, little to some fines, few to little subangular to subrounded fine to coarse gravel, trace coarse sand, fines increase with depth, gravel is not homogeneous
	3.9		B-257-8	48	10		
	34.4		B-257-10*		12		
	16.6				14		at 13 feet: moist
	57.8	4.7	B-257-15*	60	16		
	27.8				18		
13.4			60	20		at 20 feet: faint fertilizer-like odor	
19.2		B-257-20*					

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 25 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/17/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	13.9		36		22		GRAY SILTY SAND (SM), moist, fine to medium, some fines, trace subrounded to rounded fine gravel
	10.9				24		
					26		Bottom of borehole at 25 ft bgs Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					28		
					30		
					32		
					34		
					36		
					38		
					40		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

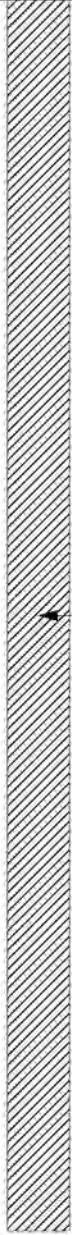











Total Drilled Depth: 25 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/17/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe







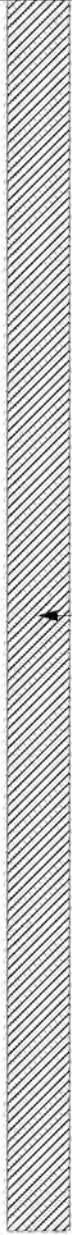










Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete
					2		BROWNISH GRAY SILTY SAND (SM), moist, fine to medium, little to some fines, trace coarse sand, trace fine to coarse subangular to subrounded gravel, fines increase with depth, low plasticity
	0.8	B-259-2.5*	38		4		
	1.3	B-259-5*			6		BROWNISH GRAY SILTY SAND WITH GRAVEL (SM), moist to wet, fine to coarse, few to little fines, some subangular to subrounded fine to coarse gravel
	1.1	B-259-8	34		8		at 8.5 feet: broken rock in sampler
	2.7	B-259-10*			10		BROWNISH GRAY SILTY SAND (SM), moist to wet, fine to medium, some fines, trace subangular to subrounded fine gravel
	3.7				12		at 10 feet: orange mottling
	1.8		48		14		at 13 feet: 3-inch thick layer of subrounded to rounded fine to coarse gravel
	33.2	B-259-15*			16		at 14 feet: thin silt lenses
	9.8		20		18		INTERBEDDED GRAY AND BROWN SILTY SAND AND SAND (SMM/SP), wet, fine to coarse, few to some fines, trace fine subangular to subrounded gravel
37.9	B-259-20*			20		Bottom of borehole at 20 ft bgs	
					22		Boring backfilled with hydrated bentonite chips
					24		* sample submitted for laboratory analysis

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 20 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/17/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



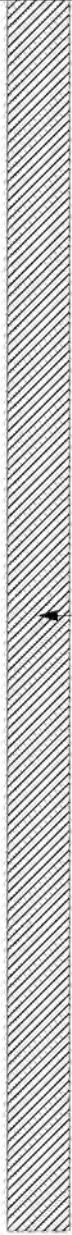



Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
 <p>Bentonite Chips</p>					0		Concrete
					2		LIGHT BROWN SILTY SAND (SM), moist to wet, fine to coarse, little fines, little subangular to subrounded fine to coarse gravel, FILL
	1.1	B-260-3	31		4		
	2.6	B-260-5*			6		
	2.0				7		at 7 feet: grayish brown, wet
	2.2	B-260-8*	35		8		
	2.9	B-260-10*			9		at 9 feet: orange mottling
	4.2				12		
	6.8		44		14		at 12 feet: 0.5-inch clay lenses
	32.3	B-260-15*			14		at 14 feet: sand lenses
28.1	B-260-20*	24		18			
					20		LIGHT BROWN SILTY SAND (SM), moist, fine to coarse, little to some fines, trace fine subangular gravel, no odor
					20		Bottom of borehole at 20 ft bgs
					22		Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					24		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 20 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/17/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



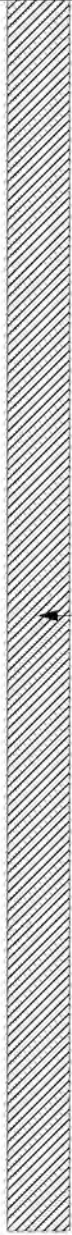













Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete
					2		LIGHT BROWN SILTY SAND (SM), moist, fine to medium, little fines, trace coarse, trace subrounded fine gravel (FILL)
	1.7	B-261-3*	36		4		LIGHT BROWN SILTY GRAVEL WITH SAND (GM), moist, subangular to subrounded fine to coarse gravel, some fine to coarse sand, little fines, strong chemical odor, fines have low plasticity
	14500	B-261-5*			6		at 5 ft bgs: Color-Tec soil reading >1587 mg/kg
	54.8		40		8		LIGHT BROWN SILTY SAND WITH GRAVEL (SM), wet, fine to coarse sand, little fines, few to little subangular to subrounded fine to coarse gravel, coarsening with depth
	41.7	B-261-8*			10		at 8 feet: orange mottling
	135.7	B-261-10*			12		at 10 ft bgs: Color-Tec soil reading 16 mg/kg
	260.0		60		14		LIGHT BROWN SILTY SAND (SM), wet, fine to coarse, little fines, trace subrounded to subangular fine to coarse gravel, no odor
	37.0				16		GRAY SILTY SAND (SM), moist, fine to medium, some fines, trace coarse, trace subangular to subrounded fine to coarse gravel, very consolidated, no odor
	20.9	B-261-15*			18		at 15 ft bgs: Color-Tec soil reading 1.7 mg/kg
77.8		30		20		at 20 ft bgs: Color-Tec soil reading 21.1 mg/kg	
128.7	B-261-20*			20		Bottom of boring at 20 ft bgs (Refusal)	
					22		Boring backfilled with hydrated bentonite chips
					24		* sample submitted for laboratory analysis

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 20 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/17/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe














Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete (3 inches)
					2		LIGHT BROWN SILTY SAND (SM), wet, fine to medium, some fines, trace subangular to subrounded fine gravel
	8.8	B-262A-5*			4		
	3.2	B-262A-8*	24		8		
	1.8	B-262A-10*			10		at 9.5 feet: 2-inch long piece of burnt wood
	1.6		24		10.5		at 10.5 feet: 6-inch thick fine to medium sand lens
	3.8				12		LIGHT BROWN SILTY SAND (SM), moist, fine, some fines, trace medium sand, trace subangular to subrounded fine to coarse gravel, occasional lenses of medium sand
	5.5		30		14		
	14.6	B-262A-15*			16		GRAY SAND WITH SILT (SP), wet, fine to coarse, few to little fines, trace subangular to subrounded fine to coarse gravel
	10.9		20		18		GRAY SILTY SAND (SM), wet, fine to medium, some fines, little subrounded to subangular fine to coarse gravel
16.2	B-262A-20*			20		GRAY SAND WITH SILT (SP), wet, fine to medium, little fines	
					20		Bottom of borehole at 20 ft bgs
					22		Boring backfilled with hydrated bentonite chips
					24		* sample submitted for laboratory analysis

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 20 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/17/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



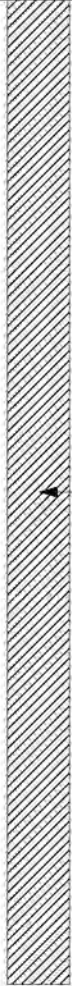





Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
 <p>Bentonite Chips</p>					0		Concrete
					2		GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to coarse, some fines, few subangular to subrounded fine to coarse gravel, grades coarser with depth
	32.2	B-263-3*	22		4		
	17.7	B-263-5*			6		
	110.1	B-263-8*	32		8		GRAY SILTY SAND WITH GRAVEL (sm), moist to wet, fine to coarse, some fines, little subangular to subrounded gravel, trace coarse sand, faint odor
	89.0				10		at 10 feet: Color-Tec soil reading <0.030 mg/kg
	113.0	B-263-10*			12		BROWN SILTY SAND (SM), moist, fine to coarse, some fines, trace to few subangular to subrounded fine to coarse gravel, grading finer overall with depth
	94.0				14		GRAY TO LIGHT BROWN SILTY SAND (SM), moist to wet, fine to coarse, some fines, few subangular to subrounded fine to coarse gravel
	16.7		60		16		at 12 feet: interbedded GRAY more silty material, 2-inch thick gravel lenses
	34.4	B-263-15*			18		GRAY SILTY SAND (SM), moist, fine to medium, some fines
					20		Bottom of boring at 18 feet bgs (Refusal).
					22		Boring backfilled with hydrated bentonite chips
					24		* sample submitted for laboratory analysis

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Notes: NA

Total Drilled Depth: 18 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/18/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe




Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
 <p>Bentonite Chips</p>					0		Concrete (Hand cleared to 3 feet, soil not observed)	
	52.2 308.0	B-264-3*	24		4		INTERBEDDED GRAY AND LGHT BROWN SILTY SAND AND SAND (SM/SP), moist to wet, fine to coarse, few to some fines, trace to few subangular to subrounded fine to coarse gravel, fining up sequences, grading coarser with depth	
	75.4 111.9	B-264-5*			6			
	117.9	B-264-8*	60		8		at 8 feet: Color-Tec soil reading <0.145 mg/kg	
	165.2	B-264-10*			10		at 10 feet: Color-Tec soil reading <0.38 mg/kg	
		B-264-14	20		12		at 14 feet: Color-Tec soil reading <0.38 mg/kg	
	144.5	B-264-15*			14		at 15 feet: Color-Tec soil reading <0.145 mg/kg	
	116.8	B-264-16*	12		16		GRAY SILTY SAND (SM), wet, fine to medium, some fines, trace subangular to subrounded fine gravel at 16 feet: Color-Tec soil reading <0.003 mg/kg	
								Bottom of boring at 16 ft bgs (Refusal)
								Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 16 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/18/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe











Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
 <p>Bentonite Chips</p>					0	Concrete	
						Fill	
						Concrete	
	120.7	B-265-3*	20		4		INTERBEDDED GRAY SILTY SAND AND SAND (SM/SP), wet, fine to coarse, few to some fines, little subangular to subrounded fine to coarse gravel, fining up sequences at 4 feet: faint chemical odor
	2650	B-265-5*			6		at 5 feet: Color-Tec soil reading 2 mg/kg
	178.4				8		at 8 feet: Color-Tec soil reading 1 mg/kg
	336	B-265-8*	40		10		
	87.8	B-265-10*			12		at 13 feet: Color-Tec soil reading 2 mg/kg
	1398 1333		23		14		
101.4	B-265-15			16		GRAY SILTY SAND (SM), fine to medium, some fines, trace subangular to subrounded fine gravel	
134.8				18		at 17.5 feet: Color-Tec soil reading 0.19 mg/kg	
117.8	B-265-17.5	30		18		Bottom of boring at 17.5 ft bgs (Refusal)	
							Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					20		
					22		
					24		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 17.5 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/18/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe





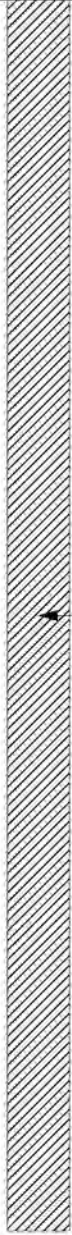




Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete
					1		Fill
					2		Concrete
	5.7	B-266-3	24		4		GRAY SILTY SAND WITH GRAVEL (SM), moist, fine to coarse, some fines, little to some subangular to subrounded fine to coarse gravel, grades coarser with depth
	7.5	B-266-5*			4.5		at 4.5 feet: red-orange mottling
	1.7				6		
	1.7	B-266-8*	48		8		GRAY GRAVEL WITH SAND (GP), moist, subrounded to rounded fine to coarse gravel, fine to coarse sand, little fines
	4.8	B-266-10*			10		INTERBEDDED GRAY SILTY SAND AND SAND (SM/SP), wet, fine to coarse, few to some fines, few to little subangular to subrounded fine to coarse gravel, fining up sequences
	2.4		28		14		at 14 feet: red-orange mottling, color transitions to gray brown
	73.4	B-266-15*			16		GRAY BROWN SILTY SAND WITH GRAVEL (SM), wet, fine to coarse, some fines, little subangular to subrounded fine to coarse gravel
19.1		24		18			
18.6	B-266-20*			20		Bottom of borehole at 20 ft bgs	
							Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					22		
					24		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 20 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/18/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe





Boring Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					0		Concrete
					0		GRAYISH BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to coarse, some fines, little subangular to subrounded fine to coarse gravel (FILL)
	1.0	B-267-2.5*	27		2		
	0.9				4		at 3.5 feet: mottling
	1.1	B-267-5*			6		
	2.3				6		INTERBEDDED GRAY AND BROWN SILTY SAND AND SAND (SM/SP), wet, fine to medium, few to some fines, trace coarse sand, trace subangular to subrounded fine to coarse gravel, orange mottling
	6.4	B-267-8*	39		8		
	4.4	B-267-10*			10		
	4.0				12		
	15.3				14		
10.1	B-267-15*			14		GRAY SILTY SAND (SM), moist, fine to medium, some fines, trace coarse sand, trace subangular to subrounded fine to coarse gravel, occasional sand lenses	
35.2	B-267-20*			16			
					18		
					20		Bottom of borehole at 20 ft bgs
					20		Boring backfilled with hydrated bentonite chips * sample submitted for laboratory analysis
					22		
					24		

Project: Former American Linen  
 Project Number: 1413.001.05.201  
 Site Location: Seattle, WA  
 Logged By: R. McLaughlin  
 Notes: NA

Total Drilled Depth: 20 ft bgs  
 Diameter of Boring: 2.25 inches  
 Drill Date: 10/18/18  
 Drilled By: Cascade Drilling  
 Drill Method: Geoprobe



Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
<p>Concrete</p> <p>SCH 40 PVC Casing</p> <p>Bentonite Chips</p>					0		4-inch Concrete	
					2		BLACK SILT WITH GRAVEL (ML); wet, some subangular to subrounded gravel up to 0.5-inch diameter, few fine to coarse sand	
					4			
					6			
					8			at 8.5 feet: brick fragments
	1.2		120		10			LIGHT GRAY-TAN SANDY SILT (ML); moist, hard, some fine to coarse sand, some orange mottling, trace subangular to subrounded gravel up to 0.25-inch diameter
					12			BLACK ORGANIC SOIL (OL); wet, wood fragments in fine matrix
	0.7				14			GRAY SILTY SAND (SM); moist, loose, fine to coarse, some fines, trace subangular to subrounded gravel up to 1-inch diameter
					16			
					18			GRAY SILTY SAND (SM); moist, loose, fine to coarse, little fines, trace subangular to subrounded gravel up to 3-inch diameter, abundant orange mottling
	1.7				20			
					22			
	7.8		120		24			GRAY SILTY SAND (SM); moist, very dense, fine to coarse sand, some fines, few subangular to subrounded gravel up to 2-inch diameter
					26			
				28			at 28 feet: 6-inch layer of SILTY SAND WITH SOME GRAVEL	
2.4				30			at 29 feet: 6-inch of GRAY SILTY SAND, fine to medium, little fines, trace gravel, no mottling	
9.0				32			GRAY SILTY SAND (SM); moist, very dense, fine to medium, some fines, few subangular to subrounded gravel up to 2-inch diameter	
				34				
8.8				36			GRAY SANDY SILT (ML); moist, very hard, some fine to medium sand, trace subangular to subrounded gravel up to 1-inch diameter	
54.7				38				
				40				

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: SEM  
 Ecology Well Tag: BKH-255

Total Drilled Depth: 110.5  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110.5 feet: 6 inches  
 Drill Date: 01/28/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic



Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
<p>Bentonite Chips</p> <p>SCH 40 PVC Casing</p>	7.2						
	12.9				42		GRAY SILTY SAND (SM); moist, very dense, fine to coarse, little fines, few subangular to subrounded gravel up to 0.75-inch diameter
				360	44		
					46		
					48		at 47 feet: 6-inch horizon of SILTY SAND with little fines
	218.2	MW-162-48			48		
					50		GRAY SANDY SILT (ML); moist, very hard, some fine to medium sand, trace subangular to subrounded gravel up to 0.75-inch diameter
	410.2	MW-162-50			50		
					52		GRAY SILTY SAND (SM); moist, very dense, fine to medium sand, little fines, few subangular to subrounded gravel up to 1-inch diameter, homogenous
	58.9	B-930-50 (DUP)			52		
					54		
					56		
					58		at 57 feet: wet
	47.4				58		
					60		
				62			
23.4				62			
				64		GRAY SANDY SILT (ML); moist, hard, some fine to medium sand, trace subangular to subrounded gravel up to 0.5-inch diameter, homogenous	
2.7				64			
				66			
285.5	MW-162-67			66			
				68			
				70			
397.1	MW-162-70		240	70			
				72			
203.8	MW-162-72			72			
				74			
				76			
76.3				76			
				78			
59.4				78		GRAY SILTY SAND (SM); moist, dense, fine to medium, some fines, few subangular to subrounded gravel up to 1-inch diameter	
				80			

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: SEM  
 Ecology Well Tag: BKH-255

Total Drilled Depth: 110.5  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110.5 feet: 6 inches  
 Drill Date: 01/28/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic





Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	40.9	MW-162-80			82		GRAY SAND (SP); moist, medium dense, fine to medium, few fines
	1.1				84		
	1.3	MW-162-85	120		86		GRAY SANDY SILT (ML); moist, hard, some fine to medium sand, trace gravel up to 3-inch diameter
	1.4				88		
	2.7	MW-162-90			90		GRAY SILTY SAND (SM); moist, hard, fine to medium, little fines, trace subangular to subrounded gravel up to 0.5-inch diameter
	8.8				92		at 90 feet: 6 feet of bentonite added and hydrated to step-case the boring
	7.8	MW-162-95			94		
	3.7				96		GRAY SILTY SAND (SM); moist, loose, fine to coarse, little fines, few subangular to subrounded gravel up to 3-inch diameter
	3.9	MW-162-100	120		98		GRAY SAND WITH GRAVEL (SP); moist, loose, fine to coarse, few fines, some subangular to subrounded gravel up to 2-inch diameter
	0.2				100		
	2.0	MW-162-105			102		at 102 feet: 6-inch layer of SILTY SAND with trace gravel
	2.5				104		
	2.4	MW-162-110			106		
					108		
				110			
				112		Bottom of Boring at 110.5 feet Well Completion Details: well constructed with 2-inch Schedule 40 PVC pipe and 0.020-inch machine slotted screen with #2/12 Lapis Lustre Sand. Total Well Depth: 109.4 feet. Well Sump/Endcap: 109 to 109.4 feet. Well Screen: 99.0 to 109.0 feet. Filter Pack: 98 to 110.5 feet. Well Seal: 2.3 to 98 feet (hydrated bentonite chips). Surface Seal: 0 to 2.3 feet (concrete). Well Monument: flush with grade steel monument.	
				114			
				116			
				118			
				120			

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: SEM  
 Ecology Well Tag: BKH-255

Total Drilled Depth: 110.5  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110.5 feet: 6 inches  
 Drill Date: 01/28/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic





Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Concrete	6.3				0		4-inches concrete
					2		BROWN SILTY SAND (SM / FILL); medium sand, homogenous, trace gravel
SCH 40 PVC Casing	2.2				4		GRAY SILTY SAND (SM); moist-wet, fine to coarse, some fines, little subangular to subrounded gravel up to 2-inches in diameter
					6		
Bentonite Chips	2.5		360		8		at 21 feet: increasing sand
					10		
	2.7				12		at 30-45 feet: samples hot to touch
					14		
	10.3		180		16		GRAY SANDY SILT (ML); moist, firm, some fine to medium sand, few subangular to subrounded gravel up to 1.5-inches diameter
					18		
					20		
					22		
					24		
					26		
					28		
					30		
					32		
					34		
					36		
					38		
					40		

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: SEM  
 Ecology Well Tag: BKH-257

Total Drilled Depth: 110.5 feet bgs  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110 feet: 6 inches  
 Drill Date: 1/29/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic



Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description	
<p>SCH 40 PVC Casing</p> <p>Bentonite Chips</p>	1.7				42		at 43 feet: fine to coarse sand	
	21.9				44		GRAY SILT WITH SAND (ML); moist, hard, little fine to medium sand, trace subangular to subrounded gravel less than 1-inch diameter, trace coarse sand	
	288.4	MW-163-47			46			
	256.2	MW-163-50			50			
				300		52		GRAY SILTY SAND (SM); moist, dense, fine to medium sand, some fines, trace subangular to subrounded gravel greater than 1-inch diameter, trace coarse sand
	344.3	MW-163-55			54			
	191.5				56			GRAY SANDY SILT (ML); moist, hard, some fine to medium sand, trace gravel
						58		
			MW-163-60			60		
	4.8					62		
	5.9					64		at 65 feet: increasing sand
	4.3					66		
	4.0					68		
	3.2					70		
						72		GRAY SANDY SILT (ML); moist, very dense, little fine to medium sand
1.6					74			
2.2				360	76		GRAY SILTY SAND (SM); moist, hard, fine to medium sand, some fines, trace subangular to subrounded gravel up to 1-inch diameter	
					78		GRAY TO GRAYISH GREEN SILTY SAND (SM); moist, loose, fine to coarse, little fines, trace subangular to subrounded gravel up to 1-inch diameter	
					80			

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: SEM  
 Ecology Well Tag: BKH-257

Total Drilled Depth: 110.5 feet bgs  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110 feet: 6 inches  
 Drill Date: 1/29/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic





Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
	5.5	MW-163-80			82		
	3.0				84		
	2.1	MW-163-85			86		GRAY TO GRAYISH GREEN SAND WITH SILT (SM-SP); moist, loose, fine to coarse, few fines
	6.4				88		
	7.1	MW-163-90			90		at 90 feet: 6 feet of bentonite (2 bags) added and hydrated to step-case the boring
	21.9				92		at 92 feet: transitions to GRAY
					94		at 93 feet: 12-inches of GRAY SILTY SAND (SM); moise, loose, fine to coarse sand, little fines
	56.1	MW-163-95			96		
	4.1				98		
	2.9	MW-163-100	246		100		
2.4				102		GRAY SAND WITH GRAVEL (SP); moist, loose, fine to coarse, some subangular to subrounded gravel up to 2-inches in diameter, few fines	
2.5	MW-163-105			104			
2.7				106			
2.6	MW-163-110			108		at 109 feet: 6-inch lens of GRAY GRAVEL WITH SAND (GP)	
				110			
				112			Bottom of Boring at 110.5 feet.
				114			Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and 0.020-inch machine slotted screen with #2/12 Lapis Lustre Sand. Total Well Depth: 110.3 feet. Well Sump/Endcap: 110.2 to 110.5 feet. Well Screen: 100.2 to 110.2 feet. Filter Pack: 98 to 110.5 feet. Well Seal: 2.3 to 98 feet (hydrated bentonite chips). Surface Seal: 0 to 2.3 feet (concrete). Well Monument: flush with grade steel monument.
				116			
				118			
				120			

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: SEM  
 Ecology Well Tag: BKH-257

Total Drilled Depth: 110.5 feet bgs  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110 feet: 6 inches  
 Drill Date: 1/29/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic





Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Concrete					0		Gravel/Broken Concrete
					2		No recovery 0.5 to 5 feet
Sch. 40 PVC Casing	6.0		42		6		GRAYISH BROWN SILTY SAND WITH GRAVEL (SM), moist, fine to medium, some fines, little to some subangular to subrounded fine to coarse gravel
	2.0				8		
	19.6				10		
	0.9				12		
	2.5				14		
	1.3				16		
	2.0				18		
	3.1				20		GRAY SILT WITH SAND (ML), moist, little fine to medium sand, few subangular to rounded fine to coarse gravel
	6.0				22		
	6.7				24		
6.0				26			
Bentonite Chips	4.1		216		20		GRAY SILTY SAND (SM), moist, fine to coarse, some fines, few subrounded to rounded fine to coarse gravel
	5.0				22		
	1.2				24		
	2.2				26		
	1.7				28		at 27 feet: gravel proportion increases
	9.0				30		GRAY SANDY SILT (ML), moist, some fine to medium sand, few subrounded to rounded fine to coarse gravel, material is very consolidated
	7.0				32		GRAY SILTY SAND (SM), moist, fine to medium, some fines, few subrounded to rounded fine gravel
	5.9				34		GRAY SILT WITH SAND (ML), moist, few fine to medium sand, trace to few subrounded to rounded fine to coarse gravel
	10.8				36		
	6.1				38		
1.1			120		40		
3.0							
5.9							
1.7							
4.3							
3.9							
6.5							
5.3							
6.3							
2.5							
2.7							
2.3							
8							
8.6							

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Ecology Well Tag: BKH-256

Total Drilled Depth: 111 feet bgs  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110 feet: 6 inches  
 Drill Date: 01/24/2019 - 01/25/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic



Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
Bentonite Chips	1.8	MW-164-47	102		42	[Graphic Log]	GRAY SILTY SAND (SM), moist, fine to coarse, some fines, few subangular to rounded fine to coarse gravel
	1.7				44		
	2.5				46		at 45 feet: trace gravel
	12.4				48		at 47 feet: material feels looser, strong chemical-like odor, color-tec reading >4762.5 mg/kg
	12				50		at 50 feet bgs: color-tec reading 1 mg/kg
	1822	MW-164-50	102		52	[Graphic Log]	GRAY SANDY SILT (ML), moist, some fine to coarse sand, trace subrounded to rounded fine to coarse gravel
	383.4				54		
	56.8				56		
	10.3				58		
	27.2				60		
Sch. 40 PVC Casing	10.2	MW-164-80	112		62	[Graphic Log]	GRAY SILTY SAND (SM), moist, fine to coarse, some fines, trace subrounded to rounded fine to coarse gravel
	6				64		GRAY SANDY SILT (ML), moist, little to some fine to medium sand, trace subrounded to rounded fine to coarse gravel
	7.2				66		
	6.4				68		
	9.7				70		GRAY SANDY SILT (ML), moist, some fine to medium sand
	10.5	120			72	[Graphic Log]	
	17.2				74		
	7.3				76		at 76 feet: trace subrounded to rounded fine to coarse gravel
	6.6				78		GRAY SILTY SAND (SM), moist, fine to coarse, little to some fines, trace to few subrounded to rounded fine to coarse gravel
	4.5				80		at 79 feet bgs: rounded cobbles up to 4-inch diameter

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Ecology Well Tag: BKH-256

Total Drilled Depth: 111 feet bgs  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110 feet: 6 inches  
 Drill Date: 01/24/2019 - 01/25/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic





Well Completion	PID (PPM)	Sample ID	Sample Recovery (in)	Sample Interval	Depth (Feet)	Graphic Log	Lithologic Description
					82		
				42	84		GRAY SILTY SAND WITH GRAVEL (SM), wet, fine to coarse, some fines, some subangular to rounded fine to coarse gravel
	4.7	MW-164-87			86		
	3.5				88		GRAY SILTY SAND (SM), wet, fine to coarse, some fines
	8.1	MW-164-90			90		at 90 feet: 6 feet of bentonite (2 bags) added and hydrated to step-case the boring
	10.1				92		
	8				94		GRAY SAND WITH SILT (SP), wet, fine to coarse, few fines
	15.2				94		at 95 feet bgs: color-tec reading <0.003 mg/kg
	44.1	MW-164-95			96		GRAY SILTY SAND (SM), moist, fine to medium, little to some fines, trace subangular to subrounded fine gravel
	15.3				98		
	30.3				100		
11.2				100			
9.8			220		102		
3.2	MW-164-100				102		
6					104		GRAY SILTY GRAVEL WITH SAND (GM), wet, subangular to subrounded fine to coarse gravel, little to some fine to coarse sand, little to some fines
7.8					106		
7					108		GRAY SILTY SAND WITH GRAVEL (SM), wet, fine to coarse, some fines, little subangular to subrounded fine to coarse gravel
3.1	MW-164-105				110		GRAY SILTY SAND (SM), wet, fine to coarse, some fines, few subangular to subrounded fine gravel
8.3					110		at 110 feet: color-tec reading <0.003 mg/kg
8.4	MW-164-110				112		Bottom of Boring: 111 feet.
4.2	B-929-120				114		Well Completion Details: Well constructed with 2-inch Schedule 40 PVC pipe and a 0.020-inch machine slotted screen with #2/12 Lapis Lustre Sand. Total Well Depth: 110 feet. Well Sump/Endcap: 109.7 to 110 feet. Well Screen: 99.7 to 109.7 feet. Filter Pack: 98 to 111 feet. Well Seal: 3 to 98 feet (hydrated bentonite chips). Surface Seal: 0 to 3 feet (concrete). Well Monument: Flush with grade steel monument.

Project: Former American Linen Supply  
 Project Number: 1413.001.02.304  
 Site Location: Seattle, WA  
 Logged By: RTM  
 Ecology Well Tag: BKH-256

Total Drilled Depth: 111 feet bgs  
 Diameter of Boring: 0-90 feet: 8 inches, 90-110 feet: 6 inches  
 Drill Date: 01/24/2019 - 01/25/2019  
 Drilled By: Cascade Drilling  
 Drill Method: Sonic



**APPENDIX C**

**TABLES SUMMARIZING INVESTIGATION RESULTS**

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**APPENDIX C TABLES**

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Table C-1	Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds
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Table C-15	Estimated Hydraulic Conductivity Based on Grain Size Analyses

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Levels							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
<b>On Property</b>																			
B-1	B-1-13	6/23/00	TR	ARI	13	27.00	-	-	-	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U	<b>0.0021</b>	0.0012 U	0.0012 U	
B-2	B-2-6.5	6/23/00	TR	ARI	6.5	33.50	-	-	-	0.0011 U	0.0011 U	0.0011 U	0.0022 U	<b>0.017</b>	<b>0.0020</b>	<b>0.011</b>	0.0011 U	0.0011 U	
	B-2-11	6/23/00	TR	ARI	11	29.00	-	-	-	0.0012 U	0.0012 U	0.0012 U	0.0024 U	<b>0.92</b>	<b>0.085</b>	<b>0.64</b>	<b>0.0037</b>	0.0012 U	
	B-2-16	6/23/00	TR	ARI	16	24.00	-	-	-	0.0011 U	0.0011 U	0.0011 U	0.0022 U	<b>0.049</b>	<b>0.0011</b>	<b>0.0075</b>	0.0011 U	0.0011 U	
B-3	B-3-12	6/23/00	TR	ARI	12	28.00	-	-	-	0.0013 U	0.0013 U	0.0013 U	0.0026 U	0.0013 U	0.0013 U	<b>0.0016</b>	0.0013 U	0.0013 U	
B-5	B-5-10	6/23/00	TR	ARI	10	30.00	-	-	-	0.0011 U	0.0011 U	0.0011 U	0.0022 U	<b>0.0051</b>	0.0011 U	<b>0.0021</b>	0.0011 U	0.0011 U	
	B-5-11.5	6/23/00	TR	ARI	11.5	28.50	-	-	-	0.0012 U	0.0012 U	0.0012 U	0.0024 U	<b>0.12</b>	<b>0.0088</b>	<b>0.013</b>	0.0012 U	0.0012 U	
B-6	B-6-6	6/24/00	TR	ARI	6	34.00	-	-	-	-	-	-	-	<b>0.0085</b>	<b>0.0014</b>	<b>0.0021</b>	0.0012 U	0.0012 U	
	B-6-12	6/24/00	TR	ARI	12	28.00	-	-	-	-	-	-	-	<b>0.0067</b>	<b>0.0026</b>	<b>0.0047</b>	0.0012 U	0.0012 U	
	B-6-18	6/24/00	TR	ARI	18	22.00	-	-	-	-	-	-	-	<b>2.3</b>	<b>0.0078</b>	<b>0.0031</b>	0.0013 U	0.0013 U	
B-7	B-7-6	6/24/00	TR	<b>ARI</b>	6	34.00	-	-	-	-	-	-	-	<b>0.031</b>	<b>0.0029</b>	<b>0.0052</b>	0.0012 U	0.0012 U	
B-8	B-8-4	6/24/00	TR	ARI	4	36.00	-	-	-	-	-	-	-	<b>0.092</b>	<b>0.0006</b>	<b>0.0019</b>	0.0011 U	0.0011 U	
	B-8-8	6/24/00	TR	ARI	8	32.00	-	-	-	-	-	-	-	<b>1.4</b>	<b>0.017</b>	<b>0.021</b>	0.0011 U	0.0011 U	
B-9	B-9-4	6/24/00	TR	ARI	4	36.00	-	-	-	-	-	-	-	<b>170</b>	1.6 U	1.6 U	1.6 U	1.6 U	
	B-9-8	6/24/00	TR	ARI	8	32.00	-	-	-	-	-	-	-	<b>4.8</b>	<b>0.13</b>	<b>0.21</b>	<b>0.0022</b>	0.0012 U	
B-10	B-10-12	6/24/00	TR	ARI	12	28.00	-	-	-	-	-	-	-	<b>0.017</b>	<b>0.0014</b>	<b>0.0061</b>	0.0011 U	0.0011 U	
B-201	G-201-10	6/19/17	PES	ESC	10	29.80	-	-	-	0.00120 U	0.00601 U	0.00120 U	0.00361 U	<b>0.0679</b>	<b>0.00638</b>	<b>0.00298</b>	0.00120 U	0.00120 U	
	G-201-30	6/19/17	PES	ESC	30	9.80	-	-	-	0.00113 U	0.00567 U	0.00113 U	0.00340 U	<b>0.00264</b>	0.00113 U	<b>0.0784</b>	<b>0.00761</b>	0.00113 U	
	G-201-35	6/19/17	PES	ESC	35	4.80	-	-	-	0.00116 U	0.00580 U	0.00116 U	0.00348 U	<b>0.00471</b>	<b>0.00134</b>	<b>0.0149</b>	<b>0.00200</b>	0.00116 U	
B-202	G-202-5	6/19/17	PES	ESC	5	34.17	0.119 U	-	-	0.00119 U	0.00595 U	0.00119 U	0.00357 U	<b>0.108</b>	<b>0.00580</b>	0.00119 U	0.00119 U	0.00119 U	
	G-202-20	6/19/17	PES	ESC	20	19.17	-	-	-	0.00119 U	0.00594 U	0.00119 U	0.00356 U	<b>0.0632</b>	<b>0.00503</b>	0.00119 U	0.00119 U	0.00119 U	
	G-202-50	6/19/17	PES	ESC	50	-10.83	-	-	-	0.00132 U	0.00662 U	0.00132 U	0.00397 U	<b>0.00163</b>	0.00132 U	0.00132 U	0.00132 U	0.00132 U	
B-203	G-203-5	6/20/17	PES	ESC	5	34.18	<b>168</b>	-	-	<b>0.0358</b>	<b>0.0272</b>	<b>0.0745</b>	<b>0.0494</b>	0.00115 U	0.00115 U	0.00115 U	0.00115 U	0.00115 U	
	G-203-25	6/20/17	PES	ESC	25	14.18	<b>0.174</b>	-	-	0.00117 U	0.00586 U	0.00117 U	0.00351 U	<b>0.00241</b>	0.00117 U	0.00117 U	0.00117 U	0.00117 U	
	G-203-40	6/20/17	PES	ESC	40	-0.82	2.33 U	-	-	<b>0.00561</b>	0.00561 U	<b>0.00299</b>	<b>0.00719</b>	<b>0.910</b>	<b>0.0674</b>	<b>0.168</b>	<b>0.00197</b>	<b>0.0438</b>	
	G-203-50	6/20/17	PES	ESC	50	-10.82	0.216 U	-	-	0.00112 U	0.00560 U	0.00112 U	0.00336 U	<b>0.903</b>	<b>0.0481</b>	<b>0.136</b>	0.00112 U	<b>0.00337</b>	
	G-203-80	6/20/17	PES	ESC	80	-40.82	-	-	-	0.00110 U	0.00548 U	0.00110 U	0.00329 U	0.00110 U	0.00110 U	0.00110 U	0.00110 U	0.00110 U	
B-204	G-204-20	6/20/17	PES	ESC	20	19.80	-	-	-	0.00116 U	0.00579 U	0.00116 U	0.00347 U	0.00116 U	0.00116 U	0.00116 U	0.00116 U	0.00116 U	
	G-204-40	6/20/17	PES	ESC	40	-0.20	-	-	-	0.00113 U	0.00563 U	0.00113 U	0.00338 U	<b>0.0318</b>	<b>0.00545</b>	<b>2.60</b>	<b>0.00485</b>	<b>0.981</b>	
	G-204-45	6/20/17	PES	ESC	45	-5.20	-	-	-	0.00121 U	0.00606 U	0.00121 U	0.00364 U	<b>0.0315</b>	<b>0.0101</b>	<b>16.7</b>	<b>0.00714</b>	<b>2.94</b>	
B-205	B-205-10	8/30/17	PES	ESC	10	30.28	<b>274 q</b>	-	-	<b>0.304</b>	<b>0.372 J</b>	<b>4.74</b>	<b>6.02</b>	0.0333 U	0.0336 U	0.0283 U	0.0318 U	0.0351 U	
	B-205-55	8/30/17	PES	ESC	55	-14.72	0.0396 U	-	-	0.000315 U	0.000507 U	0.000347 U	0.000815 U	<b>0.0625</b>	<b>0.00923</b>	<b>0.0155</b>	0.000308 U	<b>0.00562</b>	
	B-205-65	8/30/17	PES	ESC	65	-24.72	0.0359 U	-	-	0.000286 U	0.000460 U	0.000314 U	0.000739 U	<b>0.0296</b>	<b>0.00582</b>	<b>0.00390</b>	0.000280 U	<b>0.000378 J</b>	
	B-205-75	8/30/17	PES	ESC	75	-34.72	-	-	-	0.000289 U	0.000465 U	0.000318 U	0.000748 U	<b>0.00308 J</b>	<b>0.000399 J</b>	<b>0.000585 J</b>	0.000283 U	0.000312 U	
	B-904-50	8/30/17	PES	ESC	75 (dup)	-34.72	-	-	-	0.000290 U	0.000466 U	0.000319 U	0.000749 U	<b>0.00954 J</b>	<b>0.00234 J</b>	<b>0.00170 J</b>	0.000283 U	0.000312 U	
B-206	B-206-15	8/14/17	PES	ESC	15	24.10	<b>0.243</b>	-	-	0.00777 U	0.0124 U	0.00854 U	0.0200 U	<b>0.0715</b>	<b>0.00831 J</b>	<b>0.306</b>	<b>0.00825 J</b>	0.00838 U	
	B-206-30	8/14/17	PES	ESC	30	9.10	<b>1.32 J</b>	-	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	<b>0.0522</b>	<b>0.0289</b>	<b>12.6</b>	<b>0.00230</b>	<b>0.124</b>	
	B-206-40	8/14/17	PES	ESC	40	-0.90	0.0358 U	-	-	0.000285 U	0.000459 U	0.000314 U	0.000738 U	<b>0.000306 J</b>	0.000295 U	<b>0.00879 J</b>	0.000279 U	0.000308 U	
	B-206-49	8/14/17	PES	ESC	49	-9.90	<b>4.54 J</b>	-	-	0.000308 U	0.000494 U	0.000338 U	0.000795 U	<b>17.2</b>	<b>2.28</b>	<b>6.41</b>	<b>0.0132</b>	<b>0.154</b>	
	B-206-52	8/14/17	PES	ESC	52	-12.90	0.0370 U	-	-	0.000295 U	0.000474 U	0.000324 U	0.000762 U	<b>0.0483</b>	<b>0.00790 J</b>	0.00642 U	0.000288 U	<b>0.000383 J</b>	
	B-206-56	8/14/17	PES	ESC	56	-16.90	<b>1.01 J</b>	-	-	0.000297 U	0.000477 U	0.000326 U	0.000767 U	<b>9.95 J</b>	<b>2.16</b>	<b>0.140</b>	0.000290 U	<b>0.000558 J</b>	
	B-206-59	8/14/17	PES	ESC	59	-19.90	0.0353 U	-	-	0.000281 U	0.000451 U	0.000309 U	0.000726 U	<b>0.00866 J</b>	<b>0.00248</b>	<b>0.00686</b>	0.000275 U	<b>0.000368 J</b>	
	B-206-70	8/14/17	PES	ESC	70	-30.90	<b>1.10 J</b>	-	-	0.000294 U	0.000473 U	0.000324 U	0.000760 U	0.000301 UJ	0.000304 U	<b>0.00201</b>	0.000288 U	0.000317 U	
	B-206-80	8/14/17	PES	ESC	80	-40.90	<b>0.988 J</b>	-	-	0.000294 U	0.000473 U	0.000324 U	0.000761 U	<b>0.00283 J</b>	0.000304 U	<b>0.000647 J</b>	0.000288 U	<b>0.000386 J</b>	
B-207	B-207-30	8/25/17	PES	ESC	30	8.51	0.0385 U	-	-	0.00767 U	0.0123 U	0.00843 U	0.0198 U	<b>0.109</b>	<b>0.0373</b>	<b>0.0557</b>	0.00750 U	0.00827 U	
	B-207-41	8/25/17	PES	ESC	41	-2.49	<b>2.24</b>	-	-	0.000306 U	0.000491 U	0.000336 U	0.000790 U	<b>0.00152</b>	0.000316 U	<b>6.93</b>	<b>0.0224</b>	<b>0.428</b>	
	B-207-49	8/25/17	PES	ESC	49	-10.49	<b>0.727</b>	-	-	<b>0.000397 J</b>	0.000484 U	0.000331 U	0.000779 U	<b>0.0325</b>	<b>0.00590</b>	<b>2.47</b>	<b>0.00359</b>	<b>0.0261</b>	
	B-207-55	8/25/17	PES	ESC	55	-16.49	<b>2.49</b>	-	-	0.000315 U	0.000507 U	0.000347 U	0.000815 U	<b>0.0859</b>	<b>0.871</b>	<b>0.581</b>	<b>0.0212</b>	<b>0.00887</b>	
	B-207-60	8/25/17	PES	ESC	60	-21.49	0.0361 U	-	-	0.000287 U	0.000462 U	0.000316 U	0.000743 U	0.000294 U	0.00743 U	0.00626 U	0.000281 U	0.000310 U	
	B-207-70	8/25/17	PES	ESC	70	-31.49	0.968 U	-	-	0.000308 U	0.000496 U	0.000339 U	0.000797 U	0.000315 U	0.00797 U	0.00671 U	0.000301 U	0.000332 U	



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																			
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC								
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050								
B-207 (continued)	B-207-80	8/25/17	PES	ESC	80	-41.49	11.7	z	-	0.000297	U	0.000550	J	0.000327	U	0.000769	U	173	1.23	0.990	0.000601	J	0.00558			
	B-207-90	8/25/17	PES	ESC	90	-51.49	0.181		-	0.00742	U	0.0119	U	0.00815	U	0.0191	U	5.42	0.462	0.311	0.00725	U	0.00800	U		
B-208	B-208-20	8/24/17	PES	ESC	20	18.80	-		-	0.000319	U	0.000513	U	0.000351	U	0.000825	U	0.00816	U	0.000689	J	0.0257	0.000708	J	0.00270	
	B-208-35	8/24/17	PES	ESC	35	3.80	-		-	0.000294	U	0.000472	U	0.000323	U	0.000760	U	0.0109	J	0.00162	0.160	0.00656	0.00719	0.00719		
	B-901-50	8/24/17	PES	ESC	35 (dup)	3.80	-		-	0.000305	U	0.000491	U	0.000336	U	0.000789	U	0.407	J	0.00118	0.152	0.00577	0.00719	0.00719		
	B-208-50	8/24/17	PES	ESC	50	-11.20	-		-	0.000298	U	0.000479	U	0.000328	U	0.000771	U	0.00150	0.000308	U	0.0739	0.00455	0.000321	U		
	B-208-60	8/24/17	PES	ESC	60	-21.20	-		-	0.000440	J	0.000483	U	0.000331	U	0.000777	U	0.000307	U	0.000311	U	0.000685	J	0.000294	U	
	B-208-70	8/24/17	PES	ESC	70	-31.20	-		-	0.000302	U	0.000485	U	0.000332	U	0.000779	U	0.000308	U	0.000312	U	0.000316	J	0.000295	U	
	B-208-80	8/24/17	PES	ESC	80	-41.20	-		-	0.000334	U	0.000537	U	0.000367	U	0.000864	U	0.000341	U	0.000345	U	0.000291	U	0.000327	U	
B-209	B-209-20	8/25/17	PES	ESC	20	18.97	-		-	0.000314	U	0.000504	U	0.000345	U	0.000811	U	0.000424	J	0.000587	J	0.0174	0.000402	J	0.00168	
	B-209-35	8/25/17	PES	ESC	35	3.97	-		-	0.000288	U	0.000464	U	0.000317	U	0.000746	U	0.00682	0.00119	0.0508	0.000840	J	0.00915	0.00915		
	B-209-50	8/25/17	PES	ESC	50	-11.03	-		-	0.000352	U	0.000566	U	0.000387	U	0.000911	U	0.000360	U	0.000364	U	0.000307	U	0.000344	U	
	B-209-60	8/25/17	PES	ESC	60	-21.03	-		-	0.000310	U	0.000498	U	0.000341	U	0.000801	U	0.000317	U	0.000320	U	0.000270	U	0.000303	U	
	B-209-70	8/25/17	PES	ESC	70	-31.03	-		-	0.000288	U	0.000462	U	0.000316	U	0.000744	U	0.000322	J	0.000297	U	0.000323	U	0.000281	U	
	B-209-75	8/25/17	PES	ESC	75	-36.03	-		-	0.000286	U	0.000460	U	0.000315	U	0.000740	U	0.000293	U	0.000296	U	0.000249	U	0.000280	U	
	B-209-80	8/25/17	PES	ESC	80	-41.03	-		-	0.000310	U	0.000499	U	0.000341	U	0.000802	U	0.000317	U	0.000321	U	0.00106	J	0.000303	U	
B-210	B-210-6	8/21/17	PES	ESC	6	33.38	-		-	0.000318	U	0.000512	U	0.000350	U	0.000823	U	0.0313	0.00234	0.000287	J	0.000311	U	0.000343	U	
	B-210-15	8/21/17	PES	ESC	15	24.38	0.919	U	-	0.00731	U	0.0117	U	0.00804	U	0.0189	U	0.0730	0.0647	0.00637	U	0.00715	U	0.00789	U	
	B-210-20	8/21/17	PES	ESC	20	19.38	0.0378	U	-	0.000301	U	0.000484	U	0.000331	U	0.000778	U	0.000307	U	0.000311	U	0.00185	0.000294	U	0.000499	J
	B-210-35	8/21/17	PES	ESC	35	4.38	0.0391	U	-	0.000312	U	0.000501	U	0.000343	U	0.000806	U	0.00789	0.00300	0.00950	0.000305	U	0.000336	U		
	B-210-46	8/21/17	PES	ESC	46	-6.62	0.164		-	0.000294	U	0.000473	U	0.000324	U	0.000760	U	0.000912	J	0.000376	J	3.27	0.00790	0.00182	J	
	B-210-60	8/22/17	PES	ESC	60	-20.62	0.910	U	-	0.00724	U	0.0116	U	0.00796	U	0.0187	U	0.00741	U	0.00749	U	0.00631	U	0.00708	U	
	B-210-70	8/22/17	PES	ESC	70	-30.62	0.0366	U	-	0.000291	U	0.000468	U	0.000320	U	0.000753	U	0.000298	U	0.000301	U	0.0115	0.000285	U	0.000314	U
	B-210-80	8/22/17	PES	ESC	80	-40.62	0.0374	U	-	0.000298	U	0.000479	U	0.000328	U	0.000771	U	0.000305	U	0.000308	U	0.000500	J	0.000292	U	
	B-900-20	8/22/17	PES	ESC	80 (dup)	-40.62	0.0403	U	-	0.000321	U	0.000515	U	0.000353	U	0.000829	U	0.000328	U	0.000331	U	0.000837	J	0.000314	U	
B-211	B-211-20	8/17/17	PES	ESC	20	19.75	-		-	0.000301	U	0.000485	U	0.000332	U	0.000779	U	0.0153	0.0202	0.0282	0.00109	J	0.000723	J		
	B-211-35	8/17/17	PES	ESC	35	4.75	-		-	0.000304	U	0.000489	U	0.000334	U	0.000786	U	0.000805	J	0.000314	U	0.00104	J	0.000297	U	
	B-211-50	8/17/17	PES	ESC	50	-10.25	-		-	0.000292	U	0.000469	U	0.000321	U	0.000755	U	0.0235	0.000302	U	0.0189	0.000512	J	0.00127		
	B-211-57	8/17/17	PES	ESC	57	-17.25	-		-	0.000318	U	0.000512	U	0.000350	U	0.000823	U	0.0294	J	0.00212	0.0830	0.00171	0.00600	0.00600		
	B-211-60	8/17/17	PES	ESC	60	-20.25	-		-	0.000311	U	0.000500	U	0.000342	U	0.000805	U	0.162	0.000907	J	4.99	0.0599	1.15	1.15		
	B-211-65	8/18/17	PES	ESC	65	-25.25	-		-	0.000305	U	0.00201	J	0.000335	U	0.000788	U	7.42	1.15	5.58	0.0110	0.0110	0.0421	0.0421		
	B-211-70	8/18/17	PES	ESC	70	-30.25	-		-	0.162	U	0.260	U	0.177	U	0.418	U	46.1	2.88	3.96	0.158	U	0.175	U		
	B-211-80	8/18/17	PES	ESC	80	-40.25	-		-	0.00731	U	0.0117	U	0.00804	U	0.0188	U	9.34	0.495	0.172	0.00715	U	0.00788	U		
	B-211-90	8/18/17	PES	ESC	90	-50.25	-		-	0.00787	U	0.0126	U	0.00865	U	0.0203	U	2.66	1.00	0.0362	0.0159	J	0.00849	U		
	B-211-100	8/18/17	PES	ESC	100	-60.25	-		-	0.000313	U	0.000504	U	0.000345	U	0.000810	U	0.000320	U	0.000324	U	0.000273	U	0.000306	U	
	B-211-110	8/18/17	PES	ESC	110	-70.25	-		-	0.000298	U	0.000479	U	0.000328	U	0.000770	U	0.00132	0.000436	J	0.000259	U	0.000291	U		
	B-211-120	8/21/17	PES	ESC	120	-80.25	-		-	0.000303	U	0.000487	U	0.000333	U	0.000783	U	0.000628	J	0.000423	J	0.000264	U	0.000296	U	
B-216	B-216-20	9/1/17	PES	ESC	20	31.86	-		-	0.000291	U	0.000467	U	0.000320	U	0.000752	U	0.00134	0.000301	U	0.000253	U	0.000284	U		
	B-216-40	9/1/17	PES	ESC	40	11.86	-		-	0.000293	U	0.000471	U	0.000322	U	0.000757	U	0.000299	U	0.000303	U	0.000255	U	0.000286	U	
	B-216-50	9/1/17	PES	ESC	50	1.86	-		-	0.000292	U	0.000469	U	0.000321	U	0.000754	U	0.000298	U	0.000302	U	0.000254	U	0.000285	U	
	B-216-55	9/1/17	PES	ESC	55	-3.14	-		-	0.0221	0.0228	0.00876	0.0189	0.0139	0.00182	0.182	0.00356	0.00113	0.00356	0.00113	0.00356	0.00113	0.00113	0.00113		
	B-216-65	9/1/17	PES	ESC	65	-13.14	-		-	0.000324	U	0.000521	U	0.000357	U	0.000838	U	0.000331	U	0.000335	U	0.000282	U	0.000317	U	
	B-216-85	9/1/17	PES	ESC	85	-33.14	-		-	0.000541	J	0.000655	J	0.000358	U	0.000842	U	0.000333	U	0.000336	U	0.000289	J	0.000318	U	
	B-216-95	9/1/17	PES	ESC	95	-43.14	-		-	0.000307	U	0.000493	U	0.000337	U	0.000793	U	0.000314	U	0.000317	U	0.000267	U	0.000300	U	
B-217	B-217-15	9/5/17	PES	ESC	15	36.80	-		-	0.000306	U	0.000493	U	0.000337	U	0.000792	U	0.0221	0.000317	U	0.000267	U	0.000300	U		
	B-217-25	9/5/17	PES	ESC	25	26.80	-		-	0.000299	U	0.000481	U	0.000329	U	0.000774	U	0.0432	0.00122	0.00105	J	0.000293	U	0.000323	U	
	B-217-35	9/5/17	PES	ESC	35	16.80	-		-	0.000310	U	0.000498	U	0.000341	U	0.000801	U	0.000317	U	0.000320	U	0.000270	U	0.000303	U	
	B-217-42	9/5/17																								

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
B-217 (continued)	B-217-85	9/6/17	PES	ESC	85	-33.20	-	-	-	0.000308 U	0.000494 U	0.000338 U	0.000795 U	0.000314 U	0.000318 U	0.000268 U	0.000301 U	0.000332 U	
	B-217-95	9/6/17	PES	ESC	95	-43.20	-	-	-	0.000326 U	0.000525 U	0.000359 U	0.000844 U	<b>0.00111 J</b>	0.000337 U	0.000284 U	0.000319 U	0.000352 U	
	B-217-106	9/6/17	PES	ESC	106	-54.20	-	-	-	0.0331 U	0.0532 U	0.0364 U	0.0855 U	<b>5.18</b>	<b>0.704</b>	0.0288 U	0.0324 U	0.0357 U	
	B-217-115	9/6/17	PES	ESC	115	-63.20	-	-	-	0.000312 U	0.000501 U	0.000343 U	0.000806 U	0.000319 U	0.000322 U	0.000271 U	0.000305 U	0.000336 U	
B-218	B-218-12.5	9/19/17	PES	ESC	12.5	25.61	-	-	-	0.000307 U	0.000494 U	0.000338 U	0.000795 U	<b>0.0438</b>	<b>0.775</b>	<b>2.16</b>	<b>0.0171</b>	<b>0.0281</b>	
	B-218-19	9/19/17	PES	ESC	19	19.11	-	-	-	0.000306 U	0.000493 U	0.000337 U	0.000792 U	<b>0.000476 J</b>	<b>0.00946 J</b>	<b>0.123</b>	<b>0.00346</b>	<b>0.0286</b>	
	B-218-25	9/19/17	PES	ESC	25	13.11	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000808 U	<b>0.0104</b>	<b>0.0144</b>	<b>0.0781</b>	<b>0.00124</b>	<b>0.0449</b>	
	B-218-40	9/19/17	PES	ESC	40	-1.89	-	-	-	0.0166 U	0.0267 U	0.0182 U	0.0429 U	<b>0.421</b>	<b>0.255</b>	<b>5.25</b>	<b>0.0724</b>	<b>0.271</b>	
	B-218-50	9/19/17	PES	ESC	50	-11.89	-	-	-	0.000288 U	0.000463 U	0.000317 U	0.000744 U	<b>2.01 J</b>	<b>0.953 J</b>	<b>3.19 J</b>	<b>0.0173</b>	<b>0.0144 J</b>	
	B-913-70	9/19/17	PES	ESC	50 (dup)	-11.89	-	-	-	0.000287 U	0.000461 U	0.000315 U	0.000741 U	<b>0.537 J</b>	<b>0.180 J</b>	<b>5.52 J</b>	<b>0.0127</b>	<b>0.00427 J</b>	
B-219	B-219-42	8/28/17	PES	ESC	42	-2.21	-	-	-	0.000294 U	0.000473 U	0.000323 U	0.000760 U	<b>0.000857 J</b>	<b>0.000504 J</b>	<b>0.0179</b>	0.000288 U	<b>0.00214</b>	
	B-219-50	8/28/17	PES	ESC	50	-10.21	-	-	-	0.000320 U	0.000514 U	0.000352 U	0.000827 U	<b>0.0534 J</b>	<b>0.00555</b>	<b>0.139</b>	<b>0.00107 J</b>	<b>0.156</b>	
	B-219-60	8/28/17	PES	ESC	60	-20.21	-	-	-	0.000291 U	0.000467 U	0.000320 U	0.000751 U	<b>0.000478 J</b>	0.000300 U	<b>0.00202</b>	0.000284 U	<b>0.00161</b>	
	B-219-70	8/28/17	PES	ESC	70	-30.21	-	-	-	0.000308 U	0.000495 U	0.000339 U	0.000797 U	<b>0.00134 J</b>	0.000318 U	<b>0.00307</b>	0.000301 U	<b>0.000670 J</b>	
	B-219-80	8/28/17	PES	ESC	80	-40.21	-	-	-	0.000293 U	0.000471 U	0.000323 U	0.000758 U	0.000300 U	0.000303 U	0.00639 U	0.00717 U	0.000316 U	
B-220	B-220-15	9/20/17	PES	ESC	15	23.91	-	-	-	0.000307 U	0.000493 U	0.000338 U	0.000794 U	<b>0.0351</b>	<b>0.0526</b>	<b>0.576</b>	<b>0.00163</b>	<b>0.0771</b>	
	B-220-29	9/20/17	PES	ESC	29	9.91	-	-	-	0.000314 U	<b>0.000672 J+</b>	0.000345 U	0.000811 U	<b>14.0</b>	<b>1.74</b>	<b>2.13</b>	<b>0.00550 J+</b>	<b>0.0490 J+</b>	
	B-220-32	9/20/17	PES	ESC	32	6.91	-	-	-	0.000308 U	0.000495 U	0.000339 U	0.000796 U	<b>6.52</b>	<b>0.692 J</b>	<b>1.55</b>	<b>0.00784</b>	<b>0.143</b>	
	B-220-40	9/20/17	PES	ESC	40	-1.09	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	<b>38.9</b>	<b>5.82</b>	<b>2.73</b>	<b>0.00562</b>	<b>0.132</b>	
	B-220-50	9/20/17	PES	ESC	50	-11.09	-	-	-	0.000290 U	0.000467 U	0.000319 U	0.000751 U	<b>18.5</b>	<b>2.03</b>	<b>0.0766</b>	<b>0.000658 J</b>	<b>0.00191</b>	
	B-914-75	9/20/17	PES	ESC	50 (dup)	-11.09	-	-	-	0.000290 U	0.000467 U	0.000319 U	0.000751 U	<b>15.5</b>	<b>1.25</b>	<b>0.0913</b>	<b>0.000689 J</b>	<b>0.00210</b>	
B-221	B-221-16	9/20/17	PES	ESC	16	23.02	-	-	-	0.00791 U	0.0127 U	0.00869 U	0.0204 U	<b>0.539</b>	<b>0.250</b>	<b>1.37</b>	0.00773 U	0.0805 U	
	B-221-22	9/20/17	PES	ESC	22	17.02	-	-	-	0.311 U	0.499 U	0.342 U	0.803 U	<b>25.8</b>	<b>0.984 J</b>	<b>2.56</b>	0.304 U	0.335 U	
	B-221-33	9/20/17	PES	ESC	33	6.02	-	-	-	0.302 U	0.486 U	0.332 U	0.781 U	<b>21.8</b>	<b>0.835 J</b>	<b>1.93</b>	0.296 U	0.326 U	
	B-221-37	9/20/17	PES	ESC	37	2.02	-	-	-	0.0635 U	0.102 U	0.0698 U	0.165 U	<b>9.02</b>	<b>0.447</b>	<b>0.438</b>	0.0621 U	0.0684 U	
	B-915-80	9/20/17	PES	ESC	37 (dup)	2.02	-	-	-	0.0309 U	0.0497 U	0.0340 U	0.0800 U	<b>7.54</b>	<b>0.400</b>	<b>0.342</b>	0.0303 U	0.0334 U	
	B-221-45	9/20/17	PES	ESC	45	-5.98	-	-	-	2.96 U	4.76 U	3.26 U	7.66 U	<b>8,270</b>	<b>4.43 J</b>	<b>2.58 U</b>	2.90 U	3.19 U	
	B-221-50	9/20/17	PES	ESC	50	-10.98	-	-	-	0.147 U	0.236 U	0.161 U	0.380 U	<b>30.4</b>	<b>0.618</b>	<b>0.561</b>	0.144 U	0.159 U	
	B-221-60	9/20/17	PES	ESC	60	-20.98	-	-	-	0.149 U	0.240 U	0.164 U	0.386 U	<b>14.5</b>	<b>0.865</b>	<b>1.41</b>	0.146 U	0.161 U	
	B-221-70	9/21/17	PES	ESC	70	-30.98	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	<b>0.0853 J</b>	<b>0.00152</b>	<b>0.00582</b>	0.000291 U	<b>0.00153</b>	
B-222	B-222-17	9/21/17	PES	ESC	17	22.16	-	-	-	0.000306 U	0.000492 U	0.000337 U	0.000791 U	<b>1.01</b>	<b>0.815</b>	0.000266 U	<b>0.00481</b>	<b>0.00907</b>	
	B-222-25	9/21/17	PES	ESC	25	14.16	-	-	-	0.000312 U	0.000502 U	0.000343 U	0.000807 U	<b>0.714</b>	<b>0.130</b>	<b>0.109</b>	<b>0.00171</b>	<b>0.0116</b>	
	B-222-34	9/21/17	PES	ESC	34	5.16	-	-	-	0.000303 U	0.000486 U	0.000333 U	0.000782 U	0.0190 UJ	<b>0.00506</b>	<b>0.0255</b>	<b>0.000980 J</b>	<b>0.0120</b>	
	B-222-42	9/21/17	PES	ESC	42	-2.84	-	-	-	<b>0.000387 J</b>	0.000538 U	0.000368 U	0.000866 U	<b>0.0557 J</b>	<b>0.00699</b>	<b>7.34</b>	<b>0.0431</b>	<b>0.127</b>	
	B-222-50	9/21/17	PES	ESC	50	-10.84	-	-	-	0.0145 U	0.0233 U	0.0159 U	0.0374 U	<b>4.09</b>	<b>1.40 J</b>	<b>0.498 J</b>	0.0142 U	0.0157 U	
	B-916-30	9/21/17	PES	ESC	50 (dup)	-10.84	-	-	-	0.000286 U	0.000460 U	0.000315 U	0.000740 U	<b>4.34</b>	<b>0.172 J</b>	<b>0.160 J</b>	<b>0.00183</b>	0.000309 U	
B-223	B-223-16	9/21/17	PES	ESC	16	23.10	-	-	-	0.0638 U	0.103 U	0.0702 U	0.165 U	<b>27.0</b>	<b>1.08</b>	<b>1.71</b>	0.0624 U	0.0688 U	
	B-223-22	9/21/17	PES	ESC	22	17.10	-	-	-	0.0617 U	0.0991 U	0.0678 U	0.160 U	<b>38.0</b>	<b>0.453</b>	<b>0.713</b>	0.0603 U	0.0665 U	
	B-223-30	9/21/17	PES	ESC	30	9.10	-	-	-	7.43 U	11.9 U	8.17 U	19.2 U	<b>5,560</b>	7.68 U	6.47 U	7.27 U	8.01 U	
	B-223-39	9/21/17	PES	ESC	39	0.10	-	-	-	0.000308 U	0.000494 U	0.000338 U	0.000795 U	<b>4.68</b>	<b>0.0228</b>	<b>0.0914</b>	<b>0.000883 J</b>	<b>0.00775</b>	
	B-223-47	9/21/17	PES	ESC	47	-7.90	-	-	-	0.000314 U	0.000504 U	0.000345 U	0.000810 U	<b>2.17 J</b>	<b>0.00106 J</b>	<b>0.00208</b>	0.000307 U	0.000338 U	
	B-917-57	9/21/17	PES	ESC	47 (dup)	-7.90	-	-	-	0.000290 U	0.000466 U	0.000319 U	0.000750 U	<b>1.13 J</b>	<b>0.000520 J</b>	<b>0.000728 J</b>	0.000284 U	0.000313 U	
B-224	B-224-6	11/27/17	PES	ESC	6	33.10	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000755 U	<b>0.0208</b>	<b>0.00205</b>	<b>0.000624 J</b>	0.000285 U	0.000315 U	
	B-224-11	11/27/17	PES	ESC	11	28.10	-	-	-	0.000722 U	<b>0.00174 J</b>	0.000793 U	0.00186 U	<b>0.151</b>	<b>0.0404</b>	<b>0.148</b>	<b>0.0136</b>	<b>0.0577</b>	
	B-224-16	11/27/17	PES	ESC	16	23.10	-	-	-	0.000326 U	0.000525 U	0.000359 U	0.000844 U	<b>0.0101</b>	<b>0.00374</b>	<b>0.0279</b>	<b>0.000403 J</b>	<b>0.0195</b>	
	B-224-21.5	11/27/17	PES	ESC	21.5	17.60	-	-	-	0.000313 U	0.000504 U	0.000345 U	0.000810 U	<b>2.71</b>	<b>0.0906</b>	<b>0.117</b>	<b>0.00140</b>	<b>0.00460</b>	
	B-224-26	11/27/17	PES	ESC	26	13.10	-	-	-	0.000357 U	0.000574 U	0.000392 U	0.000923 U	<b>3.07</b>	<b>0.234</b>	<b>0.289</b>	<b>0.00329</b>	<b>0.0154</b>	
	B-224-31	11/27/17	PES	ESC	31	8.10	-	-	-	0.000316 U	0.000508 U	0.000348 U	0.000816 U	<b>4.71</b>	<b>0.137</b>	<b>0.207</b>	<b>0.00128</b>	<b>0.00773</b>	
	B-224-36	11/27/17	PES	ESC	36	3.10	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	<b>6.55</b>	<b>0.269</b>	<b>0.326</b>	<b>0.00289</b>	<b>0.0255</b>	
	B-224-60.5	11/27/17	PES	ESC	60.5	-21.40	-	-	-	0.000436 U	0.000702 U	0.000481 U	0.00113 U	<b>0.151</b>	<b>0.00944</b>	<b>0.0323</b>	0.000427 U	<b>0.0103</b>	
B-225	B-225-5	11/27/17	PES	ESC	5	34.10	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	<b>0.0223</b>	<b>0.00239</b>	<b>0.00217</b>	0.000286 U	0.000316 U	

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
B-225 (continued)	B-225-11	11/27/17	PES	ESC	11	28.10	-	-	-	0.000316 U	0.000508 U	0.000347 U	0.000816 U	0.0124	0.00394	0.0222	0.000309 U	0.000480 J	
	B-225-16	11/27/17	PES	ESC	16	23.10	-	-	-	0.00794 U	0.0127 U	0.00873 U	0.0205 U	4.26	0.353	1.62	0.00776 U	0.0460	
	B-225-21	11/27/17	PES	ESC	21	18.10	-	-	-	0.00767 U	0.0123 U	0.00844 U	0.0198 U	1.11	0.0428	0.0455	0.00750 U	0.00828 U	
	B-225-26	11/27/17	PES	ESC	26	13.10	-	-	-	0.000317 U	0.000510 U	0.000349 U	0.000820 U	1.13	0.0370	0.0710	0.000763 J	0.00619	
	B-225-31	11/27/17	PES	ESC	31	8.10	-	-	-	0.000309 U	0.000496 U	0.000339 U	0.000798 U	1.09	0.0372	0.164	0.000751 J	0.00550	
	B-225-36	11/27/17	PES	ESC	36	3.10	-	-	-	0.000333 U	0.000535 U	0.000366 U	0.000860 U	0.158	0.00696	0.0115	0.000325 U	0.000538 J	
B-226	B-226-6	11/28/17	PES	ESC	6	33.10	-	-	-	0.000325 U	0.000523 U	0.000358 U	0.000841 U	0.0227	0.00209	0.00317	0.000318 U	0.000350 U	
	B-226-11	11/28/17	PES	ESC	11	28.10	-	-	-	0.000306 U	0.000730 J	0.000337 U	0.000792 U	0.00869	0.00190	0.00338	0.000299 U	0.000805 J	
	B-226-16	11/28/17	PES	ESC	16	23.10	-	-	-	0.00757 U	0.0121 U	0.00832 U	0.0195 U	21.7 J	0.917 J	1.84 J	0.0147 J	0.0557 J	
	B-920-35	11/28/17	PES	ESC	16 (dup)	23.10	-	-	-	0.000299 U	0.000480 U	0.000329 U	0.000772 U	10.6 J	0.0316 J	0.0714 J	0.000613 J	0.00141 J	
	B-226-21	11/28/17	PES	ESC	21	18.10	-	-	-	0.000308 U	0.000494 U	0.000338 U	0.000795 U	3.07	0.00779	0.00832	0.000301 U	0.000390 J	
	B-226-31.5	11/28/17	PES	ESC	31.5	7.60	-	-	-	0.000287 U	0.000462 U	0.000316 U	0.000743 U	4.80	0.0755	0.135	0.00128	0.0102	
	B-226-40	11/28/17	PES	ESC	40	-0.90	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000799 U	1.75	0.0401	0.112	0.000939 J	0.0188	
B-227	B-227-6	11/28/17	PES	ESC	6	33.10	-	-	-	0.000308 U	0.000496 U	0.000339 U	0.000797 U	0.0154	0.000798 J	0.000455 J	0.000301 U	0.000332 U	
	B-227-11	11/28/17	PES	ESC	11	28.10	-	-	-	0.000291 U	0.000468 U	0.000320 U	0.000752 U	0.141	0.0406	0.0438	0.00143	0.000314 U	
	B-227-16	11/28/17	PES	ESC	16	23.10	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000800 U	2.47	0.0804	0.429	0.00203	0.00781	
	B-227-21	11/28/17	PES	ESC	21	18.10	-	-	-	0.000313 U	0.000504 U	0.000345 U	0.000810 U	7.18	0.311	0.393	0.00290	0.0186	
	B-227-26	11/28/17	PES	ESC	26	13.10	-	-	-	0.000315 U	0.000506 U	0.000346 U	0.000813 U	7.86	0.124	0.351	0.00186	0.00735	
	B-227-31	11/28/17	PES	ESC	31	8.10	-	-	-	0.000324 U	0.000521 U	0.000356 U	0.000837 U	8.38	0.0396	0.0636	0.000628 J	0.00446	
	B-227-36	11/28/17	PES	ESC	36	3.10	-	-	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	1.75	0.138	0.382	0.00193	0.00169	
B-228	B-228-6	11/29/17	PES	ESC	6	33.10	-	-	-	0.000330 U	0.000531 U	0.000363 U	0.000854 U	0.0291	0.00216	0.00505	0.000323 U	0.000356 U	
	B-228-11	11/29/17	PES	ESC	11	28.10	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000776 U	0.00300	0.000709 J	0.000669 J	0.000293 U	0.000323 U	
	B-228-16	11/29/17	PES	ESC	16	23.10	-	-	-	0.000291 U	0.000556 J	0.000320 U	0.000752 U	203 J	0.680 J	0.811 J	0.00385	0.00764	
	B-921-22	11/29/17	PES	ESC	16 (dup)	23.10	-	-	-	0.000310 U	0.000672 J	0.000341 U	0.000802 U	18.2 J	0.378 J	0.474 J	0.00415	0.00840	
	B-228-21	11/29/17	PES	ESC	21	18.10	-	-	-	0.000305 U	0.000491 U	0.000336 U	0.000789 U	14.0	0.0594	0.0290	0.000496 J	0.000858 J	
	B-228-26	11/29/17	PES	ESC	26	13.10	-	-	-	0.000291 U	0.000467 U	0.000320 U	0.000751 U	10.2	0.0775	0.112	0.000777 J	0.0127	
	B-228-31	11/29/17	PES	ESC	31	8.10	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	1.60	0.0786	0.121	0.000614 J	0.0103	
	B-228-36	11/29/17	PES	ESC	36	3.10	-	-	-	0.000305 U	0.000490 U	0.000336 U	0.000789 U	0.101	0.0486	0.0648	0.000603 J	0.0217	
B-229	B-229-6	11/29/17	PES	ESC	6	33.10	-	-	-	0.000395 U	0.000635 U	0.000435 U	0.00102 U	0.769	0.0382	0.0257	0.000386 U	0.000426 U	
	B-229-11	11/29/17	PES	ESC	11	28.10	-	-	-	0.000383 U	0.00219 J	0.000422 U	0.000991 U	0.0366	0.00585	0.118	0.00148	0.0272	
	B-229-16	11/29/17	PES	ESC	16	23.10	-	-	-	0.000388 J	0.000517 U	0.000354 U	0.000832 U	0.101	0.0138	0.0188	0.000828 J	0.00481	
	B-229-25	11/29/17	PES	ESC	25	14.10	-	-	-	0.000296 U	0.000476 U	0.000326 U	0.000765 U	2.50	0.510	0.865	0.00195	0.0418	
	B-229-31	11/29/17	PES	ESC	31	8.10	-	-	-	0.000326 U	0.000523 U	0.000358 U	0.000842 U	4.99	1.53	2.35	0.00384	0.105	
	B-229-36	11/29/17	PES	ESC	36	3.10	-	-	-	0.000297 U	0.000477 U	0.000327 U	0.000768 U	9.25	0.898	1.02	0.00217	0.0609	
	B-229-41	11/29/17	PES	ESC	41	-1.90	-	-	-	0.000314 U	0.000505 U	0.000346 U	0.000813 U	64.0	0.384 J	0.403 J	0.00377	0.126	
	B-229-45	11/29/17	PES	ESC	45	-5.90	-	-	-	0.000323 U	0.000519 U	0.000355 U	0.000835 U	158 J+	0.0946 J+	0.105 J+	0.000316 J+	0.00430 J+	
B-230	B-230-6	11/30/17	PES	ESC	6	33.10	-	-	-	0.000285 U	0.000458 U	0.000313 U	0.000736 U	0.0333	0.00215	0.00376	0.000278 U	0.000307 U	
	B-230-11	11/30/17	PES	ESC	11	28.10	-	-	-	0.000348 J	0.000474 U	0.000324 U	0.000762 U	0.00442	0.000709 J	0.00634	0.000288 U	0.00225	
	B-230-16	11/30/17	PES	ESC	16	23.10	-	-	-	0.0751 U	0.120 U	0.0826 U	0.194 U	1,100	9.17	10.4	0.0735 U	0.0810 U	
	B-230-21	11/30/17	PES	ESC	21	18.10	-	-	-	0.645 U	1.04 U	0.709 U	1.67 U	2,820 J	4.43 J	2.71 J	0.630 U	0.695 U	
	B-922-15	11/30/17	PES	ESC	21 (dup)	18.10	-	-	-	0.326 U	0.524 U	0.359 U	0.843 U	165 J	0.505 J	0.884 J	0.319 U	0.351 U	
	B-230-26	11/30/17	PES	ESC	26	13.10	-	-	-	0.809 U	1.29 U	0.889 U	2.09 U	607	0.836 U	0.705 U	0.791 U	0.872 U	
	B-230-31	11/30/17	PES	ESC	31	8.10	-	-	-	0.336 U	0.540 U	0.369 U	0.868 U	105	0.603 J	1.82	0.328 U	0.362 U	
	B-230-35	11/30/17	PES	ESC	35	4.10	-	-	-	0.0488 U	0.0784 U	0.0536 U	0.174 J	25.4	0.211	0.470	0.0477 U	0.0525 U	
	B-230-55	11/30/17	PES	ESC	55	-15.90	-	-	-	0.0810 U	0.130 U	0.0891 U	0.209 U	42.3	5.09	1.97	0.0792 U	0.0874 U	
B-231	B-231-6	11/30/17	PES	ESC	6	33.10	-	-	-	0.000333 U	0.000535 U	0.000366 U	0.000861 U	0.0109	0.00146	0.00617	0.000326 U	0.000359 U	
	B-231-11	11/30/17	PES	ESC	11	28.10	-	-	-	0.000318 U	0.000512 U	0.000350 U	0.000823 U	0.0347	0.000346 J	0.000868 J	0.000311 U	0.000343 U	
	B-231-16	11/30/17	PES	ESC	16	23.10	-	-	-	0.00756 U	0.0121 U	0.00831 U	0.0195 U	0.438	0.118	2.18	0.00739 U	0.0114 J	
	B-231-21	11/30/17	PES	ESC	21	18.10	-	-	-	0.0179 U	0.0287 U	0.0196 U	0.0462 U	0.728	0.180	0.911	0.0174 U	0.0458 J	
	B-231-26	11/30/17	PES	ESC	26	13.10	-	-	-	0.000314 U	0.000504 U	0.000345 U	0.000811 U	0.119	0.0177	0.122	0.000898 J	0.00996	
	B-231-30	11/30/17	PES	ESC	30	9.10	-	-	-	0.000305 U	0.000490 U	0.000335 U	0.000787 U	0.0182	0.00140	0.00245	0.000298 U	0.00142	



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
(B-231, continued)	B-231-36	11/30/17	PES	ESC	36	3.10	-	-	-	0.000306 U	0.000492 U	0.000337 U	0.000792 U	<b>0.0521</b>	<b>0.00158</b>	<b>0.0441</b>	<b>0.000664</b> J	<b>0.118</b>	
B-232	B-232-6	12/1/17	PES	ESC	6	33.10	-	-	-	<b>0.000380</b> J	<b>0.00268</b> J	0.000351 U	<b>0.000825</b> J	<b>0.00936</b>	<b>0.00224</b>	<b>0.00586</b>	<b>0.000488</b> J	<b>0.00163</b>	
	B-232-11	12/1/17	PES	ESC	11	28.10	-	-	-	<b>0.000630</b> J+	<b>0.000806</b> J+	0.000395 U	0.000929 U	<b>0.00590</b> J+	<b>0.00169</b> J+	<b>0.00464</b> J+	0.000351 U	<b>0.00346</b> J+	
	B-232-16	12/1/17	PES	ESC	16	23.10	-	-	-	0.000316 U	0.000508 U	0.000348 U	0.000817 U	0.000676 U	0.000327 U	<b>0.0101</b>	0.000309 U	<b>0.00442</b>	
	B-232-21	12/1/17	PES	ESC	21	18.10	-	-	-	0.000302 U	0.000486 U	0.000332 U	0.000781 U	<b>0.0190</b>	<b>0.0216</b>	<b>0.147</b>	<b>0.00106</b> J	<b>0.00682</b>	
	B-232-26	12/1/17	PES	ESC	26	13.10	-	-	-	0.0101 U	0.0162 U	0.0111 U	0.0261 U	<b>11.1</b>	<b>0.763</b>	<b>0.474</b>	0.00987 U	0.0109 U	
	B-232-31	12/1/17	PES	ESC	31	8.10	-	-	-	0.000305 U	0.000490 U	0.000335 U	0.000788 U	<b>4.27</b>	<b>0.0964</b>	<b>0.0874</b>	<b>0.000524</b> J	<b>0.0110</b>	
	B-232-36	12/1/17	PES	ESC	36	3.10	-	-	-	0.000320 U	0.000514 U	0.000352 U	0.000827 U	<b>1.88</b>	<b>0.0913</b>	<b>0.110</b>	<b>0.000631</b> J	<b>0.0123</b>	
B-233	B-233-6	12/1/17	PES	ESC	6	29.50	-	-	-	0.000291 U	0.000468 U	0.000320 U	0.000753 U	<b>0.0192</b>	<b>0.00321</b>	<b>0.00266</b>	0.000285 U	0.000314 U	
	B-233-11	12/1/17	PES	ESC	11	24.50	-	-	-	<b>0.00167</b> J+	<b>0.00349</b> J+	0.000828 U	0.00194 U	<b>0.172</b> J+	<b>0.0579</b> J+	<b>0.0321</b> J+	0.000737 U	<b>0.00824</b> J+	
	B-233-16	12/1/17	PES	ESC	16	19.50	-	-	-	<b>0.000420</b> J	0.000612 U	0.000419 U	0.000985 U	<b>0.0231</b>	<b>0.00524</b>	<b>0.0101</b>	0.000373 U	<b>0.00358</b>	
	B-233-21	12/1/17	PES	ESC	21	14.50	-	-	-	<b>0.00770</b>	0.0123 U	0.00847 U	0.0199 U	<b>8.23</b>	<b>0.434</b>	<b>0.645</b>	<b>0.00859</b> J	<b>0.0584</b>	
	B-233-26	12/1/17	PES	ESC	26	9.50	-	-	-	0.0161 U	0.0259 U	0.0177 U	0.0417 U	<b>9.90</b>	<b>2.55</b>	<b>2.40</b>	0.0158 U	<b>0.0261</b> J	
	B-233-31	12/1/17	PES	ESC	31	4.50	-	-	-	0.00839 U	0.0134 U	0.00923 U	0.0216 U	<b>17.3</b>	<b>1.99</b>	<b>1.65</b>	0.00821 U	<b>0.0519</b>	
	B-233-36	12/1/17	PES	ESC	36	-0.50	-	-	-	0.00760 U	0.0122 U	0.00835 U	0.0196 U	<b>6.26</b>	<b>0.474</b>	<b>0.969</b>	0.00743 U	<b>0.0404</b>	
B-234	B-234-11	12/4/17	PES	ESC	11	40.80	-	-	-	0.000314 U	0.000505 U	0.000345 U	0.000812 U	<b>0.00155</b>	0.000324 U	0.000273 U	0.000307 U	0.000338 U	
	B-234-30	12/4/17	PES	ESC	30	21.80	-	-	-	0.000286 U	0.000459 U	0.000314 U	0.000739 U	0.000292 U	0.000295 U	0.000249 U	0.000279 U	0.000308 U	
B-234A	B-234A-35	12/4/17	PES	ESC	35	16.80	-	-	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	<b>0.000320</b> J	0.000320 U	0.000270 U	0.000303 U	0.000334 U	
	B-234A-40	12/4/17	PES	ESC	40	11.80	-	-	-	0.000291 U	0.000467 U	0.000320 U	0.000751 U	<b>0.000501</b> J	0.000300 U	0.000253 U	0.000284 U	0.000313 U	
	B-234A-42	12/4/17	PES	ESC	42	9.80	-	-	-	0.000331 U	0.000532 U	0.000364 U	0.000855 U	<b>0.0146</b>	<b>0.00180</b>	<b>3.65</b> J	<b>0.00104</b> J	<b>0.343</b> J	
	B-924-30	12/4/17	PES	ESC	42 (dup)	9.80	-	-	-	0.000328 U	0.000527 U	0.000361 U	0.000848 U	<b>0.0113</b>	<b>0.00161</b>	<b>2.54</b> J	<b>0.00119</b> J	<b>0.167</b> J	
	B-234A-45	12/4/17	PES	ESC	45	6.80	-	-	-	0.000304 U	0.000489 U	0.000335 U	0.000787 U	<b>0.0533</b>	<b>0.00364</b>	<b>1.99</b>	<b>0.000552</b> J	<b>0.106</b>	
B-235	B-235-15	12/5/17	PES	ESC	15	36.80	-	-	-	0.000325 U	0.000521 U	0.000357 U	0.000838 U	<b>0.0393</b>	<b>0.000776</b> J	0.000261 U	0.000317 U	0.000349 U	
	B-235-35	12/5/17	PES	ESC	35	16.80	-	-	-	0.000299 U	0.000480 U	0.000329 U	0.000773 U	<b>0.0424</b>	<b>0.00527</b>	<b>0.000746</b> J	0.000292 U	0.000322 U	
	B-235-40	12/5/17	PES	ESC	40	11.80	-	-	-	<b>0.000326</b> J	0.000476 U	0.000326 U	0.000765 U	<b>2.24</b>	<b>0.0233</b>	<b>0.00618</b>	0.000289 U	0.000319 U	
	B-235-42.5	12/5/17	PES	ESC	42.5	9.30	-	-	-	0.0590 U	0.0948 U	0.0649 U	0.153 U	<b>18.9</b>	<b>1.06</b>	<b>2.07</b>	0.0577 U	<b>0.0877</b> J	
	B-235-45	12/5/17	PES	ESC	45	6.80	-	-	-	0.000304 U	<b>0.000506</b> J	0.000334 U	0.000786 U	<b>20.7</b>	<b>1.09</b>	<b>0.479</b>	<b>0.000963</b> J	<b>0.0885</b>	
B-236	B-236-20	12/5/17	PES	ESC	20	31.80	-	-	-	0.000309 U	0.000496 U	0.000340 U	0.000798 U	<b>0.0460</b>	<b>0.00164</b>	<b>0.00139</b>	0.000302 U	0.000333 U	
	B-236-35	12/5/17	PES	ESC	35	16.80	-	-	-	0.000489 U	0.000786 U	0.000538 U	0.00127 U	<b>0.00968</b>	0.000310 U	0.000261 U	0.000478 U	0.000527 U	
	B-236-40	12/5/17	PES	ESC	40	11.80	-	-	-	0.000299 U	0.000480 U	0.000329 U	0.000772 U	<b>0.0440</b>	<b>0.000826</b> J	<b>0.00621</b>	0.000292 U	<b>0.00373</b>	
	B-236-42.5	12/5/17	PES	ESC	42.5	9.30	-	-	-	0.317 U	0.509 U	0.348 U	0.819 U	<b>16.400</b>	<b>72.5</b>	<b>2.87</b>	0.310 U	<b>0.407</b> J	
	B-236-45	12/5/17	PES	ESC	45	6.80	-	-	-	0.106 U	0.170 U	0.116 U	0.274 U	<b>31.0</b>	<b>0.335</b> J	<b>0.969</b>	0.104 U	0.114 U	
B-237	B-237-5	12/6/17	PES	ESC	5	46.80	-	-	-	0.000314 U	0.000505 U	0.000346 U	0.000813 U	<b>0.00814</b>	0.000325 U	0.000274 U	0.000307 U	0.000339 U	
	B-237-35	12/6/17	PES	ESC	35	16.80	-	-	-	0.000315 U	0.000507 U	0.000347 U	0.000815 U	<b>0.000770</b> J	0.000326 U	0.000274 U	0.000308 U	0.000340 U	
	B-237-40	12/6/17	PES	ESC	40	11.80	-	-	-	0.000290 U	0.000466 U	0.000319 U	0.000750 U	<b>2.57</b>	<b>0.0163</b>	<b>1.34</b>	0.000284 U	0.000313 U	
	B-237-42	12/6/17	PES	ESC	42	9.80	-	-	-	0.000319 U	<b>0.000539</b> J	0.000351 U	0.000825 U	<b>24.1</b> J	<b>0.746</b> J	<b>1.84</b> J	<b>0.00338</b> J	<b>0.290</b> J	
	B-925-41	12/6/17	PES	ESC	42 (dup)	9.80	-	-	-	0.0345 U	0.0554 U	0.0379 U	0.0891 U	<b>53.0</b> J	<b>1.86</b> J	<b>4.51</b> J	0.0337 U	<b>0.110</b> J	
	B-237-45	12/6/17	PES	ESC	45	6.80	-	-	-	0.000348 U	0.000559 U	0.000382 U	0.000899 U	<b>10.9</b>	<b>0.0457</b>	<b>2.83</b>	<b>0.000848</b> J	<b>0.131</b>	
B-238	B-238-6	12/6/17	PES	ESC	6	33.10	-	-	-	0.000315 U	0.000506 U	0.000346 U	0.000814 U	<b>0.0262</b>	<b>0.00294</b>	<b>0.0118</b>	0.000308 U	0.000339 U	
	B-238-11	12/6/17	PES	ESC	11	28.10	-	-	-	<b>0.000929</b> J+	<b>0.00774</b> J+	0.000346 U	0.000812 U	<b>22.7</b>	<b>0.0724</b> J+	<b>0.0767</b> J+	<b>0.000705</b> J+	<b>0.00193</b>	
	B-238-16	12/6/17	PES	ESC	16	23.10	-	-	-	0.0772 U	0.124 U	0.0849 U	0.199 U	<b>28.6</b>	<b>0.262</b> J	<b>0.191</b> J	0.0755 U	0.0833 U	
	B-238-21	12/6/17	PES	ESC	21	18.10	-	-	-	0.301 U	0.484 U	0.331 U	0.779 U	<b>156</b>	0.311 U	0.262 U	0.295 U	0.325 U	
	B-238-26	12/6/17	PES	ESC	26	13.10	-	-	-	0.000302 U	0.000485 U	0.000332 U	0.000781 U	<b>3.04</b>	<b>0.303</b>	<b>0.375</b>	<b>0.00236</b>	<b>0.0375</b>	
	B-238-31	12/6/17	PES	ESC	31	8.10	-	-	-	0.000286 U	0.000460 U	0.000315 U	0.000740 U	<b>1.02</b>	<b>0.0375</b>	<b>0.0572</b>	<b>0.000537</b> J	<b>0.0210</b>	
	B-238-36	12/6/17	PES	ESC	36	3.10	-	-	-	0.000316 U	0.000508 U	0.000348 U	0.000817 U	<b>4.04</b>	<b>0.0399</b>	<b>0.0928</b>	<b>0.000500</b> J	<b>0.0328</b>	
B-239	B-239-5	4/3/18	PES	ESC	5	34.24	-	-	-	0.000321 U	0.000516 U	0.000353 U	0.000830 U	<b>0.0292</b>	<b>0.00590</b>	<b>0.0107</b>	0.000314 U	0.000346 U	
	B-239-10	4/3/18	PES	ESC	10	29.24	-	-	-	0.000319 U	0.000512 U	0.000350 U	0.000824 U	<b>0.509</b>	<b>0.104</b>	<b>0.0366</b>	<b>0.000619</b> J	<b>0.0159</b>	
	B-239-15	4/3/18	PES	ESC	15	24.24	-	-	-	0.000307 U	0.000494 U	0.000338 U	0.000795 U	<b>0.133</b>	<b>0.0428</b>	<b>0.0187</b>	0.000301 U	<b>0.00479</b>	
	B-239-20	4/3/18	PES	ESC	20	19.24	-	-	-	0.000305 U	0.000490 U	0.000335 U	0.000788 U	<b>0.00688</b>	<b>0.000781</b> J	<b>0.000649</b> J	0.000298 U	0.000328 U	
	B-239-25	4/3/18	PES	ESC	25	14.24	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000800 U	<b>0.00259</b>	<b>0.000327</b> J	<b>0.000411</b> J	0.000302 U	0.000333 U	
	B-239-35	4/3/18	PES	ESC	35	4.24	-	-	-	0.000292 U	0.000470 U	0.000322 U	0.000756 U	<b>0.0330</b>	<b>0.00550</b>	<b>0.00395</b>	0.000286 U	<b>0.000632</b> J	

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**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
B-239 (continued)	B-239-40	4/3/18	PES	ESC	40	-0.76	-	-	-	0.000306 U	0.000492 U	0.000337 U	0.000792 U	<b>0.0414</b>	<b>0.00626</b>	<b>0.00454</b>	0.000299 U	<b>0.000769 J</b>	
	B-239-45	4/3/18	PES	ESC	45	-5.76	-	-	-	0.000302 U	0.000486 U	0.000333 U	0.000782 U	<b>0.000534 J</b>	0.000313 U	<b>0.000317 J</b>	0.000296 U	<b>0.000390 J</b>	
	B-239-50	4/3/18	PES	ESC	50	-10.76	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000771 U	<b>0.000777 J</b>	0.000308 U	<b>0.000272 J</b>	0.000292 U	0.000321 U	
	B-909-50	4/3/18	PES	ESC	50 (dup)	-10.76	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000776 U	<b>0.000448 J</b>	0.000310 U	0.000261 U	0.000293 U	0.000323 U	
	B-239-55	4/3/18	PES	ESC	55	-15.76	-	-	-	0.000307 U	0.000494 U	0.000338 U	0.000794 U	0.000314 U	0.000317 U	0.000267 U	0.000300 U	0.000331 U	
	B-239-60	4/3/18	PES	ESC	60	-20.76	-	-	-	0.000302 U	0.000485 U	0.000332 U	0.000781 U	0.000309 U	0.000312 U	0.000263 U	0.000295 U	0.000325 U	
	B-239-65	4/3/18	PES	ESC	65	-25.76	-	-	-	0.000302 U	0.000485 U	0.000332 U	0.000780 U	0.000308 U	0.000312 U	0.000263 U	0.000295 U	0.000325 U	
	B-239-70	4/3/18	PES	ESC	70	-30.76	-	-	-	0.000301 U	0.000483 U	0.000331 U	0.000778 U	<b>0.000926 J</b>	0.000311 U	0.000262 U	0.000294 U	0.000324 U	
	B-239-75	4/3/18	PES	ESC	75	-35.76	-	-	-	0.000311 U	0.000500 U	0.000342 U	0.000805 U	0.000318 U	0.000322 U	0.000271 U	0.000304 U	0.000335 U	
B-239-80	4/3/18	PES	ESC	80	-40.76	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000799 U	0.000316 U	0.000319 U	0.000269 U	0.000302 U	0.000333 U		
B-240	B-240-5	4/2/18	PES	ESC	5	34.24	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	<b>0.0231</b>	0.000308 U	<b>0.00274</b>	0.000291 U	0.000321 U	
	B-240-10	4/2/18	PES	ESC	10	29.24	-	-	-	<b>0.000325 J</b>	0.000478 U	0.000327 U	0.000770 U	<b>1.25</b>	<b>0.0141</b>	<b>0.0929</b>	<b>0.000635 J</b>	<b>0.0427</b>	
	B-240-15	4/2/18	PES	ESC	15	24.24	-	-	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	<b>53.7</b>	<b>0.118</b>	<b>0.0785</b>	<b>0.000802 J</b>	<b>0.00418</b>	
	B-240-20	4/2/18	PES	ESC	20	19.24	-	-	-	0.000314 U	0.000505 U	0.000346 U	0.000813 U	<b>6.75</b>	<b>0.0715 J</b>	<b>0.142</b>	<b>0.000619 J</b>	<b>0.0268</b>	
	B-240-25	4/2/18	PES	ESC	25	14.24	-	-	-	0.0151 U	0.0242 U	0.0165 U	0.0390 U	<b>5.18</b>	<b>0.214</b>	<b>0.356</b>	0.0147 U	<b>0.0421 J</b>	
	B-240-30	4/2/18	PES	ESC	30	9.24	-	-	-	0.000325 U	0.000523 U	0.000358 U	0.000841 U	<b>5.51</b>	<b>0.352</b>	<b>0.578</b>	<b>0.00143</b>	<b>0.0480</b>	
	B-240-35	4/2/18	PES	ESC	35	4.24	-	-	-	0.000324 U	0.000521 U	0.000357 U	0.000838 U	<b>5.53</b>	<b>0.290</b>	<b>0.461</b>	<b>0.00131</b>	<b>0.0447</b>	
	B-240-42	4/2/18	PES	ESC	42	-2.76	-	-	-	0.000291 U	0.000467 U	0.000320 U	0.000751 U	<b>0.204</b>	0.00751 UJ	<b>0.00863 J</b>	0.000284 U	<b>0.00225</b>	
	B-240-45	4/2/18	PES	ESC	45	-5.76	-	-	-	0.000286 U	0.000460 U	0.000315 U	0.000740 U	<b>0.00137</b>	0.000296 U	<b>0.000371 J</b>	0.000280 U	0.000309 U	
	B-240-50	4/2/18	PES	ESC	50	-10.76	-	-	-	0.000304 U	0.000489 U	0.000334 U	0.000786 U	0.000311 U	0.000314 U	0.000265 U	0.000297 U	0.000328 U	
	B-240-55	4/2/18	PES	ESC	55	-15.76	<b>0.376</b>	-	-	0.000313 U	0.000503 U	0.000345 U	0.000810 U	<b>0.0161</b>	<b>0.000513 J</b>	<b>0.00231</b>	0.000306 U	<b>0.000654 J</b>	
	B-240-60	4/2/18	PES	ESC	60	-20.76	<b>0.124</b>	-	-	0.000314 U	0.000505 U	0.000346 U	0.000813 U	<b>0.0323</b>	<b>0.00223</b>	<b>0.0157</b>	0.000307 U	<b>0.00133</b>	
	B-240-65	4/2/18	PES	ESC	65	-25.76	0.0368 U	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	<b>0.0171</b>	<b>0.000760 J</b>	<b>0.00152</b>	0.000286 U	<b>0.000410 J</b>	
	B-240-70	4/2/18	PES	ESC	70	-30.76	<b>0.0447 J</b>	-	-	0.000312 U	0.000502 U	0.000344 U	0.000808 U	<b>0.0621</b>	<b>0.00454</b>	<b>0.0138</b>	0.000305 U	<b>0.00117</b>	
	B-240-75	4/2/18	PES	ESC	75	-35.76	0.0372 U	-	-	0.000297 U	0.000477 U	0.000326 U	0.000767 U	<b>0.00162</b>	<b>0.000773 J</b>	<b>0.00612</b>	0.000290 U	0.000320 U	
	B-240-80	4/2/18	PES	ESC	80	-40.76	0.0386 U	-	-	0.000307 U	0.000494 U	0.000338 U	0.000794 U	<b>0.000376 J</b>	0.000317 U	<b>0.000662 J</b>	0.000300 U	0.000331 U	
B-241	B-241-5	4/4/18	PES	ESC	5	34.08	-	-	-	<b>0.00118</b>	<b>0.0139</b>	<b>0.210</b>	<b>4.11</b>	<b>0.0428</b>	<b>0.00500</b>	<b>0.00554</b>	0.000286 U	0.000316 U	
	B-241-10	4/4/18	PES	ESC	10	29.08	-	-	-	0.000306 U	0.000492 U	<b>0.000337 J</b>	0.000791 U	<b>0.00116</b>	<b>0.000459 J</b>	<b>0.0503</b>	<b>0.000357 J</b>	<b>0.00320</b>	
	B-241-15	4/4/18	PES	ESC	15	24.08	-	-	-	0.000301 U	0.000484 U	0.000332 U	0.000779 U	<b>0.00106 J</b>	<b>0.000424 J</b>	<b>0.000701 J</b>	0.000295 U	<b>0.00335</b>	
	B-241-20	4/4/18	PES	ESC	20	19.08	-	-	-	0.000329 U	0.000528 U	0.000361 U	0.000849 U	<b>0.0273</b>	<b>0.0525</b>	<b>0.172</b>	<b>0.00274</b>	<b>0.0648</b>	
	B-241-25	4/4/18	PES	ESC	25	14.08	-	-	-	0.000305 U	0.000491 U	0.000336 U	0.000789 U	<b>0.0148</b>	<b>0.00615</b>	<b>0.0177</b>	0.000298 U	<b>0.00779</b>	
	B-241-30	4/3/18	PES	ESC	30	9.08	-	-	-	0.000303 U	0.000487 U	0.000333 U	0.000783 U	<b>0.0422</b>	<b>0.0721</b>	<b>0.469</b>	<b>0.00315</b>	<b>0.107</b>	
	B-241-35	4/3/18	PES	ESC	35	4.08	-	-	-	0.000313 U	0.000502 U	0.000344 U	0.000808 U	<b>0.00290 J+</b>	<b>0.000891 J+</b>	<b>0.00791</b>	<b>0.00103 J+</b>	<b>0.0114</b>	
	B-241-40	4/3/18	PES	ESC	40	-0.92	-	-	-	0.000296 U	0.000476 U	0.000326 U	0.000766 U	<b>0.00525</b>	<b>0.00280</b>	<b>0.0154</b>	0.000290 U	<b>0.00660</b>	
	B-241-45	4/3/18	PES	ESC	45	-5.92	-	-	-	<b>0.000370 J+</b>	0.000478 U	0.000327 U	0.000768 U	<b>0.0263 J+</b>	<b>0.00580 J+</b>	<b>1.37</b>	<b>0.0398</b>	<b>1.14</b>	
	B-241-50	4/4/18	PES	ESC	50	-10.92	-	-	-	0.000304 U	0.000489 U	0.000335 U	0.000787 U	<b>28.3</b>	<b>4.69</b>	<b>7.44</b>	<b>0.0330</b>	<b>0.488</b>	
	B-241-55	4/4/18	PES	ESC	55	-15.92	-	-	-	0.000314 U	0.000505 U	0.000346 U	0.000813 U	<b>7.75</b>	<b>2.11</b>	<b>2.01</b>	<b>0.00119</b>	<b>0.0575</b>	
	B-241-60	4/3/18	PES	ESC	60	-20.92	-	-	-	0.000302 U	0.000486 U	0.000333 U	0.000782 U	<b>0.0191</b>	<b>0.00284</b>	<b>0.00708</b>	0.000296 U	<b>0.00382</b>	
	B-241-65	4/3/18	PES	ESC	65	-25.92	-	-	-	<b>0.000470 J</b>	<b>0.000883 J</b>	0.000352 U	0.000826 U	<b>17.2</b>	<b>0.699</b>	<b>0.0585</b>	<b>0.000642 J</b>	<b>0.0156</b>	
	B-241-70	4/3/18	PES	ESC	70	-30.92	-	-	-	0.000312 U	0.000501 U	0.000343 U	0.000806 U	<b>0.0301</b>	<b>0.00161</b>	<b>0.0186</b>	0.000305 U	<b>0.00422</b>	
	B-241-75	4/3/18	PES	ESC	75	-35.92	-	-	-	0.000315 U	0.000506 U	0.000346 U	0.000814 U	<b>0.147 J+</b>	<b>0.0513 J+</b>	<b>0.358</b>	<b>0.000813 J+</b>	<b>0.0301 J+</b>	
	B-241-80	4/4/18	PES	ESC	80	-40.92	-	-	-	0.000310 U	0.000499 U	0.000341 U	0.000802 U	<b>0.0295</b>	<b>0.00759</b>	<b>0.0508</b>	0.000303 U	<b>0.00387</b>	
B-242	B-242-5	4/4/18	PES	ESC	5	33.84	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000758 U	<b>0.0116</b>	<b>0.00647</b>	<b>0.00494</b>	0.000287 U	0.000316 U	
	B-242-10	4/4/18	PES	ESC	10	28.84	-	-	-	0.000296 U	0.000475 U	0.000325 U	0.000764 U	<b>0.0783</b>	<b>0.00835</b>	<b>0.00156</b>	0.000289 U	0.000319 U	
	B-242-15	4/4/18	PES	ESC	15	23.84	-	-	-	0.000315 U	0.000506 U	0.000346 U	0.000814 U	<b>1.97</b>	<b>0.0304</b>	<b>0.00483</b>	0.000308 U	0.000339 U	
	B-242-20	4/4/18	PES	ESC	20	18.84	-	-	-	0.000306 U	0.000492 U	0.000336 U	0.000791 U	<b>6.61</b>	<b>0.0335</b>	<b>0.00878</b>	0.000299 U	0.000330 U	
	B-242-25	4/4/18	PES	ESC	25	13.84	-	-	-	0.0298 U	0.0478 U	0.0327 U	0.0769 U	<b>2.05</b>	0.0308 U	0.0259 U	0.0291 U	0.0321 U	
	B-242-30	4/4/18	PES	ESC	30	8.84	-	-	-	0.000302 U	0.000485 U	0.000332 U	0.000781 U	<b>0.205</b>	<b>0.000348 J</b>	<b>0.00101 J</b>	0.000295 U	<b>0.00828</b>	
	B-242-35	4/4/18	PES	ESC	35	3.84	-	-	-	0.000311 U	0.000500 U	0.000342 U	0.000804 U	<b>0.00754</b>	0.000321 U	<b>0.000439 J</b>	0.000304 U	0.000335 U	
	B-242-40	4/4/18	PES	ESC	40	-1.16	-	-	-	0.000295 U	0.000475 U	0.000325 U	0.000764 U	<b>0.0298</b>	<b>0.00181</b>	<b>0.00272</b>	0.000289 U	<b>0.000782 J</b>	
B-242-45	4/4/18	PES	ESC	45	-6.16	-	-	-	0.000312 U	0.000502 U	0.000344 U	0.000807 U	<b>0.00909</b>	0.000323 U	0.000272 U	0.000305 U	0.000337 U		

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
B-242 (continued)	B-242-50	4/4/18	PES	ESC	50	-11.16	-	-	-	0.000302 U	0.000486 U	0.000333 U	0.000782 U	<b>0.0273</b>	0.000312 U	0.000263 U	0.000296 U	0.000326 U	
	B-910-50	4/4/18	PES	ESC	50 (dup)	-11.16	-	-	-	0.000303 U	0.000487 U	0.000333 U	0.000783 U	<b>0.0276</b>	0.000313 U	0.000264 U	0.000296 U	0.000326 U	
	B-242-55	4/4/18	PES	ESC	55	-16.16	-	-	-	0.000297 U	0.000477 U	0.000326 U	0.000767 U	<b>0.0300</b>	0.000306 U	0.000258 U	0.000290 U	0.000320 U	
	B-242-60	4/4/18	PES	ESC	60	-21.16	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	<b>0.0303</b>	0.000308 U	0.000259 U	0.000291 U	0.000321 U	
	B-242-65	4/4/18	PES	ESC	65	-26.16	-	-	-	0.000292 U	0.000470 U	0.000322 U	0.000756 U	<b>0.00172</b>	0.000302 U	0.000254 U	0.000286 U	0.000315 U	
	B-242-70	4/4/18	PES	ESC	70	-31.16	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000799 U	0.000316 U	0.000320 U	0.000269 U	0.000302 U	0.000333 U	
	B-242-75	4/4/18	PES	ESC	75	-36.16	-	-	-	0.000300 U	0.000481 U	0.000329 U	0.000774 U	<b>0.0478 J+</b>	<b>0.000770 J+</b>	<b>0.00118 J+</b>	0.000293 U	0.000323 U	
	B-242-80	4/4/18	PES	ESC	80	-41.16	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	<b>0.00122</b>	0.000323 U	0.000272 U	0.000306 U	0.000337 U	
B-243	B-243-5	3/29/18	PES	ESC	5	34.88	0.0394 U	-	-	0.000314 U	0.000504 U	0.000345 U	0.000811 U	<b>0.0560</b>	0.000324 U	0.000273 U	0.000307 U	0.000338 U	
	B-243-10	3/29/18	PES	ESC	10	29.88	<b>0.619</b>	-	-	0.000307 U	0.000493 U	0.000337 U	0.000793 U	<b>6.96</b>	<b>0.00115</b>	<b>0.000267 J</b>	0.000300 U	0.000331 U	
	B-243-15	3/29/18	PES	ESC	15	24.88	<b>1.64 J</b>	-	-	0.000764 U	0.0122 U	0.00840 U	0.0197 U	<b>0.888</b>	0.00790 U	0.00665 U	0.00747 U	0.00824 U	
	B-243-20	3/29/18	PES	ESC	20	19.88	<b>1.11</b>	-	-	0.000311 U	0.000500 U	0.000342 U	0.000805 U	<b>25.3</b>	<b>0.0563 J+</b>	0.000271 U	0.000304 U	0.000336 U	
	B-243-25	3/29/18	PES	ESC	25	14.88	<b>0.568</b>	-	-	0.000301 U	0.000484 U	0.000331 U	0.000778 U	<b>6.66</b>	<b>0.0547</b>	0.000262 U	0.000294 U	0.000324 U	
	B-243-30	3/29/18	PES	ESC	30	9.88	<b>0.586</b>	-	-	0.000294 U	0.000473 U	0.000323 U	0.000760 U	<b>6.12</b>	<b>0.0763</b>	0.000256 U	0.000287 U	0.000317 U	
	B-243-35	3/29/18	PES	ESC	35	4.88	<b>0.491</b>	-	-	0.000299 U	0.000481 U	0.000329 U	0.000773 U	<b>11.0</b>	<b>0.0967</b>	<b>0.0121</b>	0.000292 U	0.000322 U	
	B-243-42	3/29/18	PES	ESC	42	-2.12	<b>0.724</b>	-	-	0.000295 U	0.000474 U	0.000325 U	0.000763 U	<b>9.04</b>	<b>0.834</b>	<b>1.40</b>	<b>0.000783 J</b>	<b>0.0160</b>	
	B-243-45	3/29/18	PES	ESC	45	-5.12	<b>0.820</b>	-	-	0.000293 U	0.000470 U	0.000322 U	0.000756 U	<b>12.2</b>	<b>1.87</b>	<b>0.569</b>	<b>0.000462 J</b>	<b>0.00310</b>	
	B-243-50	3/29/18	PES	ESC	50	-10.12	<b>5.12</b>	-	-	0.000312 U	0.000501 U	0.000343 U	0.000806 U	<b>29.0 J</b>	<b>7.72</b>	<b>16.0</b>	<b>0.00868</b>	<b>0.292</b>	
	IW-908-50	3/29/18	PES	ESC	50 (dup)	-10.12	-	-	-	0.000305 U	<b>0.000500 J</b>	0.000336 U	0.000790 U	<b>41.0 J</b>	<b>6.18</b>	<b>15.9</b>	<b>0.0113</b>	<b>0.404 J</b>	
	B-243-55	3/29/18	PES	ESC	55	-15.12	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000754 U	<b>14.4</b>	<b>0.0810</b>	<b>2.33</b>	<b>0.00776</b>	<b>0.307 J</b>	
	B-243-60	3/29/18	PES	ESC	60	-20.12	-	-	-	0.000309 U	0.000496 U	0.000339 U	0.000798 U	<b>10.3</b>	<b>2.34</b>	<b>6.30</b>	<b>0.00479</b>	<b>0.181 J</b>	
	B-243-65	3/29/18	PES	ESC	65	-25.12	-	-	-	0.000297 U	0.000477 U	0.000326 U	0.000767 U	<b>1.49</b>	<b>0.205</b>	<b>0.530</b>	<b>0.000888 J</b>	0.0607 U	
	B-243-70	3/29/18	PES	ESC	70	-30.12	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	<b>0.00378</b>	0.000323 U	0.000882 U	0.000306 U	<b>0.00207</b>	
	B-243-75	3/29/18	PES	ESC	75	-35.12	-	-	-	0.000322 U	0.000517 U	0.000354 U	0.000832 U	<b>0.0290</b>	<b>0.00173</b>	<b>0.00440</b>	0.000315 U	0.000347 U	
	B-243-80	3/29/18	PES	ESC	80	-40.12	-	-	-	0.000328 U	0.000527 U	0.000361 U	0.000848 U	<b>0.0300</b>	<b>0.00253</b>	<b>0.00775</b>	0.000321 U	<b>0.000385 J</b>	
B-244	B-244-5	3/28/18	PES	ESC	5	33.79	-	-	-	<b>0.00411</b>	<b>0.00127 J</b>	0.000375 U	<b>0.00133 J</b>	<b>0.0205</b>	<b>0.00511</b>	<b>0.00740</b>	0.000333 U	<b>0.00137</b>	
	B-244-10	3/28/18	PES	ESC	10	28.79	-	-	-	<b>0.000911 J</b>	<b>0.000594 J</b>	0.000354 U	0.000832 U	<b>0.00727</b>	<b>0.000767 J</b>	<b>0.00128</b>	0.000315 U	<b>0.000526 J</b>	
	B-244-15	3/28/18	PES	ESC	15	23.79	-	-	-	0.000308 U	0.000495 U	0.000339 U	0.000796 U	<b>0.00254</b>	<b>0.000615 J</b>	<b>0.000833 J</b>	0.000301 U	<b>0.00102 J</b>	
	B-244-20	3/28/18	PES	ESC	20	18.79	-	-	-	0.000306 U	0.000492 U	0.000337 U	0.000792 U	<b>0.000760 J</b>	<b>0.00185</b>	<b>0.00537</b>	<b>0.000309 J</b>	<b>0.000575 J</b>	
	B-244-25	3/28/18	PES	ESC	25	13.79	-	-	-	0.000286 U	0.000459 U	0.000314 U	0.000739 U	0.000292 U	<b>0.000296 J</b>	<b>0.00556</b>	0.000280 U	<b>0.00150</b>	
	B-244-30	3/28/18	PES	ESC	30	8.79	-	-	-	0.000295 U	0.000475 U	0.000325 U	0.000763 U	<b>0.00210</b>	0.000305 U	<b>0.0243</b>	<b>0.00106 J</b>	<b>0.00144</b>	
	B-244-35	3/28/18	PES	ESC	35	3.79	-	-	-	0.000310 U	0.000498 U	0.000341 U	0.000802 U	<b>0.0158</b>	<b>0.00357</b>	<b>0.0522</b>	<b>0.00211</b>	<b>0.00668</b>	
	B-244-40	3/28/18	PES	ESC	40	-1.21	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	<b>0.00131</b>	<b>0.000382 J</b>	<b>2.00</b>	<b>0.0665</b>	<b>1.35</b>	
	B-244-42	3/28/18	PES	ESC	42	-3.21	-	-	-	0.00759 U	0.0122 U	0.00835 U	0.0196 U	<b>0.237</b>	<b>0.0208 J</b>	<b>0.886</b>	<b>0.0882 J</b>	<b>0.256</b>	
	B-244-45	3/28/18	PES	ESC	45	-6.21	-	-	-	0.000304 U	0.000488 U	0.000334 U	0.000786 U	<b>0.0323</b>	<b>0.0212</b>	<b>5.01</b>	<b>0.0619</b>	<b>0.858</b>	
	B-244-50	3/28/18	PES	ESC	50	-11.21	-	-	-	0.000299 U	0.000480 U	0.000328 U	0.000772 U	<b>0.0352</b>	<b>0.0107</b>	<b>4.57</b>	<b>0.0339</b>	<b>0.0824</b>	
	B-244-55	3/28/18	PES	ESC	55	-16.21	-	-	-	0.000297 U	0.000478 U	0.000327 U	0.000769 U	<b>0.0635</b>	<b>0.0408</b>	<b>6.54</b>	<b>0.0502</b>	<b>0.0120</b>	
	B-244-60	3/28/18	PES	ESC	60	-21.21	-	-	-	0.000301 U	0.000485 U	0.000332 U	0.000779 U	<b>5.05</b>	<b>0.127</b>	<b>4.83</b>	<b>0.0297</b>	<b>0.0104</b>	
	B-244-65	3/28/18	PES	ESC	65	-26.21	-	-	-	<b>0.00184</b>	<b>0.000670 J</b>	0.000337 U	0.000791 U	<b>0.504</b>	<b>0.0970</b>	<b>0.918</b>	<b>0.0169</b>	<b>0.0244</b>	
	B-244-70	3/28/18	PES	ESC	70	-31.21	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000758 U	<b>0.0620 J</b>	<b>0.0320 J</b>	<b>6.08</b>	<b>0.0240</b>	<b>0.00878 J</b>	
	IW-907-70	3/28/18	PES	ESC	70 (dup)	-31.21	-	-	-	0.000294 U	0.000472 U	0.000323 U	0.000760 U	<b>0.0176 J</b>	<b>0.00987 J</b>	<b>6.39</b>	<b>0.0209</b>	<b>0.0139 J</b>	
	B-244-75	3/28/18	PES	ESC	75	-36.21	-	-	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	<b>0.00375</b>	<b>0.00183</b>	<b>5.77</b>	<b>0.00337</b>	<b>0.0252</b>	
B-244-80	3/28/18	PES	ESC	80	-41.21	-	-	-	0.000314 U	0.000505 U	0.000345 U	0.000811 U	<b>0.00219</b>	<b>0.000678 J</b>	<b>0.0188</b>	<b>0.000314 J</b>	<b>0.00399</b>		
B-245	B-245-5	3/28/18	PES	ESC	5	34.90	-	-	-	0.000294 U	0.000472 U	0.000323 U	0.000760 U	<b>0.00371</b>	0.000304 U	<b>0.000490 J</b>	0.000287 U	<b>0.00142</b>	
	B-245-10	3/28/18	PES	ESC	10	29.90	-	-	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	<b>0.00419</b>	0.000320 U	<b>0.00132</b>	0.000303 U	0.000334 U	
	B-245-15	3/28/18	PES	ESC	15	24.90	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	<b>0.0317</b>	<b>0.00188</b>	<b>0.00502</b>	0.000306 U	<b>0.000458 J</b>	
	B-245-20	3/28/18	PES	ESC	20	19.90	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000754 U	<b>0.00746</b>	<b>0.000868 J</b>	<b>0.00265</b>	0.000285 U	<b>0.000458 J</b>	
	B-245-25	3/28/18	PES	ESC	25	14.90	-	-	-	0.000306 U	0.000491 U	0.000336 U	0.000790 U	<b>0.00364</b>	<b>0.000464 J</b>	<b>0.00148</b>	0.000299 U	<b>0.000466 J</b>	
	B-245-30	3/29/18	PES	ESC	30	9.90	-	-	-	0.000580 U	0.000934 U	0.000638 U	<b>0.00150</b>	<b>0.0737</b>	<b>0.145</b>	<b>4.73</b>	<b>0.00437</b>	<b>0.224 J</b>	
	B-245-35	3/29/18	PES	ESC	35	4.90	-	-	-	<b>0.000419 J</b>	0.000488 U	0.000334 U	0.000785 U	<b>0.00623</b>	<b>0.00152</b>	<b>0.0564</b>	0.000297 U	<b>0.0194</b>	
	B-245-40	3/29/18	PES	ESC	40	-0.10	-	-	-	0.000301 U	0.000483 U	0.000331 U	0.000777 U	<b>0.0149</b>	<b>0.00287</b>	<b>0.107</b>	0.000294 U	<b>0.0204</b>	



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
B-245 (continued)	B-245-45	3/29/18	PES	ESC	45	-5.10				0.000300 U	0.000482 U	0.000330 U	0.000776 U	0.00112	0.000720 J	0.00725	0.000293 U	0.00491	
	B-245-50	3/29/18	PES	ESC	50	-10.10	-	-	-	0.000306 U	0.000492 U	0.000337 U	0.000791 U	0.00546	0.00370	0.0159	0.000299 U	0.0398	
	B-245-55	3/29/18	PES	ESC	55	-15.10	-	-	-	0.000304 U	0.000489 U	0.000335 U	0.000787 U	0.00226	0.00313	0.0583	0.000298 U	0.00776	
	B-245-60	3/29/18	PES	ESC	60	-20.10	-	-	-	0.000503 J	0.000465 U	0.000318 U	0.000748 U	0.00176	0.00181	0.0180	0.000283 U	0.00999	
	B-245-65	3/29/18	PES	ESC	65	-25.10	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000799 U	0.000656 J	0.000449 J	0.0101	0.000302 U	0.00929	
	B-245-70	3/29/18	PES	ESC	70	-30.10	-	-	-	0.000318 U	0.000325 U	0.000349 U	0.000821 U	0.000325 U	0.000328 U	0.000656 J	0.000311 U	0.00151	
	B-245-75	3/29/18	PES	ESC	75	-35.10	-	-	-	0.000304 U	0.000489 U	0.000335 U	0.000787 U	0.000311 U	0.000314 U	0.000841 J	0.000298 U	0.000623 J	
	B-245-80	3/29/18	PES	ESC	80	-40.10	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	0.000320 U	0.000323 U	0.000946 J	0.000306 U	0.000863 J	
B-246	B-246-6	5/11/18	PES	ESC	6	33.90	-	-	-	0.000475 U	0.00148 U	0.000629 U	0.00567 U	0.00396	0.00192	0.00324	0.00170 U	0.000811 U	
	B-246-11	5/11/18	PES	ESC	11	28.90	-	-	-	0.000472 U	0.00148 U	0.000626 U	0.00564 U	0.0271	0.00638	0.00531	0.00169 U	0.000807 U	
	B-246-15	5/11/18	PES	ESC	15	24.90	-	-	-	0.000583 J	0.00318 J	0.000599 U	0.00540 U	0.0616	0.0132	0.0196	0.00162 U	0.000772 U	
	B-246-25	5/11/18	PES	ESC	25	14.90	-	-	-	0.000447 U	0.00214 UJ	0.000593 U	0.00534 U	12.7	0.448	0.157	0.00745	0.000764 U	
	B-246-30	5/11/18	PES	ESC	30	9.90	-	-	-	0.000471 U	0.00172 J	0.000624 U	0.00563 U	6.98	0.162	3.36	0.00860	0.0308	
	B-246-35	5/11/18	PES	ESC	35	4.90	-	-	-	0.000461 U	0.00144 U	0.000611 U	0.00551 U	0.00548	0.000461 U	0.00505	0.00165 U	0.000787 U	
	B-246-40	5/11/18	PES	ESC	40	-0.10	-	-	-	0.000453 U	0.00142 U	0.000600 U	0.00541 U	4.07	0.280	0.255	0.00162 U	0.00735	
	B-246-43	5/11/18	PES	ESC	43	-3.10	-	-	-	0.000437 U	0.00143 J	0.000580 U	0.00523 U	0.00312	0.00780	0.330	0.00156 U	0.00339	
	B-246-45	5/11/18	PES	ESC	45	-5.10	-	-	-	0.000482 U	0.00477 J	0.000639 U	0.00576 U	0.000836 U	0.000999 J	0.00410	0.00172 U	0.000823 U	
	B-246-50	5/11/18	PES	ESC	50	-10.10	-	-	-	0.000450 U	0.00215 J	0.000596 U	0.00538 U	0.00576	0.000767 J	0.00150 J	0.00161 U	0.000768 U	
	B-246-55	5/11/18	PES	ESC	55	-15.10	-	-	-	0.000458 U	0.00446 J	0.000607 U	0.00547 U	0.00372	0.000650 J	0.00111 J	0.00164 U	0.000782 U	
	B-246-60	5/11/18	PES	ESC	60	-20.10	-	-	-	0.000454 U	0.00208 J	0.000601 U	0.00542 U	0.00493	0.000723 J	0.00153 J	0.00162 U	0.000775 U	
	B-246-65	5/11/18	PES	ESC	65	-25.10	-	-	-	0.000495 U	0.00178 J	0.000656 U	0.00591 U	0.00178 J	0.000495 U	0.0338	0.00177 U	0.0154	
	B-246-70	5/11/18	PES	ESC	70	-30.10	-	-	-	0.000445 UJ	0.00520 J	0.000589 UJ	0.00531 UJ	0.223 J	0.239 J	0.232 J	0.00159 UJ	0.00822 J	
	B-246-75	5/11/18	PES	ESC	75	-35.10	-	-	-	0.000463 U	0.00494 J	0.000614 U	0.00554 U	0.00130 J	0.000463 U	0.000799 U	0.00166 U	0.000791 U	
	B-246-80	5/11/18	PES	ESC	80	-40.10	-	-	-	0.000452 U	0.00141 U	0.000599 U	0.00540 U	0.000791 U	0.000452 U	0.000779 U	0.00162 U	0.000771 U	
	B-926-100	5/11/18	PES	ESC	45 (dup)	-5.10	-	-	-	0.000776 J	0.00231 J	0.000793 UJ	0.00716 UJ	0.0144 J	0.00359 J	0.0150 J	0.00214 UJ	0.00102 UJ	
B-247	B-247-5	4/20/18	PES	ESC	5	34.73	-	-	-	0.000306 U	0.000493 U	0.000337 U	0.000792 U	0.0594	0.00692	0.0478	0.000491 J	0.00114	
	B-247-10	4/20/18	PES	ESC	10	29.73	-	-	-	0.000311 U	0.000500 U	0.000342 U	0.000804 U	0.00586	0.00175	0.00459	0.000304 U	0.00173	
	B-247-15	4/20/18	PES	ESC	15	24.73	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000774 U	0.00415	0.00482	0.00577	0.000293 U	0.00221	
	B-247-20	4/20/18	PES	ESC	20	19.73	-	-	-	0.000301 U	0.000485 U	0.000332 U	0.000779 U	0.00432	0.000887 J	0.00682	0.000295 U	0.00718	
	B-247-25	4/20/18	PES	ESC	25	14.73	-	-	-	0.000294 U	0.000472 U	0.000323 U	0.000759 U	0.00244	0.000327 J	0.000271 J	0.000287 U	0.000411 J	
	B-247-30	4/20/18	PES	ESC	30	9.73	-	-	-	0.000297 U	0.000478 U	0.000327 U	0.000769 U	0.000984 J	0.000307 U	0.000409 J	0.000291 U	0.000651 J	
	B-247-35	4/20/18	PES	ESC	35	4.73	-	-	-	0.000298 U	0.000478 U	0.000327 U	0.000769 U	0.00128	0.000307 U	0.000430 J	0.000452 J	0.000321 U	
	B-247-40	4/20/18	PES	ESC	40	-0.27	-	-	-	0.000303 U	0.000487 U	0.000333 U	0.000784 U	0.00427	0.00104 J	0.00144	0.000386 J	0.000395 J	
	B-247-45	4/20/18	PES	ESC	45	-5.27	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000754 U	0.00230	0.000708 J	0.00979	0.000306 J	0.00279	
	B-247-50	4/20/18	PES	ESC	50	-10.27	-	-	-	0.000297 U	0.000478 U	0.000327 U	0.000768 U	0.000304 U	0.000307 U	4.71	0.0711	0.779	
	B-247-55	4/20/18	PES	ESC	55	-15.27	-	-	-	0.000305 U	0.000490 U	0.000335 U	0.000788 U	0.000312 U	0.000315 U	0.0125	0.000318 J	0.0367	
	B-247-60	4/20/18	PES	ESC	60	-20.27	-	-	-	0.000291 U	0.000468 U	0.000320 U	0.000752 U	0.000297 U	0.000301 U	0.0754	0.000984 J	0.0672	
	B-247-65	4/20/18	PES	ESC	65	-25.27	-	-	-	0.000434 J	0.000484 U	0.000331 U	0.000779 U	0.00103 J	0.000311 U	0.00500	0.000295 U	0.000779 U	
	B-247-70	4/20/18	PES	ESC	70	-30.27	-	-	-	0.000303 U	0.000486 U	0.000333 U	0.000782 U	0.000309 U	0.000313 U	0.000306 J	0.000296 U	0.000326 U	
	B-247-75	4/20/18	PES	ESC	75	-35.27	-	-	-	0.000309 U	0.000496 U	0.000340 U	0.000798 U	0.000316 U	0.000319 U	0.00237	0.000302 U	0.0123	
	B-247-80	4/20/18	PES	ESC	80	-40.27	-	-	-	0.000302 U	0.000485 U	0.000332 U	0.000780 U	0.000309 U	0.000312 U	0.00249	0.000295 U	0.00344	
	B-909-20	4/20/18	PES	ESC	80 (dup)	-40.27	-	-	-	0.000292 U	0.000470 U	0.000321 U	0.000756 U	0.000299 U	0.000302 U	0.00164	0.000286 U	0.00310	
B-248	B-248-5	4/23/18	PES	ESC	5	46.85	-	-	-	0.000308 U	0.000495 U	0.0003390 U	0.000797 U	0.00318	0.000318 UJ	0.000268 U	0.000301 U	0.000332 U	
	B-248-10	4/23/18	PES	ESC	10	41.85	-	-	-	0.000301 U	0.000484 U	0.000331 U	0.000778 UJ	0.0178	0.00126 J	0.000511 U	0.000294 U	0.000324 U	
	B-248-15	4/23/18	PES	ESC	15	36.85	-	-	-	0.000440 U	0.00137 U	0.000583 U	0.00526 U	0.118	0.00378	0.00113 U	0.00157 U	0.000751 U	
	B-248-20	4/23/18	PES	ESC	20	31.85	-	-	-	0.000292 U	0.00469 U	0.000321 U	0.000755 UJ	0.0238	0.00233 J	0.00426 J+	0.000286 U	0.000315 U	
	B-248-25	4/23/18	PES	ESC	25	26.85	-	-	-	0.000469 U	0.00147 U	0.000622 U	0.005610 U	0.621	0.0667	0.0426 J+	0.00168 U	0.000801 U	
	B-248-30	4/23/18	PES	ESC	30	21.85	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000755 UJ	0.00255 J	0.00297 J	0.00122	0.000285 U	0.000315 U	
	B-248-35	4/23/18	PES	ESC	35	16.85	-	-	-	0.000442 J	0.00178 J	0.000574 U	0.00518 U	0.122	0.0456	0.142 J+	0.00155 U	0.000740 U	
	B-248-40	4/23/18	PES	ESC	40	11.85	-	-	-	0.000463 J	0.00139 U	0.000591 U	0.00533 U	0.200	0.0599	0.0429 J+	0.00159 U	0.00574	
B-248-45	4/23/18	PES	ESC	45	6.85	-	-	-	0.000865 J	0.00143 J	0.000605 U	0.00546 U	0.0248	0.00566	0.00492 J+	0.00163 U	0.000780 U		

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)													
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050		
B-248 (continued)	B-248-50	4/23/18	PES	ESC	50	1.85	-	-	-	0.000945 J-	0.00163 J-	0.000579 UJ	0.00523 UJ	0.0109 J-	0.00177 J-	0.00350 J+	0.00156 UJ	0.00167 U		
	B-248-55	4/23/18	PES	ESC	55	-3.15	-	-	-	0.000320 U	0.000514 U	0.000352 U	0.000826 UJ	0.000327 U	0.000330 UJ	0.000278 U	0.000312 U	0.000344 U		
	B-248-60	4/23/18	PES	ESC	60	-8.15	-	-	-	0.000549 J	0.00134 U	0.000568 U	0.00512 U	0.167	0.0244	0.553 J+	0.0144	0.0121		
	B-248-65	4/23/18	PES	ESC	65	-13.15	-	-	-	0.000492 U	0.00154 U	0.000652 U	0.00588 U	0.000861 U	0.000492 U	0.0215 J+	0.00176 U	0.00629		
	B-248-70	4/23/18	PES	ESC	70	-18.15	-	-	-	0.000460 U	0.00144 U	0.000609 U	0.00549 U	0.000804 U	0.000460 U	0.00436 J+	0.00164 U	0.00315		
	B-248-75	4/23/18	PES	ESC	75	-23.15	-	-	-	0.000449 UJ	0.00140 UJ	0.000595 UJ	0.00537 UJ	0.000786 UJ	0.000449 UJ	0.136 J+	0.00161 UJ	0.0124 J-		
	B-248-80	4/23/18	PES	ESC	80	-28.15	-	-	-	0.000324 U	0.000521 U	0.000357 U	0.000839 UJ	0.000332 UJ	0.000439 J	0.00448	0.000317 U	0.00140		
	B-910-20	4/23/18	PES	ESC	80 (dup)	-28.15	-	-	-	0.000333 U	0.000536 U	0.000367 U	0.000861 UJ	0.000341 U	0.000344 UJ	0.000290 U	0.000326 U	0.000581 J		
	B-248-85	4/23/18	PES	ESC	85	-33.15	-	-	-	0.000328 U	0.000527 U	0.000361 U	0.000848 UJ	0.000335 U	0.000339 UJ	0.00261	0.000321 U	0.000378 J		
	B-248-90	4/23/18	PES	ESC	90	-38.15	-	-	-	0.000323 U	0.000519 U	0.000355 U	0.000835 UJ	0.000330 U	0.000334 UJ	0.000415 J	0.000316 U	0.000348 U		
	B-248-95	4/23/18	PES	ESC	95	-43.15	-	-	-	0.000337 U	0.000541 U	0.000370 U	0.000870 UJ	0.000344 U	0.000348 UJ	0.000293 U	0.000329 U	0.000363 U		
	B-248-100	4/23/18	PES	ESC	100	-48.15	-	-	-	0.000328 U	0.000526 U	0.000360 U	0.000847 UJ	0.000335 U	0.000338 UJ	0.00541	0.000320 U	0.000881 J		
	B-248-105	4/23/18	PES	ESC	105	-53.15	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000754 UJ	0.0102	0.0562 J	0.00880	0.00141	0.000314 U		
	B-248-110	4/23/18	PES	ESC	110	-58.15	-	-	-	0.000459 U	0.00143 U	0.000608 U	0.00549 U	0.00185 U	0.0113 U	0.00624 J+	0.00379 J	0.000784 U		
	B-248-115	4/23/18	PES	ESC	115	-63.15	-	-	-	0.000316 U	0.000507 U	0.000347 U	0.000816 UJ	0.00125 UJ	0.00615 J	0.00480	0.000309 U	0.000418 J		
B-249	B-249-5	10/15/18	PES	Pace	5	34.24	-	-	-	0.000418 U	0.00131 U	0.000554 U	0.00500 U	0.122 J	0.0109	0.0102	0.00149 U	0.000714 U		
	B-249-8	10/15/18	PES	Pace	8	31.24	-	-	-	0.000451 U	0.00141 U	0.000598 U	0.00539 U	0.949 J	0.0828	0.0287	0.00161 U	0.000771 U		
	B-249-15	10/15/18	PES	Pace	15	24.24	-	-	-	0.000463 U	0.00236 J	0.00143 J	0.00973	1.97 J	0.214	0.0692	0.00166 U	0.000791 U		
	B-249-17	10/15/18	PES	Pace	17	22.24	-	-	-	0.000453 U	0.00142 U	0.000600 U	0.00541 U	8.35 J	0.150	0.0459	0.00162 U	0.000773 U		
	B-249-20	10/15/18	PES	Pace	20	19.24	-	-	-	0.000473 U	0.00148 U	0.000626 U	0.00565 U	10.3	0.661	0.558	0.00420 J	0.000807 U		
B-250	B-250-2.5	10/15/18	PES	Pace	2.5	36.89	-	-	-	0.000442 U	0.00138 U	0.000585 U	0.00528 U	0.701 J	0.00576	0.00164 J	0.00158 U	0.000754 U		
	B-250-8	10/15/18	PES	Pace	8	31.39	-	-	-	0.000445 U	0.00139 U	0.000590 U	0.00532 U	1.81 J	0.0269	0.00387	0.00159 U	0.000760 U		
	B-250-10	10/15/18	PES	Pace	10	29.39	-	-	-	0.000445 U	0.00139 U	0.000590 U	0.00532 U	21.7 J	0.0762	0.123	0.00166 J	0.000760 U		
	B-250-13	10/15/18	PES	Pace	13	26.39	-	-	-	0.000449 U	0.00140 U	0.000595 U	0.00537 U	18.2 J	0.553	0.288	0.00285 J	0.000767 U		
	B-250-20	10/15/18	PES	Pace	20	19.39	-	-	-	0.000463 U	0.00145 U	0.000614 U	0.00554 U	8.68 J	0.528	0.833	0.00435 J	0.00304		
	B-250-24	10/15/18	PES	Pace	24	15.39	-	-	-	0.000438 U	0.00137 U	0.000580 U	0.00523 U	7.69	0.407	0.614	0.00344 J	0.00318		
	B-250-30	10/16/18	PES	Pace	30	9.39	-	-	-	0.000436 U	0.00259 J	0.000590 J	0.00521 U	0.288	0.0519	0.533	0.0138	0.358		
B-251	B-251-5	10/15/18	PES	Pace	5	34.25	-	-	-	0.000420 U	0.00131 U	0.000557 U	0.00502 U	0.0286	0.146	0.0153	0.00150 U	0.000718 R		
	B-251-8	10/15/18	PES	Pace	8	31.25	-	-	-	0.000444 U	0.00139 U	0.000588 U	0.00530 U	0.230	0.135	0.0879	0.00159 U	0.000758 U		
	B-251-10	10/15/18	PES	Pace	10	29.25	-	-	-	0.000445 U	0.00139 U	0.00059 U	0.00532 U	10.3	0.0501	0.0191	0.00159 U	0.000760 U		
	B-251-15	10/15/18	PES	Pace	15	24.25	-	-	-	0.000452 U	0.00141 U	0.000599 U	0.00540 U	12.0	0.102	0.0366	0.00162 U	0.000772 U		
	B-251-20	10/15/18	PES	Pace	20	19.25	-	-	-	0.000468 U	0.00146 U	0.000621 U	0.00560 U	6.66	0.154	0.0474	0.00167 U	0.000800 U		
	B-251-25	10/15/18	PES	Pace	25	14.25	-	-	-	0.000459 U	0.00144 U	0.000609 U	0.00549 U	6.09	0.512	0.191	0.00164 U	0.000785 U		
B-252	B-252-2.5	10/15/18	PES	Pace	2.5	36.67	-	-	-	0.000418 U	0.00131 U	0.000554 U	0.00499 U	0.306	0.0201	0.0146	0.00149 U	0.000714 U		
	B-252-8	10/15/18	PES	Pace	8	31.17	-	-	-	0.000428 U	0.00134 U	0.000567 U	0.00511 U	0.0783	0.0156	0.0312	0.00153 U	0.000731 U		
	B-252-10	10/15/18	PES	Pace	10	29.17	-	-	-	0.000443 U	0.00139 U	0.000588 U	0.0053 U	0.356	0.0503	0.0600	0.00159 U	0.000757 U		
	B-252-15	10/15/18	PES	Pace	15	24.17	-	-	-	0.000471 U	0.00147 U	0.000624 U	0.00563 U	3.43	0.682	0.340	0.00168 U	0.000805 U		
	B-252-19	10/15/18	PES	Pace	19	20.17	-	-	-	0.000483 U	0.00151 U	0.000640 U	0.00577 U	2.88	-	1.36	0.00231 J	0.138 J		
	B-252-25	10/15/18	PES	Pace	25	14.17	-	-	-	0.000439 U	0.00137 U	0.000582 U	0.00525 U	1.35	0.266	0.207	0.00157 U	0.00602		
	B-252-29	10/15/18	PES	Pace	29	10.17	-	-	-	0.000458 U	0.00143 U	0.000606 U	0.00547 U	1.99	0.483	0.484	0.00656	0.00634		
B-253A	B-253A-5	10/18/18	PES	Pace	5	35.59	-	-	-	0.000456 U	0.00195 J	0.000604 U	0.00544 U	0.0116 J	0.0285	0.0322	0.00163 U	0.000778 U		
	B-253A-8	10/18/18	PES	Pace	8	32.59	-	-	-	0.000451 U	0.00193 J	0.000597 U	0.00538 U	0.917 J	0.00621	0.00584	0.00161 U	0.000769 U		
	B-253A-10	10/18/18	PES	Pace	10	30.59	-	-	-	0.000438 U	0.00137 U	0.000581 U	0.00524 U	2.29 J	0.00740	0.00458	0.00157 U	0.000748 U		
	B-253A-15	10/18/18	PES	Pace	15	25.59	-	-	-	0.000449 U	0.00193 J	0.000595 U	0.00537 U	15.7 J	0.0186 J	0.00229 J	0.00161 U	0.000767 U		
	B-253A-20	10/18/18	PES	Pace	20	20.59	-	-	-	0.000441 U	0.00138 U	0.000584 U	0.00526 U	0.868 J	0.00529	0.000760 U	0.00158 U	0.000752 U		
B-254	B-254-5	10/16/18	PES	Pace	5	34.65	-	-	-	0.000479 U	0.00150 U	0.000635 UJ	0.00572 U	9.35	0.0662	0.0425	0.00171 U	0.0654 U		
	B-254-10	10/16/18	PES	Pace	10	29.65	-	-	-	0.000454 U	0.00142 U	0.000602 UJ	0.00543 U	3.09	0.0173	0.0251	0.00162 U	0.0111 J		
	B-254-13.5	10/16/18	PES	Pace	13.5	26.15	-	-	-	0.000469 U	0.00152 J	0.000622 UJ	0.00561 U	42.2	0.353	0.366	0.00740	0.320 U		
	B-254-20	10/16/18	PES	Pace	20	19.65	-	-	-	0.000430 U	0.00134 U	0.000570 UJ	0.00514 U	28.0	0.228	0.182	0.00222 J	0.147 U		
	B-254-25	10/16/18	PES	Pace	25	14.65	-	-	-	0.000447 U	0.00321 J	0.000655 J	0.00534 U	46.7	0.681	1.20	0.00449 J	0.305 U		

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
B-254A	B-254A-27	10/19/18	PES	Pace	27	12.65	-	-	-	0.000437 U	0.00161 J	0.000578 U	0.00522 U	0.0954	0.0118	0.165	0.00156 U	0.0508	
	B-254A-30	10/19/18	PES	Pace	30	9.65	-	-	-	0.000430 U	0.00166 J	0.000570 U	0.00514 U	6.24	0.143	0.0964	0.00154 U	0.000735 U	
	B-254A-35	10/19/18	PES	Pace	35	4.65	-	-	-	0.000421 UJ	0.00132 UJ	0.000558 UJ	0.00504 UJ	0.0584 J	0.000679 J	0.143 J	0.00151 UJ	0.0326 J	
B-255	B-255-3.5	10/16/18	PES	Pace	3.5	36.32	-	-	-	0.000457 U	0.00143 U	0.000605 UJ	0.00546 U	0.0927	0.00586	0.0101	0.00163 U	0.000780 U	
	B-255-8	10/16/18	PES	Pace	8	31.82	-	-	-	0.000463 U	0.00145 U	0.000614 UJ	0.00554 U	0.0420	0.0342	0.0118	0.00166 U	0.000791 U	
	B-255-15	10/16/18	PES	Pace	15	24.82	-	-	-	0.000436 U	0.00136 U	0.000577 UJ	0.00521 U	1.23	0.0362	0.0294	0.00156 U	0.00247 J	
B-255A	B-255A-21	10/16/18	PES	Pace	21	18.82	-	-	-	0.000423 U	0.00132 U	0.000720 J	0.00506 U	18.9	3.11	2.74	0.00577	0.0532 J	
B-256	B-256-2.5	10/16/18	PES	Pace	2.5	37.11	-	-	-	0.000468 U	0.00146 U	0.000620 UJ	0.00559 U	0.055	0.0532	0.0273	0.00167 U	0.0123	
	B-256-5	10/16/18	PES	Pace	5	34.61	-	-	-	0.000442 U	0.00138 U	0.000585 UJ	0.00528 U	0.0193	0.0162 J	0.0190	0.00158 U	0.0155	
	B-256-10	10/16/18	PES	Pace	10	29.61	-	-	-	0.000427 U	0.00134 U	0.000566 UJ	0.00511 U	0.589	0.182	0.548	0.00197 J	0.0359	
	B-256-15	10/16/18	PES	Pace	15	24.61	-	-	-	0.000443 U	0.00138 U	0.000587 UJ	0.00529 U	0.324	0.0863	0.768	0.00510 J	0.0715	
	B-256-18	10/16/18	PES	Pace	18	21.61	-	-	-	0.000443 U	0.00138 U	0.000586 UJ	0.00529 U	0.207	0.0126	0.143	0.00158 U	0.0170	
B-257	B-257-5	10/17/18	PES	Pace	5	34.38	-	-	-	0.000484 U	0.00151 U	0.000642 UJ	0.00579 U	0.0333	0.0356	0.0699	0.00173 U	0.00478	
	B-257-10	10/17/18	PES	Pace	10	29.38	-	-	-	0.000447 U	0.00140 U	0.000592 UJ	0.00534 U	1.75	0.183	0.481	0.00474 J	0.0252	
	B-257-15	10/17/18	PES	Pace	15	24.38	-	-	-	0.000465 U	0.00145 U	0.000616 UJ	0.00555 U	1.26	0.134	0.364	0.00411 J	0.000793 U	
	B-257-20	10/17/18	PES	Pace	20	19.38	-	-	-	0.000450 U	0.00140 U	0.000596 UJ	0.00537 U	2.06	0.455	1.67	0.00652	0.226	
B-258	B-258-3	10/17/18	PES	Pace	3	36.17	-	-	-	0.000438 U	0.00137 U	0.000581 UJ	0.00524 U	0.0198	0.00793	0.0116	0.00157 U	0.000748 U	
	B-258-8	10/17/18	PES	Pace	8	31.17	-	-	-	0.000455 U	0.00142 U	0.000603 U	0.00544 U	0.0619	0.00635	0.00236 J	0.00163 U	0.000777 U	
	B-258-10	10/17/18	PES	Pace	10	29.17	-	-	-	0.000479 U	0.0015 U	0.000634 U	0.00572 U	0.538	0.0149	0.00481	0.00171 U	0.000817 U	
	B-258-15	10/17/18	PES	Pace	15	24.17	-	-	-	0.00044 U	0.00148 U	0.000625 U	0.00564 U	16.2	0.0763	0.0119	0.00169 U	0.000806 U	
	B-258-20	10/17/18	PES	Pace	20	19.17	-	-	-	0.000446 U	0.00140 U	0.000592 U	0.00533 U	3.71	0.0117	0.0135	0.00160 U	0.000762 U	
B-259	B-259-2.5	10/17/18	PES	Pace	2.5	36.68	-	-	-	0.000450 U	0.00189 J	0.000597 U	0.00538 U	0.0784	0.00504	0.00815	0.00161 U	0.000769 U	
	B-259-5	10/17/18	PES	Pace	5	34.18	-	-	-	0.000438 U	0.00137 U	0.000581 U	0.00524 U	0.00933	0.00910	0.0696	0.00157 U	0.00121 J	
	B-259-10	10/17/18	PES	Pace	10	29.18	-	-	-	0.000458 U	0.00224 J	0.000607 U	0.00548 U	0.00535	0.00372	0.105	0.00164 U	0.00257 J	
	B-259-15	10/17/18	PES	Pace	15	24.18	-	-	-	0.000470 U	0.00152 J	0.000622 U	0.00561 U	0.0251	0.0103	0.715	0.00395 J	0.166	
	B-259-20	10/17/18	PES	Pace	20	19.18	-	-	-	0.000447 U	0.00140 U	0.000592 U	0.00534 U	0.697	0.253	0.718	0.00160 U	0.0191	
B-260	B-260-5	10/17/18	PES	Pace	5	34.24	-	-	-	0.000444 U	0.00139 U	0.000588 U	0.00530 U	0.0785	0.00667	0.0185	0.00159 U	0.000757 U	
	B-260-8	10/17/18	PES	Pace	8	31.24	-	-	-	0.000449 UJ	0.00153 J	0.000595 U	0.00536 U	0.0294 J+	0.00771 J	0.142	0.00182 J	0.00269 J	
	B-260-10	10/17/18	PES	Pace	10	29.24	-	-	-	0.000459 U	0.00143 U	0.000608 U	0.00549 U	0.0106	0.00211	0.568	0.00241 J	0.0103	
	B-260-15	10/17/18	PES	Pace	15	24.24	-	-	-	0.004650 U	0.00165 J	0.000615 U	0.00555 U	9.92	1.98	0.414	0.00349 J	0.0101	
	B-260-20	10/17/18	PES	Pace	20	19.24	-	-	-	0.004420 U	0.00138 U	0.000586 U	0.00528 U	8.23	1.38	0.588	0.00158 U	0.00167 J	
B-261	B-261-3	10/17/18	PES	Pace	3	36.89	-	-	-	0.000457 U	0.00143 U	0.000606 U	0.00546 U	0.0198	0.000584 J	0.00244 J	0.00163 U	0.000780 U	
	B-261-5	10/17/18	PES	Pace	5	34.89	-	-	-	0.0362 U	0.00151 J	0.000600 U	0.00541 U	25.2 J+	0.0362 U	0.00255 J	0.00162 U	0.000773 U	
	B-261-8	10/17/18	PES	Pace	8	31.89	-	-	-	0.00479 U	0.00162 J	0.000635 U	0.00573 U	7.13	0.00479 U	0.00234 J	0.00171 U	0.000818 U	
	B-261-10	10/17/18	PES	Pace	10	29.89	-	-	-	0.0184 U	0.00144 U	0.000611 U	0.00551 U	25.3 J+	0.0184 U	0.00359	0.00165 U	0.000787 U	
	B-261-15	10/17/18	PES	Pace	15	24.89	-	-	-	0.00879 U	0.00137 U	0.000582 U	0.00525 U	13.1	0.0284	0.00353	0.00157 U	0.000750 U	
	B-261-20	10/17/18	PES	Pace	20	19.89	-	-	-	0.0899 U	0.00203 J	0.000806 J	0.00537 U	112 J+	0.908	0.105	0.00200 J	0.000768 U	
B-262	B-262-5	10/17/18	PES	Pace	5	34.88	-	-	-	0.000471 U	0.00858	0.00214 J	0.00775	14.4 J	0.0142	0.0650 U	0.00168 U	0.000805 U	
	B-262-8	10/17/18	PES	Pace	8	31.88	-	-	-	0.000440 U	0.00137 U	0.000583 U	0.00526 U	0.612	0.00725	0.00981	0.00157 U	0.000751 U	
	B-262-10	10/17/18	PES	Pace	10	29.88	-	-	-	0.000445 U	0.00139 U	0.00059 U	0.00532 U	0.495	0.00390	0.00190 J	0.00159 U	0.000761 U	
	B-262-15	10/17/18	PES	Pace	15	24.88	-	-	-	0.000439 U	0.00137 U	0.000582 U	0.00525 U	1.81	0.0301	0.00332	0.00157 U	0.000750 U	
	B-262-20	10/17/18	PES	Pace	20	19.88	-	-	-	0.000471 U	0.00147 U	0.000624 U	0.00563 U	2.05 J	0.0634	0.0429	0.00168 U	0.000804 U	
B-263	B-263-3	10/18/18	PES	Pace	3	36.78	-	-	-	0.000490 U	0.00153 U	0.000649 U	0.00585 U	0.0143	0.000626 J	0.00113 J	0.00175 U	0.000836 U	
	B-263-5	10/18/18	PES	Pace	5	34.78	-	-	-	0.000432 U	0.00135 U	0.000573 U	0.00517 U	0.0302	0.00438	0.0164	0.00155 U	0.000738 U	
	B-263-8	10/18/18	PES	Pace	8	31.78	-	-	-	0.000422 U	0.00132 U	0.000559 U	0.00504 U	0.0301	0.00471	0.0277	0.00151 U	0.00072 U	
	B-263-10	10/18/18	PES	Pace	10	29.78	-	-	-	0.000455 U	0.00142 U	0.000603 U	0.00544 U	0.0321	0.00106 J	0.000785 U	0.00163 U	0.000777 U	
	B-263-15	10/18/18	PES	Pace	15	24.78	-	-	-	0.000437 U	0.00136 U	0.000579 U	0.00522 U	0.0558	0.00523	0.0170	0.00156 U	0.000746 U	
	B-263-18	10/18/18	PES	Pace	18	21.78	-	-	-	0.000434 U	0.00136 U	0.000575 U	0.00519 U	0.416	0.0154	0.0894	0.00155 U	0.00733	
B-264	B-264-3	10/18/18	PES	Pace	3	36.84	-	-	-	0.000434 U	0.00136 U	0.000576 U	0.00519 U	0.200	0.00630	0.000749 U	0.00155 U	0.000742 U	
	B-264-5	10/18/18	PES	Pace	5	34.84	-	-	-	0.000463 U	0.00145 U	0.000613 U	0.00553 U	0.096	0.00185	0.000799 U	0.00165 U	0.00079 U	
	B-264-8	10/18/18	PES	Pace	8	31.84	-	-	-	0.000457 U	0.00143 U	0.000606 U	0.00546 U	0.415	0.00376	0.000789 U	0.00163 U	0.000781 U	



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																		
							Screening Levels							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050							
B-264 (continued)	B-264-10	10/18/18	PES	Pace	10	29.84	-	-	-	0.000441 U	0.00138 U	0.000584 U	0.00527 U	1.3	0.00533	0.000760 U	0.00158 U	0.000752 U							
	B-264-15	10/18/18	PES	Pace	15	24.84	-	-	-	0.000465 U	0.00145 U	0.000617 U	0.00556 U	0.663	0.00852	0.000940 J	0.00166 U	0.00303							
	B-264-16	10/18/18	PES	Pace	16	23.84	-	-	-	0.00115	0.00291 J	0.000595 U	0.00537 U	0.199	0.00250	0.00250 J	0.00161 U	0.000767 U							
B-265	B-265-3	10/18/18	PES	Pace	3	36.84	-	-	-	0.000477 U	0.00150 J	0.000632 U	0.00570 U	0.154	0.00198	0.00118 J	0.00171 U	0.000815 U							
	B-265-5	10/18/18	PES	Pace	5	34.84	-	-	-	0.000464 U	0.00145 U	0.000614 U	0.00554 U	1.57 UJ	0.00413	0.00391	0.00166 U	0.000791 U							
	B-265-8	10/18/18	PES	Pace	8	31.84	-	-	-	0.000447 U	0.00140 U	0.000592 U	0.00534 U	2.37 J	0.00473	0.00354	0.00160 U	0.000762 U							
	B-265-10	10/18/18	PES	Pace	10	29.84	-	-	-	0.000440 U	0.00137 U	0.000583 U	0.00526 U	1.15 J	0.00325	0.00135 J	0.00157 U	0.000751 U							
	B-265-17.5	10/18/18	PES	Pace	18	22.34	-	-	-	0.000443 U	0.00138 U	0.000586 U	0.00529 U	0.0155 J	0.000443 U	0.000763 U	0.00158 U	0.000756 U							
B-266	B-266-5	10/18/18	PES	Pace	5	35.72	-	-	-	0.000487 U	0.00546 J	0.000646 U	0.00582 U	0.0153 J	0.00639	0.00515	0.00174 U	0.000832 U							
	B-266-8	10/18/18	PES	Pace	8	32.72	-	-	-	0.000509 U	0.00302 J	0.000675 U	0.00609 U	0.00703 J	0.00919	0.00854	0.00182 U	0.000869 U							
	B-266-10	10/18/18	PES	Pace	10	30.72	-	-	-	0.000644 U	0.00201 U	0.000853 U	0.00769 U	0.00843 J	0.00315	0.00620	0.00231 U	0.0011 U							
	B-266-15	10/18/18	PES	Pace	15	25.72	-	-	-	0.000534 U	0.00296 J	0.000707 U	0.00637 U	1.79 J	0.00212	0.000920 U	0.00191 U	0.000911 U							
	B-266-20	10/18/18	PES	Pace	20	20.72	-	-	-	0.000446 U	0.00330 J	0.000591 U	0.00533 U	5.70 J	0.1110	0.0195	0.00159 U	0.000761 U							
B-267	B-267-2.5	10/18/18	PES	Pace	2.5	37.39	-	-	-	0.000481 U	0.00150 U	0.000637 U	0.00574 U	0.00171 J	0.000481 U	0.000829 U	0.00172 U	0.000821 U							
	B-267-5	10/18/18	PES	Pace	5	34.89	-	-	-	0.000436 U	0.00570	0.000578 U	0.00521 U	0.138	0.000945 J	0.000753 U	0.00156 U	0.000745 U							
	B-267-8	10/18/18	PES	Pace	8	31.89	-	-	-	0.000477 U	0.00149 U	0.000632 U	0.00570 U	0.604 J	0.00123	0.000823 U	0.00171 U	0.000815 U							
	B-267-10	10/18/18	PES	Pace	10	29.89	-	-	-	0.000452 U	0.00188 J	0.000599 U	0.00540 U	0.517 J	0.00270	0.000780 U	0.00162 U	0.000772 U							
	B-267-15	10/18/18	PES	Pace	15	24.89	-	-	-	0.00894 U	0.0279 U	0.0118 U	0.107 U	7.72	0.0853	0.0154 U	0.0320 U	0.0153 U							
	B-267-20	10/18/18	PES	Pace	20	19.89	-	-	-	0.00994 U	0.0310 U	0.0132 U	0.119 U	8.01	0.102	0.0171 U	0.0356 U	0.0170 U							
DB01	DB01-10	3/18/13	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.042	0.03 U	0.05 U	0.05 U	0.05 U							
	DB01-20	3/18/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB01-30	3/18/13	SES	F&BI	30	10.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB01-40	3/18/13	SES	F&BI	40	0.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
DB02	DB02-10	3/18/13	SES	F&BI	10	26.00	2 U	50 U	250 U	0.02 U	0.02 U	0.02 U	0.06 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB02-15	3/18/13	SES	F&BI	15	21.00	2 U	50 U	250 U	0.02 U	0.02 U	0.02 U	0.06 U	-	-	-	-	-							
	DB02-20	3/18/13	SES	F&BI	20	16.00	-	-	-	-	-	-	-	0.22	0.03 U	0.05 U	0.05 U	0.05 U							
	DB02-30	3/18/13	SES	F&BI	30	6.00	-	-	-	-	-	-	-	0.058	0.03 U	0.05 U	0.05 U	0.05 U							
	DB02-40	3/18/13	SES	F&BI	40	-4.00	-	-	-	-	-	-	-	2.0	0.060	0.05 U	0.05 U	0.05 U							
DB03	DB03-05	3/27/13	SES	F&BI	5	35.00	-	-	-	-	-	-	-	0.061	0.06 U	0.1 U	0.1 U	0.1 U							
	DB03-20	3/27/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB03-35	3/27/13	SES	F&BI	35	5.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB03-45	3/27/13	SES	F&BI	45	-5.00	-	-	-	-	-	-	-	2.7	0.03 U	0.05 U	0.05 U	0.05 U							
	DB03-55	3/27/13	SES	F&BI	55	-15.00	-	-	-	-	-	-	-	3.6	0.11	0.05 U	0.05 U	0.05 U							
	DB03-60	3/27/13	SES	F&BI	60	-20.00	-	-	-	-	-	-	-	3.4	0.23	0.15	0.05 U	0.05 U							
DB04	DB04-10	3/21/13	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.17	0.03 U	0.05 U	0.05 U	0.05 U							
	DB04-20	3/21/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	4.5	0.03 U	0.05 U	0.05 U	0.05 U							
	DB04-35	3/21/13	SES	F&BI	35	5.00	-	-	-	-	-	-	-	8.0	0.03 U	0.05 U	0.05 U	0.05 U							
	DB04-45	3/21/13	SES	F&BI	45	-5.00	-	-	-	-	-	-	-	0.28	0.03 U	0.05 U	0.05 U	0.05 U							
	DB04-50	3/22/13	SES	F&BI	50	-10.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB04-60	3/22/13	SES	F&BI	60	-20.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
DB05	DB05-10	3/26/13	SES	F&BI	10	41.80	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB05-20	3/26/13	SES	F&BI	20	31.80	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB05-30	3/26/13	SES	F&BI	30	21.80	-	-	-	-	-	-	-	3.2	0.040	0.05 U	0.05 U	0.05 U							
	DB05-40	3/26/13	SES	F&BI	40	11.80	-	-	-	-	-	-	-	14	0.085	0.05 U	0.05 U	0.05 U							
	DB05-50	3/26/13	SES	F&BI	50	1.80	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB05-60	3/26/13	SES	F&BI	60	-8.20	-	-	-	-	-	-	-	0.34	0.03 U	0.05 U	0.05 U	0.05 U							
	DB05-70	3/26/13	SES	F&BI	70	-18.20	-	-	-	-	-	-	-	0.033	0.03 U	0.05 U	0.05 U	0.05 U							
DB06	DB06-10	3/25/13	SES	F&BI	10	41.80	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U							
	DB06-25	3/25/13	SES	F&BI	25	26.80	-	-	-	-	-	-	-	0.98	0.033	0.05 U	0.05 U	0.05 U							
	DB06-35	3/25/13	SES	F&BI	35	16.80	-	-	-	-	-	-	-	30	0.26	0.096	0.05 U	0.05 U							
	DB06-45	3/25/13	SES	F&BI	45	6.80	-	-	-	-	-	-	-	1.3	0.036	0.05 U	0.05 U	0.05 U							

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
DB06 (continued)	DB06-55	3/25/13	SES	F&BI	55	-3.20	-	-	-	-	-	-	-	0.027	0.03 U	0.05 U	0.05 U	0.05 U	
	DB06-65	3/25/13	SES	F&BI	65	-13.20	-	-	-	-	-	-	-	0.029	0.03 U	0.05 U	0.05 U	0.05 U	
	DB06-75	3/25/13	SES	F&BI	75	-23.20	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	
DB07	DB07-05	3/27/13	SES	F&BI	5	35.00	-	-	-	-	-	-	-	2.7	0.084	0.076	0.05 U	0.05 U	
	DB07-15	3/27/13	SES	F&BI	15	25.00	-	-	-	-	-	-	-	7.1	0.03 U	0.05 U	0.05 U	0.05 U	
	DB07-25	3/27/13	SES	F&BI	25	15.00	-	-	-	-	-	-	-	9.8	0.067	0.05 U	0.05 U	0.05 U	
	DB07-35	3/28/13	SES	F&BI	35	5.00	-	-	-	-	-	-	-	16	0.088	0.05 U	0.05 U	0.05 U	
	DB07-45	3/28/13	SES	F&BI	45	-5.00	-	-	-	-	-	-	-	13	0.72	0.05 U	0.05 U	0.05 U	
	DB07-50	3/28/13	SES	F&BI	50	-10.00	-	-	-	-	-	-	-	7.3	0.19	0.16	0.05 U	0.05 U	
	DB07-60	3/28/13	SES	F&BI	60	-20.00	-	-	-	-	-	-	-	1.5	0.92	0.53	0.05 U	0.05 U	
DB07-70	3/28/13	SES	F&BI	70	-30.00	-	-	-	-	-	-	-	5.0	0.96	0.41	0.05 U	0.05 U		
DB08	DB08-10	3/20/13	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.048	0.03 U	0.05 U	0.05 U	0.05 U	
	DB08-20	3/20/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	4.0	0.19	0.097	0.05 U	0.05 U	
	DB08-35	3/20/13	SES	F&BI	35	5.00	-	-	-	-	-	-	-	4.5	0.21	0.94	0.05 U	0.05 U	
	DB08-45	3/20/13	SES	F&BI	45	-5.00	-	-	-	-	-	-	-	0.056	0.03 U	0.05 U	0.05 U	0.05 U	
	DB08-50	3/21/13	SES	F&BI	50	-10.00	-	-	-	-	-	-	-	4.2	0.25	0.070	0.05 U	0.05 U	
	DB08-60	3/21/13	SES	F&BI	60	-20.00	-	-	-	-	-	-	-	0.51	0.20	0.080	0.05 U	0.05 U	
DB08-70	3/21/13	SES	F&BI	70	-30.00	-	-	-	-	-	-	-	0.41	0.040	0.05 U	0.05 U	0.05 U		
DB09	DB09-10	3/19/13	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.027	0.03 U	0.05 U	0.05 U	0.05 U	
	DB09-20	3/19/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	0.15	0.03 U	0.05 U	0.05 U	0.05 U	
	DB09-30	3/19/13	SES	F&BI	30	10.00	-	-	-	-	-	-	-	6.1	0.22	0.25	0.05 U	0.05 U	
	DB09-40	3/19/13	SES	F&BI	40	0.00	-	-	-	-	-	-	-	1.3	0.28	0.18	0.05 U	0.05 U	
	DB09-50	3/19/13	SES	F&BI	50	-10.00	-	-	-	-	-	-	-	0.14	0.03 U	0.05 U	0.05 U	0.05 U	
	DB09-60	3/19/13	SES	F&BI	60	-20.00	-	-	-	-	-	-	-	0.031	0.03 U	0.05 U	0.05 U	0.05 U	
DB09-70	3/19/13	SES	F&BI	70	-30.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
DB10	DB10-10	3/29/13	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.34	0.03 U	0.05 U	0.05 U	0.05 U	
	DB10-20	3/29/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	23	0.11	0.05 U	0.05 U	0.05 U	
	DB10-35	3/29/13	SES	F&BI	35	5.00	-	-	-	-	-	-	-	35	0.40	0.5 U	0.5 U	0.5 U	
	DB10-45	3/29/13	SES	F&BI	45	-5.00	-	-	-	-	-	-	-	57	0.3 U	0.5 U	0.5 U	0.5 U	
	DB10-50	4/1/13	SES	F&BI	50	-10.00	-	-	-	-	-	-	-	52	0.26	0.05 U	0.05 U	0.05 U	
	DB10-60	4/1/13	SES	F&BI	60	-20.00	-	-	-	-	-	-	-	2.0	0.03 U	0.05 U	0.05 U	0.05 U	
DB10-70	4/1/13	SES	F&BI	70	-30.00	-	-	-	-	-	-	-	1.8	0.035	0.05 U	0.05 U	0.05 U		
DB11	DB11-15	4/2/13	SES	F&BI	15	36.80	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	
	DB11-25	4/2/13	SES	F&BI	25	26.80	-	-	-	-	-	-	-	0.028	0.03 U	0.05 U	0.05 U	0.05 U	
	DB11-35	4/2/13	SES	F&BI	35	16.80	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	
	DB11-45	4/2/13	SES	F&BI	45	6.80	-	-	-	-	-	-	-	15	0.12	0.05 U	0.05 U	0.05 U	
	DB11-55	4/2/13	SES	F&BI	55	-3.20	-	-	-	-	-	-	-	0.16	0.03 U	0.05 U	0.05 U	0.05 U	
DB12	DB12-10	4/3/13	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.068	0.03 U	0.05 U	0.05 U	0.05 U	
	DB12-20	4/3/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	18	0.56	1.6	0.05 U	0.05 U	
	DB12-30	4/3/13	SES	F&BI	30	10.00	-	-	-	-	-	-	-	6.7	0.032	0.052	0.05 U	0.05 U	
	DB12-40	4/3/13	SES	F&BI	40	0.00	-	-	-	-	-	-	-	11	0.060	0.05 U	0.05 U	0.05 U	
DB13	DB13-10	4/3/13	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.12	0.03 U	0.05 U	0.05 U	0.05 U	
	DB13-20	4/3/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	0.78	0.03 U	0.05 U	0.05 U	0.05 U	
	DB13-35	4/3/13	SES	F&BI	35	5.00	-	-	-	-	-	-	-	2.7	0.24	0.063	0.05 U	0.05 U	
	DB13-45	4/3/13	SES	F&BI	45	-5.00	-	-	-	-	-	-	-	0.066	0.03 U	0.05 U	0.05 U	0.05 U	
DB14	DB14-10	4/4/13	SES	F&BI	10	31.50	260	-	-	0.059	0.41	1.2	3.6	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	
	DB14-20	4/4/13	SES	F&BI	20	21.50	73	-	-	0.02 U	0.078	0.29	1.0	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	
	DB14-30	4/4/13	SES	F&BI	30	11.50	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	
	DB14-40	4/4/13	SES	F&BI	40	1.50	-	-	-	-	-	-	-	0.050	0.03 U	0.077	0.05 U	0.05 U	

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																		
							Screening Levels							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	0.050						
G-MW1	MW 1-3-8	7/20/01	GeoEng	NCA	8	31.00	-	-	-	0.0190 U	0.0180 U	0.0190 U	0.0540 U	19.9	0.0230 U	0.0260 U	0.0130 U	0.0130 U							
	MW 1-8-20	7/20/01	GeoEng	NCA	20	19.00	-	-	-	0.0190 U	0.0180 U	0.0190 U	0.0540 U	237	0.0622	0.0260 U	0.0130 U	0.0130 U							
	MW 1-11-27.5	7/20/01	GeoEng	NCA	27.5	11.50	-	-	-	0.0190 U	0.0180 U	0.0190 U	0.0540 U	16.4	0.0706 J	0.0260 U	0.0130 U	0.0130 U							
	MW 1-13-32.5	7/20/01	GeoEng	NCA	32.5	6.50	-	-	-	0.0380 U	0.0360 U	0.0380 U	0.1080 U	33.1	0.394	0.0520 U	0.0260 U	0.0260 U							
	MW 1-15-37.5	7/20/01	GeoEng	NCA	37.5	1.50	-	-	-	0.0190 U	0.0180 U	0.0190 U	0.0540 U	0.678	0.0230 U	0.0260 U	0.0130 U	0.0130 U							
G-MW3 (G-SB4 11)	SB4-4-10	7/20/01	GeoEng	NCA	10	29.60	-	-	-	0.0190 U	0.0180 U	0.0190 U	0.0540 U	0.528	0.0230 U	0.0260 U	0.0130 U	0.0130 U							
	SB4-7-17.5	7/20/01	GeoEng	NCA	17.5	22.10	-	-	-	0.0190 U	0.0180 U	0.0190 U	0.0540 U	13.2	0.0230 U	0.0260 U	0.0130 U	0.0130 U							
	SB4-13-32.5	7/20/01	GeoEng	NCA	32.5	7.10	-	-	-	0.0190 U	0.0180 U	0.0190 U	0.0540 U	5.70	0.175	0.0260 U	0.0130 U	0.0130 U							
	SB4-15-37.5	7/20/01	GeoEng	NCA	37.5	2.10	-	-	-	0.0190 U	0.0180 U	0.0190 U	0.0540 U	0.581	0.0230 U	0.0260 U	0.0130 U	0.0130 U							
IW06	IW06-25	1/15/16	SES	F&BI	25	26.80	-	-	-	-	-	-	-	0.49 ve	0.010	0.005 U	0.005 U	0.005 U							
	IW06-30	1/15/16	SES	F&BI	30	21.80	-	-	-	-	-	-	-	0.19	0.0080	0.005 U	0.005 U	0.005 U							
	IW06-40	1/15/16	SES	F&BI	40	11.80	-	-	-	-	-	-	-	0.005 U	0.003 U	0.005 U	0.005 U	0.005 U							
	IW06-50	1/15/16	SES	F&BI	50	1.80	-	-	-	-	-	-	-	0.071	0.003 U	0.005 U	0.005 U	0.005 U							
	IW06-55	1/15/16	SES	F&BI	55	-3.20	-	-	-	-	-	-	-	0.018	0.003 U	0.005 U	0.005 U	0.005 U							
	IW06-60	1/15/16	SES	F&BI	60	-8.20	-	-	-	-	-	-	-	0.005 U	0.003 U	0.0061	0.005 U	0.005 U							
	IW06-65	1/15/16	SES	F&BI	65	-13.20	-	-	-	-	-	-	-	0.017	0.003 U	0.005 U	0.005 U	0.005 U							
	IW06-70	1/15/16	SES	F&BI	70	-18.20	-	-	-	-	-	-	-	0.005 UJ	0.003 U	0.005 U	0.005 U	0.005 U							
IW-1C	IW-1C-5	3/7/18	PES	ESC	5	34.12	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	0.0399	0.00620	0.00291	0.000293 U	0.000323 U							
	IW-1C-15	3/7/18	PES	ESC	15	24.12	-	-	-	0.000317 U	0.000510 U	0.000349 U	0.000820 U	0.00145	0.000516 J	0.00154	0.000310 U	0.000790 J							
	IW-1C-25	3/7/18	PES	ESC	25	14.12	-	-	-	0.0641 U	0.103 U	0.0705 U	0.166 U	11.1	0.845	0.769	0.0627 U	0.0691 U							
	IW-1C-35	3/7/18	PES	ESC	35	4.12	-	-	-	0.000290 U	0.000465 U	0.000319 U	0.000749 U	2.66	0.286	0.404	0.00339	0.0511							
	IW-1C-45	3/7/18	PES	ESC	45	-5.88	-	-	-	0.000302 U	0.000626 J	0.000332 U	0.000781 U	3.09	0.0782	0.153	0.00107 J	0.0238							
	IW-1C-55	3/7/18	PES	ESC	55	-15.88	-	-	-	0.000302 U	0.000486 U	0.000333 U	0.000782 U	1.30	0.00519	0.324	0.000342 J	0.176							
	IW-1C-65	3/7/18	PES	ESC	65	-25.88	-	-	-	0.000310 U	0.000499 U	0.000341 U	0.000802 U	0.00241	0.00116	0.000953 J	0.000303 U	0.000334 U							
	IW-1C-75	3/7/18	PES	ESC	75	-35.88	-	-	-	0.000325 U	0.000696 J	0.000357 U	0.000840 U	0.00735	0.00116 J	0.00329	0.000318 U	0.00172							
IW-2C	IW-2C-5	3/7/18	PES	ESC	5	31.33	-	-	-	0.000546 J	0.000536 U	0.000367 U	0.000862 U	0.000478 J	0.000790 J	0.00860	0.000363 J	0.000593 J							
	IW-2C-15	3/7/18	PES	ESC	15	21.33	-	-	-	0.000323 U	0.000519 U	0.000355 U	0.000834 U	0.000330 U	0.000333 U	0.000795 J	0.000315 U	0.00186							
	IW-2C-25	3/7/18	PES	ESC	25	11.33	-	-	-	0.000302 U	0.000485 U	0.000332 U	0.000780 U	6.20	0.388	0.304	0.00130	0.00850							
	IW-2C-35	3/7/18	PES	ESC	35	1.33	-	-	-	0.000340 U	0.000547 U	0.000374 U	0.000879 U	0.947	0.0403	0.0708	0.000522 J	0.00140							
	IW-2C-45	3/7/18	PES	ESC	45	-8.67	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	8.84	0.611	1.02	0.00232	0.0551							
	IW-2C-55	3/7/18	PES	ESC	55	-18.67	-	-	-	0.000314 U	0.000506 U	0.000346 U	0.000813 U	0.0381	0.00499	0.0123	0.000308 U	0.00598							
	IW-2C-65	3/7/18	PES	ESC	65	-28.67	-	-	-	0.000814 J	0.000725 J	0.000325 U	0.000763 U	0.00836	0.000755 J	0.00376	0.000289 U	0.00496							
	IW-2C-75	3/7/18	PES	ESC	75	-38.67	-	-	-	0.000324 U	0.000521 U	0.000357 U	0.000838 U	0.000331 U	0.000335 U	0.000282 U	0.000317 U	0.000350 U							
IW-3C	IW-3C-5	3/9/18	PES	ESC	5	34.13	-	-	-	0.000295 U	0.000475 U	0.000325 U	0.000763 U	0.0323	0.00162	0.000620 J	0.000289 U	0.000318 U							
	IW-3C-15	3/9/18	PES	ESC	15	24.13	-	-	-	0.00782 U	0.0125 U	0.00860 U	0.0202 U	1.36	0.0812	0.422	0.00765 U	0.00964 J							
	IW-3C-25	3/9/18	PES	ESC	25	14.13	-	-	-	0.159 U	0.256 U	0.175 U	0.412 U	19.0	0.774	0.968	0.156 U	0.172 U							
	IW-3C-35	3/9/18	PES	ESC	35	4.13	-	-	-	0.0600 U	0.0965 U	0.0660 U	0.156 U	9.68	0.456	0.918	0.0587 U	0.0932 J							
	IW-3C-45	3/9/18	PES	ESC	45	-5.87	-	-	-	0.000311 U	0.000500 U	0.000342 U	0.000805 U	1.85	0.0926	0.199	0.00138 U	0.0251							
	IW-3C-55	3/9/18	PES	ESC	55	-15.87	-	-	-	0.000306 U	0.000492 U	0.000337 U	0.000792 U	0.0387	0.00215	0.0107	0.000300 U	0.00140							
	IW-3C-65	3/9/18	PES	ESC	65	-25.87	-	-	-	0.000308 U	0.000495 U	0.000339 U	0.000796 U	0.0830	0.0128	0.141	0.000301 U	0.00726							
	IW-3C-75	3/9/18	PES	ESC	75	-35.87	-	-	-	0.000338 U	0.000543 U	0.000372 U	0.000874 U	0.0413	0.00631	0.131	0.000331 U	0.00484							
	IW-3C-79	3/9/18	PES	ESC	79	-39.87	-	-	-	0.000314 U	0.000504 U	0.000345 U	0.000811 U	0.00138	0.000324 U	0.00195	0.000307 U	0.000338 U							
IW-901-79	3/9/18	PES	ESC	79 (dup)	-39.87	-	-	-	0.000312 U	0.000502 U	0.000344 U	0.000807 U	0.000319 U	0.000323 U	0.000272 U	0.000305 U	0.000337 U								
IW-7A	IW-7A-5	3/16/18	PES	ESC	5	35.06	0.799	-	-	0.0122	0.00706	0.00221	0.00827	0.00171	0.000944 J	0.00829	0.000327 U	0.000638 J							
	IW-7A-10	3/16/18	PES	ESC	10	30.06	253	-	-	0.0433	0.0179	0.0304	0.0686	0.00163 U	0.00145 U	0.00509	0.00246 U	0.00134 U							
	IW-7A-15	3/16/18	PES	ESC	15	25.06	108	-	-	0.279	0.135 J	0.232	0.389	0.0250 J	0.0112 U	0.0163 J	0.0106 U	0.0117 U							
	IW-7A-20	3/16/18	PES	ESC	20	20.06	18.7	-	-	0.00723	0.0250	0.00585	0.0170	0.00167 U	0.00149 U	0.00155 J	0.00253 U	0.00137 U							
	IW-7A-25	3/16/18	PES	ESC	25	15.06	2.82	-	-	0.00189	0.000526 U	0.000360 U	0.000845 U	0.000334 U	0.000338 U	0.000857 J	0.000320 U	0.000352 U							
	IW-7A-30	3/16/18	PES	ESC	30	10.06	0.287	-	-	0.00201	0.000845 J	0.000369 J	0.000810 U	0.00109 J	0.000495 J	0.00175	0.000306 U	0.000829 J							
	IW-7A-35	3/16/18	PES	ESC	35	5.06	6.38	-	-	0.00282 J	0.00752	0.00222 J	0.00575 U	0.00201 J	0.00128 U	0.00193 J	0.00217 U	0.00118 U							



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
IW-7A (continued)	IW-7A-40	3/16/18	PES	ESC	40	0.06	0.296	-	-	0.000318 U	0.000511 U	0.000350 U	0.000822 U	0.00118	0.000393 J	0.000564 J	0.000311 U	0.000343 U	
	IW-7A-45	3/16/18	PES	ESC	45	-4.94	0.282	-	-	0.000600 J	0.000507 U	0.000347 U	0.000816 U	0.000910 J	0.000326 U	0.000444 J	0.000309 U	0.000340 U	
	IW-7A-50	3/16/18	PES	ESC	50	-9.94	0.483	-	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	0.0179	0.00761	0.117	0.000372 J	0.00223	
IW-8B	IW-8B-5	3/19/18	PES	ESC	5	34.24	-	-	-	0.000296 U	0.000475 U	0.000325 U	0.000764 U	0.0342	0.00314	0.00224	0.000289 U	0.000319 U	
	IW-8B-10	3/19/18	PES	ESC	10	29.24	-	-	-	0.000291 U	0.000468 U	0.000320 U	0.000752 U	0.0432	0.00481	0.00634	0.000285 U	0.000314 U	
	IW-8B-15	3/19/18	PES	ESC	15	24.24	-	-	-	0.0777 U	0.124 U	0.0854 U	0.200 U	29.6	0.243 J	0.198 U	0.0760	0.0838 U	
	IW-8B-20	3/19/18	PES	ESC	20	19.24	-	-	-	0.000296 U	0.000790 U	0.000326 U	0.000766 U	23.9	0.105	0.117	0.00141	0.00354	
	IW-8B-25	3/19/18	PES	ESC	25	14.24	-	-	-	0.000316 U	0.000508 U	0.000348 U	0.000817 U	4.80	0.109	0.319	0.00107 J	0.0350	
	IW-8B-30	3/19/18	PES	ESC	30	9.24	-	-	-	0.000303 U	0.000488 U	0.000334 U	0.000784 U	2.56	0.0560	0.107	0.000461 J	0.0153	
	IW-8B-40	3/19/18	PES	ESC	40	-0.76	-	-	-	0.000301 U	0.000484 U	0.000331 U	0.000779 U	0.0249	0.00131	0.00401	0.000294 U	0.00106 J	
	IW-8B-45	3/20/18	PES	ESC	45	-5.76	-	-	-	0.000301 U	0.000484 U	0.000331 U	0.000778 U	0.0424	0.00265	0.00866	0.000294 U	0.00141	
	IW-8B-50	3/20/18	PES	ESC	50	-10.76	-	-	-	0.000309 U	0.000496 U	0.000340 U	0.000798 U	0.0164	0.000972 J	0.00364	0.000302 U	0.000608 J	
	IW-8B-55	3/20/18	PES	ESC	55	-15.76	-	-	-	0.000291 U	0.000468 U	0.000320 U	0.000753 U	0.00501	0.000352 J	0.00183	0.000285 U	0.000393 J	
	IW-8B-60	3/20/18	PES	ESC	60	-20.76	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000799 U	0.00710	0.000382 J	0.00148	0.000302 U	0.000333 U	
IW-8B-64	3/20/18	PES	ESC	64	-24.76	-	-	-	0.000304 U	0.000489 U	0.000335 U	0.000787 U	0.00679	0.000406 J	0.00102 U	0.000298 U	0.000328 U		
IW-8C	IW-8C-5	3/14/18	PES	ESC	5	32.50	-	-	-	0.00198 J+	0.000746 U	0.000510 U	0.00120 U	5.81	0.129 J+	0.0338 J+	0.000693 J+	0.00182 J+	
	IW-8C-10	3/14/18	PES	ESC	10	27.50	-	-	-	0.00277 J+	0.00153 J	0.000514 U	0.00122 J	0.0394	0.00705	0.0112	0.00192	0.00710	
	IW-8C-15	3/14/18	PES	ESC	15	22.50	-	-	-	0.000318 U	0.000511 U	0.000350 U	0.000823 U	0.000583 J	0.000329 U	0.000359 J	0.000311 U	0.000342 U	
	IW-8C-20	3/14/18	PES	ESC	20	17.50	-	-	-	0.000291 U	0.000468 U	0.000320 U	0.000753 U	0.00474	0.000938 J	0.0108	0.000285 U	0.00100 J	
	IW-8C-25	3/14/18	PES	ESC	25	12.50	-	-	-	0.000321 U	0.000517 U	0.000354 U	0.000831 U	5.39	0.768	0.946	0.00231	0.0426	
	IW-8C-30	3/14/18	PES	ESC	30	7.50	-	-	-	0.000299 U	0.000480 U	0.000329 U	0.000772 U	0.798	0.0947	0.143	0.00177	0.0814	
	IW-8C-35	3/14/18	PES	ESC	35	2.50	-	-	-	0.000312 U	0.000502 U	0.000344 U	0.000807 U	0.833	0.0474	0.162	0.000842 J	0.0230	
	IW-8C-40	3/14/18	PES	ESC	40	-2.50	-	-	-	0.000311 U	0.000500 U	0.000342 U	0.000804 U	40.7	3.56	1.54	0.00250	0.0684	
	IW-8C-45	3/14/18	PES	ESC	45	-7.50	-	-	-	0.000346 J	0.000557 J	0.000335 U	0.000787 U	1.05	0.327	0.200	0.00889	0.164 J	
	IW-8C-50	3/14/18	PES	ESC	50	-12.50	-	-	-	0.000317 U	0.0210 J+	0.00441 J+	0.0244	105	3.06	3.68	0.0135 J+	0.101 J+	
	IW-8C-55	3/14/18	PES	ESC	55	-17.50	-	-	-	0.000312 U	0.00402 J+	0.000604 J+	0.00330 J+	11.9	0.340 J	2.31	0.00620 J+	0.0531 J+	
	IW-8C-60	3/14/18	PES	ESC	60	-22.50	-	-	-	0.000309 U	0.000637 J	0.000339 U	0.000798 U	10.8	0.275	0.464	0.00132	0.0104	
	IW-902-60	3/14/18	PES	ESC	60 (dup)	-22.50	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	0.955	0.0566	0.108	0.000329 J	0.00405	
	IW-8C-65	3/14/18	PES	ESC	65	-27.50	-	-	-	0.000324 U	0.000521 U	0.000356 U	0.000837 U	0.0191	0.000468 J	0.00158	0.000317 U	0.000360 J	
	IW-8C-70	3/14/18	PES	ESC	70	-32.50	-	-	-	0.000320 U	0.000515 U	0.000353 U	0.000829 U	1.96	0.0138	0.0327	0.000313 U	0.00139	
IW-8C-75	3/14/18	PES	ESC	75	-37.50	-	-	-	0.000302 U	0.000486 U	0.000332 U	0.000781 U	0.0850	0.00383	0.00864	0.000296 U	0.000586 J		
IW-11D	IW-11D-10	4/19/18	PES	ESC	10	28.37	-	-	-	0.00456	0.00223 J	0.000463 J	0.000964 U	0.00183	0.000385 U	0.000329 J	0.000364 U	0.000402 U	
	IW-11D-15	4/19/18	PES	ESC	15	23.37	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	0.000320 U	0.000323 U	0.000272 U	0.000306 U	0.000337 U	
	IW-11D-20	4/19/18	PES	ESC	20	18.37	-	-	-	0.000312 U	0.000502 U	0.000344 U	0.000807 U	0.000319 U	0.000323 U	0.000272 U	0.000305 U	0.000337 U	
	IW-11D-25	4/19/18	PES	ESC	25	13.37	-	-	-	0.000295 U	0.000474 U	0.000325 U	0.000763 U	0.00342	0.00368	0.0174	0.000288 U	0.00161	
	IW-11D-30	4/19/18	PES	ESC	30	8.37	-	-	-	0.000295 U	0.000475 U	0.000325 U	0.000763 U	0.0362	0.00990	0.00931	0.000289 U	0.00215	
	IW-11D-35	4/19/18	PES	ESC	35	3.37	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000800 U	0.0167	0.0176	0.101	0.00208	0.0389	
	IW-11D-40	4/19/18	PES	ESC	40	-1.63	-	-	-	0.000298 U	0.000480 U	0.000328 U	0.000771 U	0.00301	0.00143	1.25	0.00785	0.113	
	IW-11D-45	4/19/18	PES	ESC	45	-6.63	-	-	-	0.00760 U	0.0122 U	0.00835 U	0.0196 U	0.227	0.144	0.426	0.0576	0.506	
	IW-11D-50	4/19/18	PES	ESC	50	-11.63	-	-	-	0.000290 U	0.000466 U	0.000319 U	0.000749 U	0.115	0.387	0.693	0.00602	0.0505	
	IW-11D-55	4/19/18	PES	ESC	55	-16.63	-	-	-	0.000320 U	0.000514 U	0.000352 U	0.000827 U	0.0281	0.0427	2.04	0.00127	0.0113	
	IW-11D-60	4/19/18	PES	ESC	60	-21.63	-	-	-	0.000297 U	0.000477 U	0.000326 U	0.000767 U	0.00270	0.00337	0.00916	0.000290 U	0.000843 J	
	IW-11D-65	4/19/18	PES	ESC	65	-26.63	-	-	-	0.000297 U	0.000478 U	0.000327 U	0.000769 U	0.000793 J	0.000816 J	0.00280	0.000291 U	0.000321 U	
	IW-11D-70	4/19/18	PES	ESC	70	-31.63	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	2.23	1.80	2.07	0.00132	0.00344	
	IW-11D-75	4/19/18	PES	ESC	75	-36.63	-	-	-	0.000312 U	0.000501 U	0.000343 U	0.000806 U	0.0140	0.0277	0.106	0.000725 J	0.00270	
	IW-11D-80	4/19/18	PES	ESC	80	-41.63	-	-	-	0.000303 U	0.000488 U	0.000334 U	0.000784 U	0.000610 J	0.00104 J	0.00473	0.000297 U	0.000327 U	
IW-11D-85	4/19/18	PES	ESC	85	-46.63	-	-	-	0.000310 U	0.000499 U	0.000341 U	0.000802 U	0.000317 U	0.000401 J	0.000785 J	0.000303 U	0.000335 U		
IW-11D-90	4/19/18	PES	ESC	90	-51.63	-	-	-	0.000306 U	0.000492 U	0.000336 U	0.000791 U	0.00552	0.00374	0.00227	0.000299 U	0.00127		
IW-11D-95	4/19/18	PES	ESC	95	-56.63	-	-	-	0.000316 U	0.000509 U	0.000348 U	0.000818 U	0.000323 U	0.000327 U	0.000275 U	0.000309 U	0.000341 U		

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)													
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050		
IW-12D	IW-12D-42	9/14/18	PES	ESC	42	-3.5	-	-	-	0.000434 U	<b>0.00188 J</b>	0.000575 U	0.00519 U	<b>55.8</b>	<b>0.491</b>	<b>2.16</b>	0.00155 U	<b>0.132</b>		
	B-928-42	9/14/18	PES	ESC	42 (dup)	-3.5	-	-	-	0.000435 U	<b>0.00326 J</b>	0.000576 U	0.00519 U	<b>50.8</b>	<b>0.401</b>	<b>1.88</b>	0.00155 U	<b>0.105</b>		
	IW-12D-50	9/14/18	PES	ESC	50	-11.5	-	-	-	0.000437 U	<b>0.00427 J</b>	0.000580 U	0.00523 U	<b>54.4</b>	<b>1.51</b>	<b>1.04</b>	<b>0.0126</b>	<b>0.0585</b>		
	IW-12D-60	9/14/18	PES	ESC	60	-21.5	-	-	-	0.000451 U	<b>0.00436 J</b>	0.000597 U	0.00538 U	<b>9.63</b>	<b>0.347</b>	<b>0.566</b>	0.00161 U	<b>0.0123</b>		
	IW-12D-85	9/17/18	PES	ESC	85	-46.5	-	-	-	<b>0.000458 J</b>	<b>0.00194 J</b>	0.000592 U	0.00534 U	<b>8.01</b>	<b>0.0451</b>	<b>0.0596</b>	0.00160 U	0.000763 U		
	IW-12D-95	9/17/18	PES	ESC	95	-56.5	-	-	-	0.000481 U	0.0015 U	0.00637 U	0.00575 U	<b>0.942</b>	<b>0.00512</b>	<b>0.00818</b>	0.00172 U	<b>0.00139</b>		
IW-13D	IW-13D-80	9/18/18	PES	ESC	80	-40.8	-	-	-	0.000441 U	<b>0.00447 J</b>	<b>0.000719 J</b>	<b>0.00585 J</b>	<b>31.4</b>	<b>1.21</b>	<b>0.157</b>	<b>0.00404</b>	<b>0.0191</b>		
	IW-13D-85	9/18/18	PES	ESC	85	-45.8	-	-	-	0.000460 U	0.00178 U	0.000610 U	0.00550 U	<b>0.205</b>	<b>0.202</b>	<b>0.0220</b>	<b>0.00499</b>	0.000786 U		
	IW-13D-95	9/18/18	PES	ESC	95	-55.8	-	-	-	0.000481 U	<b>0.00171 J</b>	0.000638 U	0.00575 U	<b>0.00194</b>	<b>0.00168</b>	<b>0.00113</b>	0.00172 U	0.000822 U		
IW-14D	IW-14D-45	9/11/18	PES	ESC	45	-5.9	-	-	-	0.000419 U	0.00131 U	0.000555 U	0.00501 U	<b>0.712</b>	<b>0.0173</b>	<b>0.224</b>	<b>0.00591 J</b>	<b>0.0146</b>		
	IW-14D-55	9/11/18	PES	ESC	55	-15.9	-	-	-	0.000452 U	<b>0.00389 J</b>	<b>0.000834 J</b>	0.00540 U	<b>56.7</b>	<b>4.36</b>	<b>3.90</b>	0.0111 UJ	<b>0.0180</b>		
	IW-14D-65	9/11/18	PES	ESC	65	-25.9	-	-	-	0.000449 U	<b>0.00166 J</b>	0.000595 U	0.00536 U	<b>1.60</b>	<b>0.100</b>	<b>0.244</b>	<b>0.00171 J</b>	0.000767 U		
	IW-14D-75	9/11/18	PES	ESC	75	-35.9	-	-	-	<b>0.000525 J</b>	<b>0.00304 J</b>	0.000595 U	0.00536 U	<b>0.0728</b>	<b>0.00797</b>	<b>0.00943</b>	0.00160 UJ	0.000766 U		
	IW-14D-86	9/11/18	PES	ESC	86	-46.9	-	-	-	<b>0.000604 J</b>	<b>0.00291 J</b>	0.000584 U	0.00527 U	<b>2.31</b>	<b>0.502</b>	<b>0.0189</b>	<b>0.00742 J</b>	0.000752 U		
	IW-14D-95	9/11/18	PES	ESC	95	-55.9	-	-	-	<b>0.000701 J</b>	<b>0.00318 J</b>	<b>0.000606 J</b>	0.00541 U	<b>5.03</b>	<b>0.616</b>	<b>0.0212</b>	<b>0.00528 J</b>	0.000774 U		
IW-15D	IW-15D-54	9/11/18	PES	ESC	54	-2.2	-	-	-	<b>0.000455 J</b>	<b>0.00333 J</b>	<b>0.000628 J</b>	0.00511 U	<b>2.32</b>	<b>0.282</b>	<b>0.242</b>	0.00153 U	<b>0.00390</b>		
IW-16D	IW-16D-85	10/18/18	PES	Pace	85	-45.6	-	-	-	<b>0.00321 J</b>	<b>0.00897 J</b>	<b>0.00256 J</b>	0.0223 U	<b>1.35</b>	<b>0.336</b>	<b>0.336</b>	0.00666 U	0.00318 U		
	IW-16D-90	10/18/18	PES	Pace	90	-50.6	-	-	-	0.000474 U	0.00148 U	0.000628 U	0.00567 U	<b>0.0916</b>	<b>0.140</b>	<b>0.0191</b>	0.00170 U	0.000810 U		
	IW-16D-95	10/18/18	PES	Pace	95	-55.6	-	-	-	0.00194 U	0.00605 U	0.00257 U	0.0231 U	<b>1.47</b>	<b>0.564</b>	<b>0.0238</b>	0.00693 U	0.00331 U		
IW-19B	IW-19B-5	3/19/18	PES	ESC	5	32.43	-	-	-	<b>0.000797 J</b>	0.000491 U	0.000336 U	0.000789 U	<b>0.00478</b>	<b>0.000961 J</b>	0.000961 U	0.000298 U	0.000328 U		
	IW-19B-10	3/19/18	PES	ESC	10	27.43	-	-	-	<b>0.000465 J</b>	0.000980 U	0.000365 U	0.000859 U	0.000340 U	0.000343 U	0.000718 U	0.000325 U	0.000358 U		
	IW-19B-15	3/19/18	PES	ESC	15	22.43	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000800 U	<b>0.00104 J</b>	0.000320 U	0.000383 U	0.000302 U	0.000333 U		
	IW-19B-20	3/19/18	PES	ESC	20	17.43	-	-	-	0.000302 U	0.000485 U	0.000332 U	0.000779 U	<b>0.000942 J</b>	0.000312 U	0.000349 U	0.000295 U	0.000325 U		
	IW-19B-25	3/19/18	PES	ESC	25	12.43	-	-	-	0.000317 U	0.000509 U	0.000349 U	0.000819 U	<b>0.00166</b>	<b>0.000434 J</b>	0.000621 U	0.000310 U	0.000342 U		
	IW-19B-30	3/19/18	PES	ESC	30	7.43	-	-	-	0.000303 U	0.000487 U	0.000334 U	0.000784 U	0.000310 U	0.000313 U	0.000600 U	0.000297 U	0.000327 U		
	IW-19B-35	3/19/18	PES	ESC	35	2.43	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000774 U	<b>0.00134</b>	<b>0.000436 J</b>	0.000786 U	0.000293 U	0.000323 U		
	IW-19B-40	3/19/18	PES	ESC	40	-2.57	-	-	-	0.000312 U	0.000501 U	0.000343 U	0.000806 U	0.000319 U	0.000322 U	<b>0.0140</b>	0.000305 U	<b>0.00417</b>		
	IW-19B-45	3/19/18	PES	ESC	45	-7.57	-	-	-	0.000330 U	0.000530 U	0.000362 U	0.000852 U	0.000337 U	<b>0.000472 J</b>	0.00112 U	0.000322 U	<b>0.000514 J</b>		
	IW-19B-50	3/19/18	PES	ESC	50	-12.57	-	-	-	0.000344 U	0.000646 U	0.000379 U	0.000891 U	<b>0.00660</b>	<b>0.0168</b>	<b>0.0683</b>	<b>0.00178</b>	<b>0.0457</b>		
	IW-19B-55	3/19/18	PES	ESC	55	-17.57	-	-	-	0.000297 U	0.000478 U	0.000327 U	0.000768 U	<b>10.3</b>	<b>3.01</b>	<b>1.93</b>	<b>0.0123</b>	<b>0.109</b>		
	IW-19B-60	3/19/18	PES	ESC	60	-22.57	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	<b>14.5 J</b>	<b>3.70</b>	<b>3.16</b>	<b>0.0185</b>	<b>0.268</b>		
	IW-903-60	3/19/18	PES	ESC	60 (dup)	-22.57	-	-	-	0.000303 U	0.000487 U	0.000333 U	0.000784 U	<b>20.3 J</b>	<b>4.58</b>	<b>3.68</b>	<b>0.0182</b>	<b>0.280</b>		
	IW-19B-63	3/19/18	PES	ESC	63	-25.57	-	-	-	0.000302 U	0.000486 U	0.000333 U	0.000781 U	<b>0.0326</b>	<b>0.0180</b>	<b>0.0326</b>	0.000296	<b>0.0108</b>		
IW-21B	IW-21B-5	3/6/18	PES	ESC	5	36.91	-	-	-	0.000488 U	0.000784 U	0.000536 U	0.00126 U	<b>0.0140</b>	<b>0.00659</b>	<b>0.00711</b>	0.000477 U	0.000526 U		
	IW-21B-10	3/6/18	PES	ESC	10	31.91	-	-	-	0.000329 U	0.000529 U	0.000362 U	0.000851 U	<b>0.0130</b>	<b>0.00524</b>	<b>0.00482</b>	0.000322 U	0.000355 U		
	IW-21B-20	3/6/18	PES	ESC	20	21.91	-	-	-	<b>0.000864 J</b>	<b>0.00128 J</b>	0.000357 U	0.000839 U	<b>0.000338 J</b>	0.000335 U	0.000283 U	0.000317 U	0.000350 U		
	IW-21B-30	3/6/18	PES	ESC	30	11.91	-	-	-	0.000301 U	0.000485 U	0.000332 U	0.000779 U	0.000308 U	0.000312 U	<b>0.000406 J</b>	0.000295 U	0.000325 U		
	IW-21B-40	3/6/18	PES	ESC	40	1.91	-	-	-	0.000298 U	0.000480 U	0.000328 U	0.000772 U	<b>0.00709</b>	<b>0.00187</b>	<b>0.0424</b>	<b>0.00134</b>	<b>0.0212</b>		
	IW-21B-50	3/6/18	PES	ESC	50	-8.09	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000755 U	<b>0.00382</b>	<b>0.00783</b>	<b>0.0340</b>	<b>0.000587 J</b>	<b>0.0338</b>		
	IW-21B-60	3/6/18	PES	ESC	60	-18.09	-	-	-	0.00765 U	0.0122 U	0.00841 U	0.0197 U	<b>10.5</b>	<b>3.82</b>	<b>3.82</b>	<b>0.0341</b>	<b>0.0525</b>		
	IW-21B-67	3/6/18	PES	ESC	67	-25.09	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000773 U	<b>0.00196</b>	<b>0.00311</b>	<b>0.0353 J</b>	<b>0.000295 J</b>	<b>0.00878</b>		
IW-22C	IW-22C-62	8/31/18	PES	ESC	62	-23.1	-	-	-	0.000462 U	<b>0.00954</b>	<b>0.00123 J</b>	0.219 U	<b>14.5</b>	<b>0.708</b>	<b>0.305</b>	0.00165 U	0.000789 U		
	IW-22C-78	8/31/18	PES	ESC	78	-39.1	-	-	-	0.000484 U	<b>0.00182 J</b>	0.000642 U	0.231 U	<b>16.6</b>	<b>0.915</b>	<b>0.975</b>	0.00173 U	<b>0.00698</b>		
IW-23C	IW-23C-42	9/4/18	PES	ESC	42	-3.0	-	-	-	0.000479 U	<b>0.00716</b>	<b>0.00266 J</b>	2.29 U	<b>308</b>	<b>0.929</b>	<b>8.86</b>	<b>0.0116 J</b>	<b>0.532</b>		
IW-24C	IW-24C-48	9/7/18	PES	ESC	48	-8.8	-	-	-	<b>0.000635 J</b>	<b>0.00380 J</b>	0.000599 U	0.0540 U	<b>0.313</b>	<b>0.0257</b>	<b>3.74</b>	<b>0.0101 J</b>	<b>0.176 J-</b>		
	IW-24C-55	9/7/18	PES	ESC	55	-15.8	-	-	-	<b>0.000769 J</b>	<b>0.00382 J</b>	<b>0.00186 J</b>	<b>0.00785</b>	<b>140</b>	<b>0.882</b>	<b>0.980</b>	<b>0.0424</b>	0.000813 U		
	IW-24C-66	9/10/18	PES	ESC	66	-26.8	-	-	-	0.000495 U	0.618 U	0.262 U	<b>0.0121</b>	<b>210</b>	<b>1.54</b>	<b>2.18</b>	<b>0.0248</b>	0.000845 U		
	IW-24C-75	9/10/18	PES	ESC	75	-35.8	-	-	-	0.000478 U	0.598 U	0.253 U	<b>0.0127</b>	<b>309</b>	<b>2.12</b>	<b>2.62</b>	<b>0.0228</b>	0.000817 U		
	IW-24C-80	9/10/18	PES	ESC	80	-40.8	-	-	-	0.000442 U	<b>0.00148 J</b>	0.000586 U	0.00529 U	<b>12.3</b>	<b>0.128</b>	<b>0.699</b>	<b>0.00418 J</b>	<b>0.0312</b>		

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
IW-27B	IW-27B-5	3/2/18	PES	ESC	5	36.97	-	-	-	0.000432 U	0.000695 U	0.000476 U	0.00112 U	<b>0.0678</b>	<b>0.0248</b>	<b>0.0106</b>	0.000424 U	0.000467 U	
	IW-27B-15	3/2/18	PES	ESC	15	26.97	-	-	-	<b>0.00393</b>	<b>0.00124 J</b>	0.000423 U	0.000994 U	<b>0.0178</b>	<b>0.00435</b>	<b>0.00218</b>	0.000376 U	<b>0.000493 J</b>	
	IW-27B-25	3/2/18	PES	ESC	25	16.97	-	-	-	0.000314 U	0.000505 U	0.000345 U	0.000812 U	0.000321 U	0.000324 U	0.000273 U	0.000307 U	0.000338 U	
	IW-27B-35	3/2/18	PES	ESC	35	6.97	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000799 U	<b>0.00114 J</b>	<b>0.000325 J</b>	<b>0.108</b>	<b>0.120</b>	<b>0.0195</b>	
IW-27C	IW-27C-45	9/10/18	PES	ESC	45	6.8	-	-	-	0.000448 U	<b>0.00223 J</b>	0.000593 U	0.00535 U	<b>18.6</b>	<b>0.178</b>	<b>0.282</b>	<b>0.00239 J</b>	<b>0.0297</b>	
IW-28C	IW-28C-92	9/17/18	PES	ESC	92	-40.6	-	-	-	0.000435 U	<b>0.00168</b>	0.000576 U	0.00520 U	<b>0.983</b>	<b>0.00290</b>	<b>0.0103</b>	0.00155 U	0.000742 U	
IW-39B	IW-39B-5	3/12/18	PES	ESC	5	35.21	-	-	-	0.000343 U	0.000551 U	0.000377 U	0.000886 U	<b>0.0961</b>	<b>0.00856</b>	<b>0.0227</b>	<b>0.000423 J</b>	0.000370 U	
	IW-39B-15	3/12/18	PES	ESC	15	25.21	-	-	-	0.000301 U	0.000484 U	0.000331 U	0.000778 U	0.000308 U	0.000311 U	<b>0.00624</b>	0.000294 U	0.000324 U	
	IW-39B-25	3/12/18	PES	ESC	25	15.21	-	-	-	0.000321 U	0.000516 U	0.000353 U	0.000830 U	<b>0.0371</b>	<b>0.00557</b>	<b>0.0239</b>	<b>0.000814 J</b>	<b>0.000945 J</b>	
	IW-39B-35	3/12/18	PES	ESC	35	5.21	-	-	-	0.000296 U	0.000477 U	0.000326 U	0.000766 U	<b>0.00404</b>	<b>0.00185</b>	<b>0.0135</b>	<b>0.000397 J</b>	<b>0.00311</b>	
	IW-39B-45	3/12/18	PES	ESC	45	-4.79	-	-	-	0.000303 U	0.000487 U	0.000333 U	0.000783 U	<b>0.00336</b>	<b>0.00126</b>	<b>0.0185</b>	0.000296 U	<b>0.00592</b>	
	IW-39B-55	3/12/18	PES	ESC	55	-14.79	-	-	-	0.000709 U	0.0113 U	0.007790 U	0.0183 U	<b>0.0868</b>	<b>0.0219 J</b>	<b>1.57</b>	<b>0.0809</b>	<b>0.0245 J</b>	
IW-46B	IW-46B-5	3/20/18	PES	ESC	5	46.83	-	-	-	0.000303 UJ	0.000488 UJ	0.000334 UJ	0.000785 UJ	<b>0.00450 J</b>	0.000314 UJ	<b>0.000434 J</b>	0.000297 UJ	0.000327 UJ	
	IW-46B-10	3/20/18	PES	ESC	10	41.83	-	-	-	<b>0.000327 J</b>	0.000477 UJ	0.000326 UJ	0.000767 UJ	<b>0.0223 J</b>	0.000307 UJ	<b>0.000349 J</b>	0.000290 UJ	0.000320 UJ	
	IW-46B-15	3/20/18	PES	ESC	15	36.83	-	-	-	0.00747 UJ	0.0119 UJ	0.00821 UJ	0.0192 UJ	<b>0.386 J</b>	<b>0.0108 J</b>	0.00650 UJ	0.00730 UJ	0.00805 UJ	
	IW-46B-20	3/20/18	PES	ESC	20	31.83	-	-	-	0.000302 UJ	0.000485 UJ	0.000332 UJ	0.000780 UJ	<b>0.0626 J</b>	<b>0.00127 J</b>	<b>0.000960 J</b>	0.000295 UJ	0.000325 UJ	
	IW-46B-25	3/20/18	PES	ESC	25	26.83	-	-	-	0.000298 UJ	0.000480 UJ	0.000328 UJ	0.000772 UJ	<b>20.1 J</b>	<b>0.0476 J</b>	<b>0.00239 J</b>	0.000292 UJ	<b>0.000784 J</b>	
	IW-46B-30	3/20/18	PES	ESC	30	21.83	-	-	-	0.000302 UJ	0.000485 UJ	0.000332 UJ	0.000781 UJ	<b>5.63 J</b>	<b>0.0134 J</b>	<b>0.00513 J</b>	0.000295 UJ	0.000325 UJ	
	IW-46B-35	3/20/18	PES	ESC	35	16.83	-	-	-	0.000327 UJ	0.000525 UJ	0.000359 UJ	0.000844 UJ	<b>0.00462 J</b>	0.000338 UJ	<b>0.000737 J</b>	0.000319 UJ	<b>0.000712 J</b>	
	IW-904-35	3/20/18	PES	ESC	35 (dup)	16.83	-	-	-	0.000345 UJ	0.000555 UJ	0.000380 UJ	0.000893 UJ	<b>0.0143 J</b>	<b>0.00219 J</b>	<b>0.00147 J</b>	0.000338 UJ	<b>0.000756 J</b>	
	IW-46B-40	3/20/18	PES	ESC	40	11.83	-	-	-	0.000284 UJ	0.000456 UJ	0.000312 UJ	0.000734 UJ	<b>2.36 J</b>	<b>0.0147 J</b>	<b>0.00149 J</b>	0.000278 UJ	0.000306 UJ	
	IW-46B-42	3/20/18	PES	ESC	42	9.83	-	-	-	<b>0.000384 J</b>	<b>0.00189 J</b>	0.000357 UJ	<b>0.00187 J</b>	<b>145 J</b>	<b>1.31 J</b>	<b>4.91 J</b>	<b>0.00269 J</b>	<b>0.356 J</b>	
	IW-46B-45	3/20/18	PES	ESC	45	6.83	-	-	-	1.54 UJ	2.47 UJ	1.68 UJ	3.97 UJ	<b>261 J</b>	<b>1.59 J</b>	<b>2.47 J</b>	1.50 UJ	1.66 UJ	
	IW-46B-50	3/20/18	PES	ESC	50	1.83	-	-	-	<b>0.000504 J</b>	<b>0.000577 J</b>	0.000297 UJ	0.000698 UJ	<b>2.31 J</b>	<b>0.0168 J</b>	<b>2.05 J</b>	<b>0.00309 J</b>	<b>1.65 J</b>	
	IW-46B-55	3/20/18	PES	ESC	55	-3.17	-	-	-	<b>0.000305 J</b>	0.000484 UJ	0.000331 UJ	0.000778 UJ	<b>14.3 J</b>	<b>0.0266 J</b>	<b>1.06 J</b>	<b>0.000783 J</b>	<b>0.0923 J</b>	
	IW-46B-60	3/20/18	PES	ESC	60	-8.17	-	-	-	0.000305 UJ	0.000490 UJ	0.000335 UJ	0.000788 UJ	<b>8.71 J</b>	<b>0.0393 J</b>	<b>4.95 J</b>	<b>0.00223 J</b>	<b>0.908 J</b>	
IW-46B-65	3/20/18	PES	ESC	65	-13.17	-	-	-	0.000300 UJ	0.000483 UJ	0.000330 UJ	0.000776 UJ	<b>1.78 J</b>	<b>0.00183 J</b>	<b>4.82 J</b>	<b>0.000435 J</b>	<b>0.0639 J</b>		
IW-46B-70	3/20/18	PES	ESC	70	-18.17	-	-	-	0.000344 UJ	0.000554 UJ	0.000379 UJ	0.000890 UJ	<b>2.79 J</b>	<b>0.0366 J</b>	<b>4.07 J</b>	<b>0.00185 J</b>	<b>0.0252 J</b>		
IW-47B	IW-47B-5	3/22/18	PES	ESC	5	46.80	-	-	-	<b>0.000323 J</b>	0.000512 UJ	0.000350 UJ	0.000823 UJ	<b>0.0518</b>	<b>0.00121 J</b>	<b>0.000394 J</b>	0.000311 UJ	0.000343 UJ	
	IW-47B-10	3/22/18	PES	ESC	10	41.80	-	-	-	0.000318 UJ	0.000511 UJ	0.000349 UJ	0.000821 UJ	<b>0.0214 J</b>	<b>0.000935 J</b>	<b>0.000623 J</b>	0.000311 UJ	0.000342 UJ	
	IW-47B-15	3/22/18	PES	ESC	15	36.80	-	-	-	0.000301 UJ	0.000485 UJ	0.000332 UJ	0.000779 UJ	<b>0.00348 J</b>	0.000312 UJ	<b>0.0413 J</b>	0.000295 UJ	0.000325 UJ	
	IW-47B-20	3/22/18	PES	ESC	20	31.80	-	-	-	0.000300 UJ	0.000482 UJ	0.000330 UJ	0.000775 UJ	<b>0.0344 J</b>	<b>0.00453 J</b>	<b>0.00146 J</b>	0.000293 UJ	0.000323 UJ	
	IW-47B-25	3/22/18	PES	ESC	25	26.80	-	-	-	0.000305 UJ	0.000491 UJ	0.000336 UJ	0.000790 UJ	<b>0.0435 J</b>	<b>0.00663 J</b>	<b>0.00859 J</b>	0.000299 UJ	0.000329 UJ	
	IW-47B-30	3/22/18	PES	ESC	30	21.80	-	-	-	0.000303 UJ	0.000487 UJ	0.000333 UJ	0.000783 UJ	<b>0.00334 J</b>	<b>0.00136 J</b>	<b>0.146 J</b>	<b>0.000962 J</b>	0.000326 UJ	
	IW-47B-35	3/22/18	PES	ESC	35	16.80	-	-	-	0.000297 UJ	0.000477 UJ	0.000327 UJ	0.000768 UJ	<b>0.00552 J</b>	<b>0.00173 J</b>	<b>0.00566 J</b>	0.000290 UJ	0.000320 UJ	
	IW-47B-40	3/22/18	PES	ESC	40	11.80	-	-	-	0.000306 UJ	0.000493 UJ	0.000337 UJ	0.000792 UJ	<b>0.0155 J</b>	<b>0.00284 J</b>	<b>0.0378 J</b>	0.000300 UJ	<b>0.00246 J</b>	
	IW-47B-42	3/22/18	PES	ESC	42	9.80	-	-	-	0.000354 UJ	<b>0.000822 J</b>	0.000390 UJ	0.000916 UJ	<b>0.196 J</b>	<b>0.0157 J</b>	<b>0.0477 J</b>	0.000346 UJ	<b>0.00137 J</b>	
	IW-47B-45	3/22/18	PES	ESC	45	6.80	-	-	-	0.000305 UJ	0.000491 UJ	0.000336 UJ	0.000789 UJ	<b>0.0192 J</b>	<b>0.00253 J</b>	<b>1.42 J</b>	<b>0.000473 J</b>	<b>0.00224 J</b>	
	IW-47B-50	3/22/18	PES	ESC	50	1.80	-	-	-	0.000317 UJ	0.000510 UJ	0.000349 UJ	0.000820 UJ	<b>0.0102 J</b>	<b>0.00206 J</b>	<b>0.0368 J</b>	<b>0.00397 J</b>	<b>0.00131 J</b>	
	IW-47B-55	3/22/18	PES	ESC	55	-3.20	-	-	-	0.000292 UJ	0.000469 UJ	0.000321 UJ	0.000754 UJ	<b>0.0158 J</b>	<b>0.00209 J</b>	<b>3.47 J</b>	<b>0.00213 J</b>	<b>0.105 J</b>	
	IW-47B-60	3/22/18	PES	ESC	60	-8.20	-	-	-	0.000309 UJ	0.000496 UJ	0.000340 UJ	0.000798 UJ	<b>0.0204 J</b>	<b>0.00194 J</b>	<b>0.348 J</b>	<b>0.000867 J</b>	<b>0.0200 J</b>	
	IW-47B-65	3/22/18	PES	ESC	65	-13.20	-	-	-	0.000305 UJ	0.000490 UJ	0.000335 UJ	0.000788 UJ	<b>0.0244 J</b>	<b>0.00115 J</b>	<b>0.119 J</b>	<b>0.000369 J</b>	<b>0.00491 J</b>	
IW-47B-70	3/22/18	PES	ESC	70	-18.20	-	-	-	0.000301 UJ	0.000485 UJ	0.000332 UJ	0.000779 UJ	<b>0.0312 J</b>	<b>0.00264 J</b>	<b>2.21 J</b>	<b>0.00244 J</b>	<b>0.0168 J</b>		
IW-47B-75	3/22/18	PES	ESC	75	-23.20	-	-	-	0.000300 UJ	0.000483 UJ	0.000331 UJ	0.000777 UJ	<b>0.000331 J</b>	0.000310 UJ	<b>0.00197 J</b>	0.000294 UJ	0.000324 UJ		
IW-48B	IW-48B-5	3/23/18	PES	ESC	5	46.68	-	-	-	0.000312 U	0.000502 U	0.000343 U	0.000807 U	<b>0.0108</b>	0.000322 U	0.000272 U	0.000305 U	0.000336 U	
	IW-48B-10	3/23/18	PES	ESC	10	41.68	-	-	-	0.000306 U	0.000491 U	0.000336 U	0.000790 U	<b>0.00589</b>	0.000316 U	<b>0.00100 J</b>	0.000299 U	0.000329 U	
	IW-48B-15	3/23/18	PES	ESC	15	36.68	-	-	-	<b>0.00101 J</b>	0.000507 U	0.000347 U	0.000815 U	<b>0.0117</b>	0.000326 U	<b>0.000585 J</b>	0.000308 U	0.000340 U	
	IW-48B-20	3/23/18	PES	ESC	20	31.68	-	-	-	0.000297 U	0.000478 U	0.000327 U	0.000768 U	<b>0.0775</b>	<b>0.00543</b>	<b>0.00149</b>	0.000290 U	0.000320 U	
	IW-48B-25	3/23/18	PES	ESC	25	26.68	-	-	-	0.000304 U	0.000489 U	0.000334 U	0.000786 U	<b>0.924</b>	<b>0.0104</b>	<b>0.00777</b>	0.000297 U	0.000328 U	
	IW-48B-30	3/23/18	PES	ESC	30	21.68	-	-	-	0.000298 U	0.000478 U	0.000327 U	0.000769 U	0.127 UJ	<b>0.00751</b>	<b>0.00569</b>	0.000291 U	0.000321 U	
IW-48B-35	3/23/18	PES	ESC	35	16.68	-	-	-	0.000311 U	0.000499 U	0.000342 U	0.000803 U	0.00825 UJ	<b>0.00215</b>	<b>0.0901</b>	<b>0.000991 J</b>	0.000335 U		

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
IW-48B (continued)	IW-48B-40	3/23/18	PES	ESC	40	11.68	-	-	-	0.000295 U	0.000474 U	0.000324 U	0.000762 U	0.0129 J	0.00267	0.000350 J	0.00178	0.000318 U	
	IW-48B-42	3/23/18	PES	ESC	42	9.68	-	-	-	0.000298 U	0.000478 U	0.000327 U	0.000769 U	0.00329 UJ	0.00150	0.0110	0.000291 U	0.000321 U	
	IW-905-42	3/23/18	PES	ESC	42 (dup)	9.68	-	-	-	0.000295 U	0.000474 U	0.000324 U	0.000763 U	0.00302	0.00122	0.00820	0.000288 U	0.000318 U	
	IW-48B-45	3/23/18	PES	ESC	45	6.68	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	0.000668 J	0.000303 U	0.00156	0.000286 U	0.000316 U	
	IW-48B-50	3/23/18	PES	ESC	50	1.68	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	0.00167 J	0.00101 J	0.00420	0.00118	0.000321 U	
	IW-48B-55	3/23/18	PES	ESC	55	-3.32	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	0.0683 J	0.0476	0.148	0.0204	0.000480 J	
	IW-48B-60	3/23/18	PES	ESC	60	-8.32	-	-	-	0.000299 U	0.000480 U	0.000329 U	0.000772 U	8.37	0.191 J	3.47	0.0176 J	0.00534	
	IW-48B-65	3/23/18	PES	ESC	65	-13.32	-	-	-	0.000319 U	0.000513 U	0.000351 U	0.000825 U	0.154	0.00448	0.121	0.00172	0.00410	
	IW-48B-70	3/23/18	PES	ESC	70	-18.32	-	-	-	0.000297 U	0.000477 U	0.000326 U	0.000767 U	0.0158	0.000853 J	0.00825	0.000290 U	0.00248	
IW-48B-75	3/23/18	PES	ESC	75	-23.32	-	-	-	0.000304 U	0.000488 U	0.000334 U	0.000785 U	24.4	0.932	0.0303	0.000968 J	0.00760		
IW-50A	IW-50A-5	3/27/18	PES	ESC	5	46.85	-	-	-	0.000343 J	0.000495 U	0.000339 U	0.000797 U	0.0105	0.000318 U	0.000268 U	0.000301 U	0.000332 U	
	IW-50A-10	3/27/18	PES	ESC	10	41.85	-	-	-	0.000301 U	0.000484 U	0.000331 U	0.000778 U	0.00526	0.00365	0.00210	0.000294 U	0.000324 U	
	IW-50A-15	3/27/18	PES	ESC	15	36.85	-	-	-	0.000297 U	0.000477 U	0.000326 U	0.000767 U	0.00323	0.00225	0.00185	0.000290 U	0.000320 U	
	IW-50A-20	3/27/18	PES	ESC	20	31.85	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000776 U	0.00173	0.000310 U	0.0300	0.000293 U	0.000323 U	
	IW-50A-25	3/27/18	PES	ESC	25	26.85	-	-	-	0.000292 U	0.000470 U	0.000321 U	0.000755 U	0.0149	0.00376	0.0836	0.000640 J	0.000315 U	
	IW-50A-30	3/27/18	PES	ESC	30	21.85	-	-	-	0.000293 U	0.000471 U	0.000323 U	0.000758 U	0.00643	0.00146	0.0103	0.000287 U	0.000316 U	
	IW-50A-35	3/27/18	PES	ESC	35	16.85	-	-	-	0.000294 U	0.000473 U	0.000323 U	0.000760 U	0.00599	0.00158	0.0158	0.000287 U	0.000317 U	
	IW-50A-40	3/27/18	PES	ESC	40	11.85	-	-	-	0.000298 U	0.000480 U	0.000328 U	0.000771 U	0.00647	0.00188	0.0273	0.000292 U	0.000322 U	
	IW-50A-42	3/27/18	PES	ESC	42	9.85	-	-	-	0.000297 U	0.000477 U	0.000326 U	0.000767 U	0.0263	0.00273	0.0970	0.000290 U	0.00893	
	IW-50A-45	3/27/18	PES	ESC	45	6.85	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000773 U	2.10	0.0367	0.350	0.000292 U	0.00501	
	IW-50A-50	3/27/18	PES	ESC	50	1.85	-	-	-	0.000303 U	0.000487 U	0.000333 U	0.000783 U	2.67 J	0.0210 J	0.621 J	0.000296 U	0.0112	
	IW-906-50	3/27/18	PES	ESC	50 (dup)	1.85	-	-	-	0.000305 U	0.000490 U	0.000335 U	0.000788 U	0.0849 J	0.00989 J	0.121 J	0.000298 U	0.0119	
	IW-50A-55	3/27/18	PES	ESC	55	-3.15	-	-	-	0.000304 U	0.000488 U	0.000334 U	0.000786 U	0.0127	0.00151	0.0706	0.000297 U	0.00993	
IW-50A-60	3/27/18	PES	ESC	60	-8.15	-	-	-	0.000305 U	0.000490 U	0.000335 U	0.000788 U	0.00210	0.000315 U	0.00646	0.000298 U	0.00363		
IW-51A	IW-51A-5	3/26/18	PES	ESC	5	46.91	-	-	-	0.000297 U	0.000477 U	0.000327 U	0.000768 U	0.00410	0.000307 U	0.000359 J	0.000290 U	0.000320 U	
	IW-51A-10	3/26/18	PES	ESC	10	41.91	-	-	-	0.000294 U	0.000473 U	0.000324 U	0.000761 U	0.00112	0.000304 U	0.000256 U	0.000288 U	0.000317 U	
	IW-51A-15	3/26/18	PES	ESC	15	36.91	-	-	-	0.000306 U	0.000492 U	0.000337 U	0.000792 U	0.00450	0.000316 U	0.000778 J	0.000299 U	0.000330 U	
	IW-51A-20	3/26/18	PES	ESC	20	31.91	-	-	-	0.000293 U	0.000470 U	0.000322 U	0.000756 U	0.00211	0.000302 U	0.000759 J	0.000286 U	0.000315 U	
	IW-51A-25	3/26/18	PES	ESC	25	26.91	-	-	-	0.000373 U	0.000599 U	0.000410 U	0.000963 U	5.20	0.0410	0.0670	0.000506 J	0.000401 U	
	IW-51A-30	3/26/18	PES	ESC	30	21.91	-	-	-	0.000291 U	0.000468 U	0.000320 U	0.000752 U	3.14	0.0147	0.00590	0.000284 U	0.000314 U	
	IW-51A-35	3/26/18	PES	ESC	35	16.91	-	-	-	0.000294 U	0.000473 U	0.000323 U	0.000760 U	0.00981	0.000304 U	0.00305	0.000287 U	0.000805 J	
	IW-51A-40	3/26/18	PES	ESC	40	11.91	-	-	-	0.000295 U	0.000474 U	0.000324 U	0.000763 U	0.101	0.00781	2.17	0.000872 J	0.0155	
	IW-51A-42	3/26/18	PES	ESC	42	9.91	-	-	-	0.000301 U	0.000483 U	0.000331 U	0.000777 U	2.97	0.0397	2.37	0.00244	0.0869 J	
	IW-51A-45	3/26/18	PES	ESC	45	6.91	-	-	-	0.000301 U	0.000483 U	0.000331 U	0.000777 U	0.125	0.000311 U	0.0456	0.000294 U	0.0448	
	IW-51A-50	3/26/18	PES	ESC	50	1.91	-	-	-	0.000378 J	0.000497 U	0.000340 U	0.000800 U	1.36	0.0165	2.06	0.000572 J	0.00557	
	IW-51A-55	3/26/18	PES	ESC	55	-3.09	-	-	-	0.000310 U	0.000498 U	0.000340 U	0.000800 U	0.103	0.00933	0.729	0.000303 U	0.00612	
	IW-51A-60	3/26/18	PES	ESC	60	-8.09	-	-	-	0.000290 U	0.000467 U	0.000319 U	0.000751 U	0.000796 J	0.000300 U	0.00129	0.000284 U	0.000706 J	
IW-51A-62	3/26/18	PES	ESC	62	-10.09	-	-	-	0.000294 U	0.000472 U	0.000323 U	0.000759 U	0.000824 J	0.000303 U	0.00180	0.000287 U	0.00354		
IW-53B	IW-53B-30	9/20/18	PES	ESC	30	5.31	-	-	-	0.000505 J	0.00303 J	0.00061	0.00520 U	1.74	0.152	0.171	0.00381	0.0079	
IW-54A	IW-54A-8	9/12/18	PES	ESC	8	31.11	-	-	-	0.000462 U	0.00424 J	0.000612 U	0.00552 U	48.1	0.0503	0.00700	0.00165 U	0.000778 U	
	IW-54A-49	9/12/18	PES	ESC	49	-9.89	-	-	-	0.000463 U	0.00537 J	0.000614 U	0.00554 U	0.0827	0.000463 U	0.000799 U	0.00166 U	0.000791 U	
IW-54B	IW-54B-8	9/5/18	PES	ESC	8	31.19	-	-	-	0.000436 U	0.00476 J	0.00226 J	10.4 U	937	0.922 J	1.51 U	0.00156 UJ	0.00293	
	IW-54B-13	9/6/18	PES	ESC	13	26.19	-	-	-	0.000444 U	0.00139 U	0.000588 U	0.0530 U	2.21	0.0456	0.0349	0.00159 UJ	0.000758 U	
	IW-54B-21	9/6/18	PES	ESC	21	18.19	-	-	-	0.000436 U	0.00277 J	0.000578 U	0.104 U	11.0	4.48	1.90	0.00612 J	0.000745 U	
	IW-54B-33	9/6/18	PES	ESC	33	6.19	-	-	-	0.000702 J	0.00246 J	0.000663 U	0.00592 U	0.0689	0.0349	1.02	0.00179 UJ	0.0927	
IW-55B	IW-55B-39	9/13/18	PES	ESC	39	12.78	-	-	-	0.000425 U	0.00173 J	0.000563 U	0.00508 U	1.13	0.0340	0.0320	0.00152 U	0.000725 U	
	IW-55B-43	9/13/18	PES	ESC	43	8.78	-	-	-	0.000452 U	0.00141 U	0.000600 U	0.00541 U	47.1	1.04	1.06	0.00162 U	0.0522	
	IW-55B-61	9/13/18	PES	ESC	61	-9.22	-	-	-	0.000475 U	0.00745	0.000966 J	0.00568 U	0.343	0.0155	3.42	0.0213	0.341	
IW-58A	IW-58A-38	10/17/18	PES	Pace	38	1.18	-	-	-	0.000437 U	0.00206 J	0.000579 U	0.00522 U	2.67 J	0.279	1.48	0.0323	0.0128	
	B-929-38	10/17/18	PES	Pace	38 (dup)	1.20	-	-	-	0.000450 U	0.00250 J	0.000597 U	0.00538 U	2.31 J	0.201	1.77	0.0456	0.0167	
MW101 (B101)	B101-30	7/10/12	SES	F&BI	30	9.49	-	-	-	-	-	-	-	24	0.12	0.05 U	0.05 U	0.05 U	



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																				
							Screening Levels							Detailed Results													
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC									
30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050																
MW101 (B101) (continued)	B101-34	7/10/12	SES	F&BI	34	5.49	-	-	-	-	-	-	-	8.4	0.033	0.05	U	0.05	U	0.05	U						
	B101-40	7/10/12	SES	F&BI	40	-0.51	-	-	-	-	-	-	-	20	0.28	0.064		0.05	U	0.05	U						
	B101-47	7/10/12	SES	F&BI	47	-7.51	-	-	-	-	-	-	-	7.2	0.20	0.12		0.05	U	0.05	U						
	B101-48	7/10/12	SES	F&BI	48	-8.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	B101-55	7/10/12	SES	F&BI	55	-15.51	-	-	-	-	-	-	-	4.2	0.084	0.05	U	0.05	U	0.05	U						
	B101-65	7/10/12	SES	F&BI	65	-25.51	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U				
	B101-75	7/11/12	SES	F&BI	75	-35.51	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U				
	B101-81	7/11/12	SES	F&BI	81	-41.51	-	-	-	-	-	-	-	0.31	0.03	U	0.05	U	0.05	U	0.05	U					
	B101-92	7/12/12	SES	F&BI	92	-52.51	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U				
	B101-97	7/12/12	SES	F&BI	97	-57.51	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U				
	B101-104	7/12/12	SES	F&BI	104	-64.51	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U				
	B101-114.5	7/12/12	SES	F&BI	114.5	-75.01	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U				
	B101-120	7/12/12	SES	F&BI	120	-80.51	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U				
	B101-131	7/12/12	SES	F&BI	131	-91.51	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U				
B101-140	7/12/12	SES	F&BI	140	-100.51	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
MW130 (B130)	B130-10	3/1/16	SES	F&BI	10	29.50	-	-	-	-	-	-	-	0.17	0.040	0.05	U	0.05	U	0.05	U						
	B130-20	3/1/16	SES	F&BI	20	19.50	-	-	-	-	-	-	-	0.82	0.054	0.05	U	0.05	U	0.05	U						
	B130-30	3/1/16	SES	F&BI	30	9.50	-	-	-	-	-	-	-	0.025	U	0.02	U	0.05	U	0.05	U	0.05	U				
	B130-40	3/1/16	SES	F&BI	40	-0.50	-	-	-	-	-	-	-	0.032	0.02	U	0.05	U	0.05	U	0.05	U					
	B130-45	3/2/16	SES	F&BI	45	-5.50	-	-	-	-	-	-	-	0.025	U	0.02	U	0.05	U	0.05	U	0.05	U				
	B130-50	3/2/16	SES	F&BI	50	-10.50	-	-	-	-	-	-	-	0.025	U	0.02	U	0.05	U	0.05	U	0.05	U				
	B130-55	3/2/16	SES	F&BI	55	-15.50	-	-	-	-	-	-	-	0.025	U	0.02	U	0.05	U	0.05	U	0.05	U				
	B130-60	3/2/16	SES	F&BI	60	-20.50	-	-	-	-	-	-	-	0.086	0.02	U	1.20	0.05	U	0.05	U	0.05	U				
	B130-65	3/2/16	SES	F&BI	65	-25.50	-	-	-	-	-	-	-	1.9	0.079	0.05	U	0.05	U	0.05	U	0.05	U				
	B130-70	3/2/16	SES	F&BI	70	-30.50	-	-	-	-	-	-	-	37	ve	0.44	0.073	0.05	U	0.05	U	0.05	U				
	B130-75	3/2/16	SES	F&BI	75	-35.50	-	-	-	-	-	-	-	2.9	0.058	0.05	U	0.05	U	0.05	U	0.05	U				
B130-80	3/2/16	SES	F&BI	80	-40.50	-	-	-	-	-	-	-	0.59	0.02	U	0.05	U	0.05	U	0.05	U						
MW131 (B131)	B131-10	3/1/16	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.025	U	0.02	U	0.05	U	0.05	U	0.05	U				
	B131-20	3/1/16	SES	F&BI	20	20.00	-	-	-	-	-	-	-	0.025	U	0.02	U	0.05	U	0.05	U	0.05	U				
	B131-30	3/1/16	SES	F&BI	30	10.00	-	-	-	-	-	-	-	0.097	2.4	3.2	0.064	0.05	U	0.05	U						
	B131-40	3/1/16	SES	F&BI	40	0.00	-	-	-	-	-	-	-	0.025	U	0.02	U	0.05	U	0.05	U	0.05	U				
	B131-45	3/2/16	SES	F&BI	45	-5.00	-	-	-	-	-	-	-	0.21	0.036	0.069	0.05	U	0.05	U	0.05	U					
	B131-55	3/2/16	SES	F&BI	55	-15.00	-	-	-	-	-	-	-	0.44	0.60	0.55	0.05	U	0.05	U	0.05	U					
MW-132	MW-132-20	8/22/17	PES	ESC	20	20.10	0.0378	U	-	-	0.000301	U	0.000484	U	0.000331	U	0.000778	U	0.000312	J	0.000380	J	0.0108	0.000443	J	0.00217	
	MW-132-35	8/22/17	PES	ESC	35	5.10	0.0379	U	-	-	0.000302	U	0.000486	U	0.000332	U	0.000781	U	0.00166	0.000312	U	0.00506	0.000295	U	0.00377	UJ	
	MW-132-50	8/22/17	PES	ESC	50	-9.90	1.97	-	-	0.000292	U	0.000470	U	0.000321	U	0.000755	U	0.109	0.153	4.62	0.0405	0.00219					
	MW-132-55	8/23/17	PES	ESC	55	-14.90	126	z	-	0.0310	U	0.0499	U	0.0342	U	0.0803	U	385	9.63	2.22	0.0725	J	0.0335	U			
	MW-132-60	8/23/17	PES	ESC	60	-19.90	0.276	-	-	0.000291	U	0.000467	U	0.000320	U	0.000752	U	3.92	4.60	0.0871	0.000785	J	0.000808	J			
	MW-132-70	8/23/17	PES	ESC	70	-29.90	1.03	U	-	0.000329	U	0.000529	U	0.000362	U	0.000851	U	0.00905	J	0.00851	U	0.000586	J	0.000322	U	0.000355	U
	MW-132-83	8/23/17	PES	ESC	83	-42.90	0.925	U	-	0.000302	J	0.000473	U	0.000324	U	0.000761	U	0.00753	U	0.000304	U	0.000283	J	0.000288	U	0.000317	U
MW-133	MW-133-20	8/15/17	PES	ESC	20	20.08	0.183	-	-	0.000422	J	0.000511	U	0.000350	U	0.000823	U	3.62	0.0688	0.159	0.000591	J	0.000389	J			
	MW-133-35	8/15/17	PES	ESC	35	5.08	0.0443	U	-	0.000353	U	0.000567	U	0.000388	U	0.000911	U	0.00901	U	0.000594	J	0.000361	J	0.000345	U	0.000380	U
	MW-133-45	8/15/17	PES	ESC	45	-4.92	3.59	J	-	0.000293	U	0.000472	U	0.000323	U	0.000759	U	5.17	0.309	13.0	0.00508	0.000323	0.323				
	MW-133-55	8/15/17	PES	ESC	55	-14.92	38.9	Jz	-	0.0661	U	0.106	U	0.0727	U	0.171	U	114	0.988	4.09	0.0646	U	0.0712	U			
	MW-133-58	8/15/17	PES	ESC	58	-17.92	387	Jz	-	1.60	U	2.57	U	1.75	U	4.13	U	691	1.66	U	1.40	U	1.56	U	1.73	U	
	MW-133-65	8/15/17	PES	ESC	65	-24.92	7.21	Jz	-	0.000313	U	0.000502	U	0.000344	U	0.000808	U	36.0	2.96	1.41	0.00123	0.00631					
	MW-133-75	8/15/17	PES	ESC	75	-34.92	0.0394	U	-	0.000314	U	0.000505	U	0.000346	U	0.000812	U	0.0468	J	0.000647	J	0.00191	0.000307	U	0.000339	U	
	MW-133-85	8/15/17	PES	ESC	85	-44.92	1.28	J	-	0.00791	U	0.580	0.00870	U	0.0204	U	2.28	0.146	0.0717	0.00774	U	0.00853	U				
	MW-133-95	8/16/17	PES	ESC	95	-54.92	0.0572	U	-	0.000315	U	0.000506	U	0.000346	U	0.000813	U	0.00127	0.000325	U	0.000274	U	0.000308	U	0.000339	U	
	MW-133-105	8/16/17	PES	ESC	105	-64.92	0.0849	U	-	0.000325	U	0.000523	U	0.000358	U	0.000840	U	0.000345	J	0.000336	U	0.000283	U	0.000318	U	0.000350	U
	MW-133-120	8/16/17	PES	ESC	120	-79.92	0.0964	U	-	0.00734	U	0.0117	U	0.00806	U	0.0189	U	0.00750	U	0.00759	U	0.00639	U	0.00717	U	0.00791	U

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																					
							GRO		DRO		ORO		Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC							
							30	U	2,000	U	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050								
MW-133 (continued)	MW-133-130	8/16/17	PES	ESC	130	-89.92	<b>0.109</b>	U	-	-	0.000322	U	0.000517	U	0.000354	U	0.000832	U	<b>0.0119</b>	<b>0.00354</b>	<b>0.000888</b>	J	0.000314	U	0.000347	U		
	MW-133-135	8/16/17	PES	ESC	135	-94.92	<b>15.3</b>	Jw	-	-	<b>0.00369</b>	U	<b>0.0119</b>	U	<b>0.00179</b>	U	<b>0.00392</b>	U	<b>0.0107</b>	<b>0.000965</b>	J	<b>0.000836</b>	J	0.000299	U	0.000330	U	
	MW-133-141	8/16/17	PES	ESC	141	-100.92	0.955	U	-	-	<b>0.000766</b>	J	0.000489	U	0.000334	U	0.000786	U	0.000311	U	0.000314	U	0.000265	U	0.000297	U	0.000328	U
MW-134	MW-134-20	8/29/17	PES	ESC	20	21.45	1.12	U	-	-	0.00197	U	0.000571	U	0.000391	U	0.000919	U	0.000363	U	0.000367	U	0.000309	U	0.000347	U	0.000383	U
	MW-134-43	8/29/17	PES	ESC	43	-1.55	0.984	U	-	-	0.000313	U	0.000504	U	0.000345	U	0.000810	U	<b>0.00863</b>	<b>0.0551</b>	<b>2.58</b>	<b>0.0111</b>	J	<b>0.217</b>				
	MW-134-50	8/29/17	PES	ESC	50	-8.55	<b>1.35</b>	U	-	-	0.000297	U	0.000477	U	0.000327	U	0.000767	U	<b>17.9</b>	<b>2.34</b>	<b>0.740</b>	<b>0.0290</b>	U	<b>0.0196</b>				
	MW-134-60	8/29/17	PES	ESC	60	-18.55	<b>0.447</b>	U	-	-	0.000298	U	0.000479	U	0.000328	U	0.000771	U	<b>0.0770</b>	<b>0.00544</b>	<b>4.46</b>	<b>0.00729</b>	U	<b>0.0118</b>				
	MW-134-70	8/29/17	PES	ESC	70	-28.55	1.11	U	-	-	0.000344	U	0.000554	U	0.000379	U	0.000890	U	<b>0.0742</b>	<b>0.0111</b>	<b>0.0468</b>	<b>0.000337</b>	U	<b>0.0426</b>				
	MW-134-80	8/29/17	PES	ESC	80	-38.55	0.970	U	-	-	0.000289	U	0.000464	U	0.000318	U	0.000746	U	<b>0.0105</b>	<b>0.00316</b>	<b>0.0119</b>	<b>0.000282</b>	U	<b>0.00656</b>	J			
	B-903-100	8/29/17	PES	ESC	80 (dup)	-38.55	0.893	U	-	-	0.000284	U	0.000457	U	0.000313	U	0.000735	U	<b>0.0407</b>	<b>0.0132</b>	<b>0.0725</b>	<b>0.000278</b>	U	<b>0.0143</b>	J			
	MW-134-90	8/29/17	PES	ESC	90	-48.55	1.08	U	-	-	0.000343	U	0.000551	U	0.000377	U	0.000886	U	<b>0.000676</b>	<b>0.000354</b>	<b>0.00747</b>	<b>0.00838</b>	U	0.000370	U			
MW-135	MW-135-16	8/24/17	PES	ESC	14	25.11	<b>641</b>	z	-	-	0.0329	U	<b>0.166</b>	J	<b>0.0750</b>	J	<b>0.331</b>	J	<b>933</b>	<b>113</b>	<b>329</b>	<b>0.700</b>	<b>17.0</b>					
	MW-135-20	8/24/17	PES	ESC	20	19.11	<b>0.277</b>	U	-	-	0.00769	U	0.0123	U	0.00845	U	0.0198	U	<b>1.73</b>	<b>0.461</b>	<b>0.408</b>	0.00752	U	<b>0.0241</b>	J			
	MW-135-30	8/24/17	PES	ESC	30	9.11	<b>10.4</b>	z	-	-	0.000287	U	<b>0.00159</b>	J	0.000315	U	<b>0.00135</b>	J	<b>109</b>	<b>2.90</b>	<b>1.98</b>	<b>0.00363</b>		<b>0.0430</b>				
	MW-135-36	8/24/17	PES	ESC	36	3.11	<b>0.733</b>	U	-	-	0.000315	U	0.000507	U	0.000347	U	0.000815	U	<b>20.1</b>	<b>0.0571</b>	<b>0.154</b>	<b>0.000907</b>	J	<b>0.00962</b>				
	MW-135-40	8/24/17	PES	ESC	40	-0.89	<b>4.34</b>	U	-	-	0.000322	U	0.000518	U	0.000354	U	0.000832	U	<b>10.6</b>	<b>2.71</b>	<b>12.8</b>	<b>0.00769</b>		<b>0.405</b>				
	MW-135-45	8/24/17	PES	ESC	45	-5.89	<b>5.09</b>	z	-	-	0.000321	U	0.000515	U	0.000353	U	0.000829	U	<b>69.7</b>	<b>3.10</b>	<b>5.35</b>	<b>0.00859</b>		<b>0.00963</b>				
	MW-135-55	8/24/17	PES	ESC	55	-15.89	<b>0.157</b>	U	-	-	0.000293	U	0.000471	U	0.000323	U	0.000758	U	<b>8.68</b>	<b>0.0673</b>	<b>0.0594</b>	0.000287	U	<b>0.00105</b>	J			
	MW-135-65	8/24/17	PES	ESC	65	-25.89	<b>0.161</b>	U	-	-	0.000320	U	0.000515	U	0.000352	U	0.000828	U	<b>0.190</b>	<b>0.00881</b>	<b>0.0170</b>	0.000313	U	0.000345	U			
MW-135-80	8/24/17	PES	ESC	80	-40.89	<b>0.138</b>	U	-	-	0.000302	U	0.000485	U	0.000332	U	0.000780	U	<b>0.0106</b>	<b>0.000372</b>	<b>0.00115</b>	0.000295	U	0.000325	U				
MW-136	MW-136-35	8/28/17	PES	ESC	35	16.87	-	-	-	0.000284	U	0.000457	U	0.000313	U	0.000735	U	<b>0.00777</b>	<b>0.000437</b>	<b>0.0117</b>	0.000278	U	0.000306	U				
	B-902-15	8/28/17	PES	ESC	35 (dup)	16.87	-	-	-	0.000295	U	0.000474	U	0.000324	U	0.000762	U	<b>0.00621</b>	<b>0.000324</b>	<b>0.0141</b>	0.000288	U	0.000318	U				
	MW-136-44	8/28/17	PES	ESC	44	7.87	-	-	-	0.000303	U	0.000487	U	0.000333	U	0.000783	U	0.0853	UJ	<b>0.00255</b>	<b>0.0174</b>	0.000296	U	0.000327	U			
	MW-136-50	8/28/17	PES	ESC	50	1.87	-	-	-	0.000311	U	0.000499	U	0.000342	U	0.000803	U	0.000318	U	0.000321	U	0.00677	U	0.00759	U	0.000335	U	
	MW-136-65	8/28/17	PES	ESC	65	-13.13	-	-	-	<b>0.000838</b>	J	0.000472	U	0.000323	U	0.000759	U	0.000300	U	0.000303	U	0.000256	U	0.000287	U	0.000316	U	
	MW-136-75	8/28/17	PES	ESC	75	-23.13	-	-	-	0.000300	U	0.000482	U	0.000330	U	0.000775	U	0.000307	U	0.000310	U	0.000261	U	0.000293	U	0.000323	U	
	MW-136-85	8/28/17	PES	ESC	85	-33.13	-	-	-	0.000301	U	0.000485	U	0.000332	U	0.000779	U	0.000308	U	0.000311	U	0.000262	U	0.000295	U	0.000325	U	
MW-136-95	8/28/17	PES	ESC	95	-43.13	-	-	-	0.000302	U	0.000486	U	0.000332	U	0.000781	U	0.000309	U	0.000312	U	0.000263	U	0.000295	U	0.000326	U		
MW-137	MW-137-25	8/31/17	PES	ESC	25	26.73	0.0370	U	-	-	0.000294	U	0.000473	U	0.000324	U	0.000761	U	<b>0.00174</b>	<b>0.00245</b>	<b>0.000783</b>	J	0.000288	U	0.000317	U		
	MW-137-45	8/31/17	PES	ESC	45	6.73	0.0384	U	-	-	0.00764	U	0.0122	U	0.00840	U	0.0197	U	0.00781	U	0.00790	U	<b>0.00753</b>	J	0.00747	U	0.00824	U
	MW-137-75	8/31/17	PES	ESC	75	-23.27	-	-	-	<b>0.000533</b>	J	0.000477	U	0.000326	U	0.000766	U	0.000303	U	0.000306	U	0.000258	U	0.000290	U	0.000319	U	
	MW-137-85	9/1/17	PES	ESC	85	-33.27	0.0406	U	-	-	0.000324	U	0.000520	U	0.000356	U	0.000837	U	0.000331	U	0.000334	U	0.000282	U	0.000316	U	0.000349	U
	MW-137-95	9/1/17	PES	ESC	95	-43.27	0.0363	U	-	-	0.000289	U	0.000465	U	0.000318	U	0.000747	U	0.000296	U	0.000299	U	0.000252	U	0.000283	U	0.000312	U
	MW-137-115	9/1/17	PES	ESC	115	-63.27	0.0415	U	-	-	0.000330	U	0.000531	U	0.000363	U	0.000854	U	0.000338	U	0.000341	U	0.000287	U	0.000323	U	0.000356	U
MW-139	MW-139-20	9/13/17	PES	ESC	20	19.81	-	-	-	0.000312	U	0.000502	U	0.000344	U	0.000807	U	<b>0.0138</b>	J	0.000323	U	<b>0.000500</b>	J	0.000305	U	<b>0.00397</b>		
	MW-139-31	9/13/17	PES	ESC	31	8.81	-	-	-	0.000289	U	0.000464	U	0.000318	U	0.000747	U	<b>0.00308</b>	<b>0.000467</b>	<b>0.00814</b>	0.000282	U	<b>0.00139</b>					
	MW-139-41	9/13/17	PES	ESC	41	-1.19	-	-	-	0.000290	U	0.000466	U	0.000319	U	0.000750	U	<b>0.0126</b>	<b>0.00100</b>	<b>0.0982</b>	<b>0.000407</b>	J	<b>0.00209</b>					
	MW-139-51	9/13/17	PES	ESC	51	-11.19	-	-	-	0.000312	U	0.000501	U	0.000343	U	0.000805	U	<b>0.000397</b>	J	0.000322	U	<b>0.000763</b>	J	0.000305	U	0.000336	U	
	MW-139-60	9/13/17	PES	ESC	60	-20.19	-	-	-	0.000290	U	0.000466	U	0.000319	U	0.000750	U	0.000296	U	0.000300	U	0.000252	U	0.000284	U	0.000313	U	
	MW-139-70	9/13/17	PES	ESC	70	-30.19	-	-	-	0.000319	U	0.000512	U	0.000350	U	0.000824	U	0.000326	U	0.000329	U	0.000277	U	0.000312	U	0.000343	U	
	MW-139-80	9/13/17	PES	ESC	80	-40.19	-	-	-	0.000305	U	0.000490	U	0.000336	U	0.000789	U	0.000780	U	0.000315	U	0.000266	U	0.000298	U	0.000329	U	
MW-141	MW-141-15	9/18/17	PES	ESC	15	24.59	-	-	-	0.000305	U	0.000490	U	0.000335	U	0.000787	U	0.000311	U	0.000315								

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)														
							GRO		DRO		ORO		Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050			
MW-152 (continued)	MW-152-15	3/13/18	PES	ESC	15	24.11	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000773 U	6.12	0.101	0.00864	0.000292 U	0.000322 U			
	MW-152-25	3/13/18	PES	ESC	25	14.11	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	0.276	0.00768	1.11	0.00188	0.00488			
	MW-152-35	3/13/18	PES	ESC	35	4.11	-	-	-	0.000296 U	0.000476 U	0.000326 U	0.000765 U	1.23	0.0203	0.776	0.00168	0.0282			
	MW-152-45	3/13/18	PES	ESC	45	-5.89	-	-	-	0.000304 U	0.000853 J	0.000335 U	0.00173 J	122	0.532 J	7.54	0.00382	1.06			
	MW-152-55	3/13/18	PES	ESC	55	-15.89	-	-	-	0.000306 U	0.000571 J	0.000336 U	0.000791 U	57.4	0.0545	4.37	0.0117	0.0949			
	MW-152-60	3/13/18	PES	ESC	60	-20.89	-	-	-	0.000292 U	0.000470 U	0.000321 U	0.000755 U	3.92	0.00733	0.167	0.000850 J	0.0100			
MW-162	MW-162-48	1/28/19	PES	Pace	48	-9.6	-	-	-	0.00865 U	0.0270 U	0.0115 U	0.103 U	34.1	4.66	1.57	0.0309 U	0.0148 U			
	MW-162-50	1/28/19	PES	Pace	50	-11.6	-	-	-	0.000467 U	0.00146 U	0.000619 U	0.00558 U	5.26 J	1.11	0.766	0.00213 J	0.00368			
	B-930-50 (dup)	1/28/19	PES	Pace	50	-11.6	-	-	-	0.000494 J	0.00462 J	0.000589 U	0.00531 U	13.7	5.91	7.57	0.0107	0.0124			
	MW-162-67	1/28/19	PES	Pace	67	-28.6	-	-	-	0.000465 U	0.00145 U	0.000616 U	0.00555 U	9.41	0.900	0.253	0.00166 U	0.000793 U			
	MW-162-70	1/28/19	PES	Pace	70	-31.6	-	-	-	0.000937 J	0.00278 J	0.000641 J	0.00534 U	21.7 J	1.67	1.44	0.00593	0.0156			
	MW-162-72	1/28/19	PES	Pace	72	-33.6	-	-	-	0.000432 U	0.00135 U	0.000572 U	0.00516 U	11.6 J	0.613	0.358	0.00154 U	0.00126 J			
	MW-162-80	1/28/19	PES	Pace	80	-41.6	-	-	-	0.000450 J	0.00139 U	0.000590 U	0.00532 U	0.150	0.0699	2.23	0.00256 J	0.00787			
	MW-162-85	1/28/19	PES	Pace	85	-46.6	-	-	-	0.000535 J	0.00163 J	0.000600 U	0.00541 U	0.00281 J	0.00139	0.0203	0.00162 U	0.000773 U			
	MW-162-90	1/28/19	PES	Pace	90	-51.6	-	-	-	0.000452 U	0.00141 U	0.000599 U	0.00540 U	0.000964 J	0.00615	0.0193	0.00162 U	0.000772 U			
	MW-162-95	1/28/19	PES	Pace	95	-56.6	-	-	-	0.000459 U	0.00143 U	0.000608 U	0.00548 U	0.276 J	0.0152	0.0178	0.00164 U	0.000784 U			
	MW-162-100	1/28/19	PES	Pace	100	-61.6	-	-	-	0.000467 U	0.00146 U	0.000619 U	0.00558 U	0.00679 J	0.000467 U	0.00108 J	0.00167 U	0.000797 U			
	MW-162-105	1/28/19	PES	Pace	105	-66.6	-	-	-	0.000450 U	0.00141 U	0.000596 U	0.00537 U	0.0269 J	0.00349	0.00206 J	0.00161 U	0.000768 U			
	MW-162-110	1/28/19	PES	Pace	110	-71.6	-	-	-	0.000438 U	0.00137 U	0.000580 U	0.00523 U	0.00190 J	0.000438 U	0.000755 U	0.00157 U	0.000748 U			
	MW-163	MW-163-47	1/29/19	PES	Pace	47	-7.7	-	-	-	0.000517 J	0.00160 J	0.000593 U	0.00535 U	7.09 J	0.745	5.83 J	0.0358	0.0322		
MW-163-50		1/29/19	PES	Pace	50	-10.7	-	-	-	0.000594 J	0.00254 J	0.000573 U	0.00516 U	2.61 J	0.128	16.6 J	0.132	0.189			
MW-163-55		1/29/19	PES	Pace	55	-15.7	-	-	-	0.000680 J	0.00286 J	0.000650 U	0.00585 U	1.66 J	2.32	6.47 J	0.0326	0.00971			
MW-163-60		1/29/19	PES	Pace	60	-20.7	-	-	-	0.000453 U	0.00189 J	0.000600 U	0.00541 U	6.69 J	3.59 J	4.64 J	0.0192	0.00599			
MW-163-80		1/29/19	PES	Pace	80	-40.7	-	-	-	0.000455 U	0.00142 U	0.000603 U	0.00544 U	0.0191	0.0388	0.0732	0.00306 J	0.000777 U			
MW-163-85		1/29/19	PES	Pace	85	-45.7	-	-	-	0.000473 U	0.00148 U	0.000627 U	0.00566 U	0.00202 J	0.000473 U	0.000916 J	0.00169 U	0.000808 U			
MW-163-90		1/29/19	PES	Pace	90	-50.7	-	-	-	0.000434 U	0.00136 U	0.000575 U	0.00518 U	0.0806 J	0.0834	0.136	0.00614	0.000741 U			
MW-163-95		1/29/19	PES	Pace	95	-55.7	-	-	-	0.000633 J	0.00264 J	0.000628 U	0.00567 U	2.05	0.346	0.0255	0.00458 J	0.000810 U			
MW-163-100		1/29/19	PES	Pace	100	-60.7	-	-	-	0.000590 J	0.00144 U	0.000609 U	0.00549 U	0.0109	0.00246	0.00269 J	0.00164 U	0.000784 U			
MW-163-105		1/29/19	PES	Pace	105	-65.7	-	-	-	0.000420 U	0.00131 U	0.000556 U	0.00502 U	0.00124 J	0.00256	0.0249	0.00150 U	0.000717 U			
MW-163-110		1/29/19	PES	Pace	110	-70.7	-	-	-	0.000587 J	0.00138 U	0.000587 U	0.00530 U	0.00134 J	0.000687 J	0.00194 J	0.00158 U	0.000757 U			
MW-164	MW-164-80	1/24/19	PES	Pace	80	-40.3	-	-	-	0.000455 U	0.00142 U	0.000603 U	0.00544 U	0.00236 J	0.000455 U	0.0194	0.00163 U	0.0313			
	MW-164-87	1/24/19	PES	Pace	87	-47.3	-	-	-	0.000448 U	0.00140 U	0.000593 U	0.00535 U	0.00102 J	0.000448 U	0.00519	0.00160 U	0.0349			
	MW-164-90	1/24/19	PES	Pace	90	-50.3	-	-	-	0.000468 U	0.00146 U	0.000621 U	0.00560 U	0.428	0.0599	0.087	0.00250 J	0.0101			
	MW-164-95	1/24/19	PES	Pace	95	-55.3	-	-	-	0.000478 U	0.00149 U	0.000634 U	0.00572 U	0.788	0.172	0.474	0.00379 J	0.00420			
	MW-164-100	1/24/19	PES	Pace	100	-60.3	-	-	-	0.000500 U	0.00156 U	0.000663 U	0.00598 U	0.00777	0.0124	0.00428	0.00179 U	0.00145 J			
	MW-164-105	1/24/19	PES	Pace	105	-65.3	-	-	-	0.000444 U	0.00150 J	0.000588 U	0.00530 U	0.00369	0.000444 U	0.00442	0.00159 U	0.00428			
	MW-164-110	1/24/19	PES	Pace	110	-70.3	-	-	-	0.000441 U	0.00138 U	0.000584 U	0.00527 U	0.000772 U	0.000441 U	0.000761 U	0.00158 U	0.000753 U			
P01	P01-05	2/12/14	SES	F&BI	5	35.50	2 U	50 U	250 U	0.02 U	0.02 U	0.02 U	0.06 U	-	-	-	-	-			
	P01-10	2/12/14	SES	F&BI	10	30.50	2 U	230 x	250 U	0.02 U	0.02 U	0.02 U	0.06 U	-	-	-	-	-			
P02	P02-05	2/12/14	SES	F&BI	5	34.50	-	-	-	-	-	-	-	0.16	0.03 U	0.05 U	0.05 U	0.05 U			
	P02-07.5	2/12/14	SES	F&BI	7.5	32.00	-	-	-	-	-	-	-	1.2	0.072	0.05 U	0.05 U	0.05 U			
P03	P03-05	2/12/14	SES	F&BI	5	34.50	-	-	-	-	-	-	-	0.36	0.03 U	0.05 U	0.05 U	0.05 U			
P03	P03-07.5	2/12/14	SES	F&BI	7.5	32.00	-	-	-	-	-	-	-	0.061	0.03 U	0.05 U	0.05 U	0.05 U			
P04	P04-05	2/12/14	SES	F&BI	7.5	32.50	-	-	-	-	-	-	-	0.55	0.03 U	0.05 U	0.05 U	0.05 U			
	P04-10	2/12/14	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U			
P05	P05-05	2/12/14	SES	F&BI	5	35.00	-	-	-	-	-	-	-	0.049	0.03 U	0.05 U	0.05 U	0.05 U			
	P05-07.5	2/12/14	SES	F&BI	7.5	32.50	-	-	-	-	-	-	-	0.031	0.03 U	0.05 U	0.05 U	0.05 U			
P06	P06-07.5	2/12/14	SES	F&BI	7.5	32.50	-	-	-	-	-	-	-	0.31	0.03 U	0.05 U	0.05 U	0.05 U			
	P06-10	2/12/14	SES	F&BI	10	30.00	-	-	-	-	-	-	-	0.083	0.03 U	0.05 U	0.05 U	0.05 U			
R-MW1	Unknown	10/22/92	Roux	Unknown	5	32.78	-	-	-	-	-	-	-	5.8	0.35	-	0.005 U	0.010 U			
W-MW-03 (P-07)	SB-W-07-0135	1/26/12	WW	ARI	13.5-14	25.23	-	-	-	0.0007 J	0.0024	0.0009 U	0.0008 J	0.0038	0.0005 J	0.0008 J	0.0009 U	0.0009 U			

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)												
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Levels							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	
	SB-W-07-0275	1/26/12	WW	ARI	27.5-28	11.23	-	-	-	0.0005 J	0.0013	0.0009 U	0.0018 U	0.12	0.0053	0.083	0.0013	0.0009 U	
	SB-W-07-0335	1/26/12	WW	ARI	33.5-34	5.23	-	-	-	0.0008 U	0.0012	0.0008 U	0.0004 J	18 B	0.05	0.011	0.0008 U	0.0008 U	
	SB-W-07-0430	1/26/12	WW	ARI	43-43.5	-4.27	-	-	-	0.0008 U	0.0009	0.0008 U	0.0016 U	46 B	0.7	0.091	0.0009	0.0008 U	
	SB-W-07-0530	1/26/12	WW	ARI	53-53.5	-14.27	-	-	-	0.0008 U	0.0012	0.0008 U	0.0016 U	18 B	1.1	0.63	0.0009	0.0008 U	
	SB-W-07-0630	1/26/12	WW	ARI	63-63.5	-24.27	-	-	-	0.0010 U	0.0007 J	0.0010 U	0.0020 U	0.0012 B	0.0010 U	0.0010 U	0.0010 U	0.0010 U	
	SB-W-07-0780	1/26/12	WW	ARI	78-78.5	-39.27	-	-	-	0.0008 U	0.0004 J	0.0008 U	0.0016 U	0.0023 B	0.0008 U	0.0008 U	0.0008 U	0.0008 U	
W-MW-04 (P-08)	SB-W-08-0090	1/28/12	WW	ARI	9-9.5	26.03	-	-	-	0.27 U	0.27 U	0.27 U	0.54 U	9.5 T	2.3	7.3	0.22 J	0.71	
	SB-W-08-0155	1/28/12	WW	ARI	15.5-16	19.53	-	-	-	0.0009 U	0.0006 J	0.0009 U	0.0018 U	0.38 T	0.11	0.12	0.0039	0.12	
	SB-W-08-0265	1/28/12	WW	ARI	26.5-27	8.53	-	-	-	0.0009 U	0.0006 J	0.0009 U	0.0019 U	0.37 T	0.0052	0.0043	0.0009 U	0.0009 U	
	SB-W-08-0380	1/28/12	WW	ARI	38-38.5	-2.97	-	-	-	0.0008 U	0.0008 U	0.0008 U	0.0016 U	0.48 T	0.0019	0.0012	0.0008 U	0.0008 U	
	SB-W-08-0480	1/28/12	WW	ARI	48-48.5	-12.97	-	-	-	0.0005 J	0.0013	0.0009 U	0.0018 U	0.025 T	0.0007 J	0.0009 J	0.0009 U	0.0009 U	
	SB-W-08-9480	1/28/12	WW	ARI	48-48.5 (dup)	-12.97	-	-	-	0.0004 J	0.0008 J	0.0009 U	0.0018 U	0.016 T	0.0009 U	0.0005 J	0.0009 U	0.0009 U	
	SB-W-08-0590	1/28/12	WW	ARI	59-59.5	-23.97	-	-	-	0.13 U	0.13 U	0.13 U	0.26 U	10 T	0.081 J	0.13 U	0.13 U	0.13 U	
	SB-W-08-0710	1/29/12	WW	ARI	71-71.5	-35.97	-	-	-	0.2 U	0.2 U	0.2 U	0.4 U	9.4 T	0.33	0.2 U	0.2 U	0.2 U	
	SB-W-08-0760	1/29/12	WW	ARI	76-76.5	-40.97	-	-	-	0.0009 U	0.0009	0.0009 U	0.0018 U	0.017 T	0.0009 U	0.0009 U	0.0009 U	0.0009 U	
<b>On Property Statistics</b>							Number of Analytes Measured	106	4	4	856	856	856	856	992	991	991	992	991
							Number of Analytes Detected	60	1	0	91	143	40	33	839	695	729	282	412
							Frequency of Detection	57%	25%	0%	11%	17%	5%	4%	85%	70%	74%	28%	42%
							Maximum Detection	260	230 x	-	0.304	0.580	4.74	6.02	16,400	113	329	0.70	17.0
							Minimum Detection	0.0353 U	50.0 U	250 U	0.000281 U	0.000325 U	0.000297 UJ	0.000400 J	0.000290 U	0.000293 U	0.000247 U	0.000275 U	0.000306 UJ
<b>Off Property</b>																			
B-1A	B-1/S-2	12/1/89	HC	ARI	10.5	-	800	-	-	-	-	-	-	-	-	-	-	-	
B-2A	B-2/S-1	12/1/89	HC	ARI	10	-	12	-	-	-	-	-	-	-	-	-	-	-	
B-212	B-212-15	9/8/17	PES	ESC	15	42.61	0.977 U	-	-	0.000311 U	0.000500 U	0.000342 U	0.000804 U	0.000318 U	0.000321 U	0.000271 UJ	0.000304 U	0.000335 U	
	B-212-21	9/8/17	PES	ESC	21	36.61	63.0 q	-	-	0.000346 J	0.000649 J	0.00103 J	0.0131	0.000490 J	0.000290 U	0.000244 UJ	0.000274 U	0.000302 U	
	B-212-35	9/8/17	PES	ESC	35	22.61	1.98 U	-	-	0.000294 U	0.000473 U	0.000324 U	0.000761 U	0.000955 J	0.000304 U	0.000256 UJ	0.000288 U	0.000317 U	
	B-212-45	9/8/17	PES	ESC	45	12.61	2.81 J	-	-	0.000303 J	0.000454 U	0.000311 U	0.000730 U	0.000289 U	0.000292 U	0.000246 UJ	0.000276 U	0.000304 U	
	B-907-25	9/8/17	PES	ESC	45 (dup)	12.61	1.16 U	-	-	0.000807 U	0.0129 U	0.000887 U	0.0208 U	0.000825 U	0.000834 U	0.000703 U	0.000789 U	0.000870 U	
	B-212-55	9/8/17	PES	ESC	55	2.61	3.40 J	-	-	0.000305 U	0.000490 U	0.000335 U	0.000787 U	0.000311 U	0.000315 U	0.000265 UJ	0.000298 U	0.000328 U	
	B-212-65	9/8/17	PES	ESC	65	-7.39	1.29 U	-	-	0.000313 U	0.000504 U	0.000345 U	0.000810 U	0.000320 U	0.000324 U	0.000273 U	0.000306 U	0.000338 U	
	B-212-75	9/8/17	PES	ESC	75	-17.39	1.05 U	-	-	0.000314 U	0.000505 U	0.000345 U	0.000812 U	0.000321 U	0.000324 U	0.000273 U	0.000307 U	0.000338 U	
	B-212-85	9/11/17	PES	ESC	85	-27.39	0.0385 U	-	-	0.000306 U	0.000492 U	0.000337 U	0.000792 U	0.000313 U	0.000317 U	0.000267 U	0.000300 U	0.000330 U	
	B-212-95	9/11/17	PES	ESC	95	-37.39	0.0422 U	-	-	0.000354 U	0.000568 U	0.000389 U	0.000913 U	0.000361 U	0.000365 U	0.000308 U	0.000345 U	0.000381 U	
	B-212-100	9/11/17	PES	ESC	100	-42.39	0.0409 U	-	-	0.000326 U	0.000524 U	0.000358 U	0.000842 U	0.000333 U	0.000337 U	0.000284 U	0.000319 U	0.000351 U	
B-213	B-213-15	9/5/17	PES	ESC	15	42.42	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	0.00289	0.000323 U	0.000272 U	0.000306 U	0.000337 U	
	B-213-21.5	9/5/17	PES	ESC	22	35.92	-	-	-	0.000385 J	0.000540 J	0.000991 J	0.0126 J	0.00263	0.000291 U	0.000245 U	0.000275 U	0.000303 U	
	B-213-35	9/5/17	PES	ESC	35	22.42	-	-	-	0.000292 U	0.000470 U	0.000322 U	0.000756 U	0.000299 U	0.000302 U	0.000254 U	0.000286 U	0.000315 U	
	B-213-45	9/5/17	PES	ESC	45	12.42	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000774 U	0.000306 U	0.000309 U	0.000260 U	0.000293 U	0.000323 U	
	B-213-55	9/5/17	PES	ESC	55	2.42	-	-	-	0.000294 U	0.000472 U	0.000323 U	0.000760 U	0.000300 U	0.000304 U	0.000256 U	0.000287 U	0.000317 U	
	B-213-65	9/5/17	PES	ESC	65	-7.58	-	-	-	0.000297 U	0.000478 U	0.000327 U	0.000768 U	0.000304 U	0.000307 U	0.000259 U	0.000290 U	0.000320 U	
	B-213-75	9/5/17	PES	ESC	75	-17.58	-	-	-	0.000295 U	0.000474 U	0.000325 U	0.000763 U	0.000302 U	0.000305 U	0.000257 U	0.000289 U	0.000318 U	
	B-213-85	9/5/17	PES	ESC	85	-27.58	-	-	-	0.000329 U	0.000529 U	0.000362 U	0.000851 U	0.000336 U	0.000340 U	0.000286 U	0.000322 U	0.000355 U	
	B-213-95	9/6/17	PES	ESC	95	-37.58	-	-	-	0.000334 U	0.000536 U	0.000367 U	0.000862 U	0.000341 U	0.000345 U	0.000290 U	0.000326 U	0.000359 U	
	B-213-105	9/6/17	PES	ESC	105	-47.58	-	-	-	0.000310 U	0.000499 U	0.000341 U	0.000802 U	0.000317 U	0.000321 U	0.000270 U	0.000303 U	0.000334 U	
	B-906-110	9/6/17	PES	ESC	105 (dup)	-47.58	-	-	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	0.000317 U	0.000320 U	0.000270 U	0.000303 U	0.000334 U	
		B-213-115	9/6/17	PES	ESC	115	-57.58	-	-	-	0.000331 U	0.000532 U	0.000364 U	0.000856 U	0.000338 U	0.000342 U	0.000288 U	0.000324 U	0.000357 U
	B-213-125	9/6/17	PES	ESC	125	-67.58	-	-	-	0.000400 U	0.000642 U	0.000440 U	0.00103 U	0.000408 U	0.000413 U	0.000348 U	0.000391 U	0.000431 U	
B-214	B-214-15	9/7/17	PES	ESC	15	42.42	-	-	-	0.000290 U	0.000465 U	0.000318 U	0.000748 U	0.000296 U	0.000299 U	0.000252 UJ	0.000283 U	0.000312 U	
	B-214-25	9/7/17	PES	ESC	25	32.42	-	-	-	0.000285 U	0.000459 U	0.000314 U	0.000738 U	0.000292 U	0.000295 U	0.000248 UJ	0.000279 U	0.000308 U	
	B-214-35	9/7/17	PES	ESC	35	22.42	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000758 U	0.000300 U	0.000303 U	0.000255 UJ	0.000287 U	0.000316 U	
	B-214-45	9/7/17	PES	ESC	45	12.42	-	-	-	0.000287 U	0.000462 U	0.000316 U	0.000743 U	0.000294 U	0.000297 U	0.000250 UJ	0.000281 U	0.000310 U	



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																		
							Screening Levels							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050							
B-214 (continued)	B-214-55	9/7/17	PES	ESC	55	2.42	-	-	-	0.000343 J	0.000482 U	0.000330 U	0.000775 U	0.000306 U	0.000310 U	0.000261 UJ	0.000293 U	0.000323 U							
	B-214-65	9/7/17	PES	ESC	65	-7.58	-	-	-	0.000347 U	0.000559 U	0.000382 U	0.000898 U	0.000355 U	0.000359 U	0.000302 U	0.000340 U	0.000375 U							
	B-214-75	9/7/17	PES	ESC	75	-17.58	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	0.000307 U	0.000310 U	0.000261 U	0.000293 U	0.000323 U							
	B-214-85	9/7/17	PES	ESC	85	-27.58	-	-	-	0.000325 U	0.000522 U	0.000357 U	0.000839 U	0.000332 U	0.000335 U	0.000282 U	0.000317 U	0.000350 U							
	B-908-100	9/7/17	PES	ESC	85 (dup)	-27.58	-	-	-	0.000302 U	0.000485 U	0.000332 U	0.000780 U	0.000309 U	0.000312 U	0.000263 U	0.000295 U	0.000325 U							
	B-214-95	9/7/17	PES	ESC	95	-37.58	-	-	-	0.000296 U	0.000476 U	0.000326 U	0.000766 U	0.000303 U	0.000306 U	0.000258 U	0.000290 U	0.000319 U							
	B-214-105	9/7/17	PES	ESC	105	-47.58	-	-	-	0.000342 U	0.000549 U	0.000376 U	0.000883 U	0.000349 U	0.000353 U	0.000297 U	0.000334 U	0.000368 U							
	B-214-115	9/11/17	PES	ESC	115	-57.58	-	-	-	0.000329 U	0.000529 U	0.000362 U	0.000851 U	0.000337 U	0.000340 U	0.000287 U	0.000322 U	0.000355 U							
B-214-120	9/11/17	PES	ESC	120	-62.58	-	-	-	0.000319 U	0.000513 U	0.000351 U	0.000824 U	0.000326 U	0.000329 U	0.000278 U	0.000312 U	0.000344 U								
B-215	B-215-15	9/12/17	PES	ESC	15	38.95	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	0.000299 U	0.000303 U	0.000255 U	0.000286 U	0.000316 U							
	B-215-25	9/12/17	PES	ESC	25	28.95	-	-	-	0.000289 U	0.000464 U	0.000318 U	0.000747 U	0.000299 U	0.000299 U	0.000252 U	0.000283 U	0.000311 U							
	B-215-35	9/12/17	PES	ESC	35	18.95	-	-	-	0.000318 U	0.000512 U	0.000350 U	0.000823 U	0.000294 U	0.000297 U	0.000250 U	0.000281 U	0.000310 U							
	B-215-45	9/12/17	PES	ESC	45	8.95	-	-	-	0.000287 U	0.000462 U	0.000316 U	0.000743 U	0.000294 U	0.000297 U	0.000250 U	0.000281 U	0.000310 U							
	B-215-55	9/12/17	PES	ESC	55	-1.05	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000773 U	0.000306 U	0.000309 U	0.000260 U	0.000292 U	0.000322 U							
	B-215-65	9/12/17	PES	ESC	65	-11.05	-	-	-	0.00772 U	0.0124 U	0.00849 U	0.0199 U	11.1	1.02	1.55	0.00755 U	0.00833 U							
	B-215-75	9/12/17	PES	ESC	75	-21.05	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	0.000304 U	0.000308 U	0.000259 U	0.000291 U	0.000321 U							
	B-215-85	9/13/17	PES	ESC	85	-31.05	-	-	-	0.000325 U	0.000523 U	0.000358 U	0.000841 U	0.000333 U	0.000336 U	0.000283 U	0.000318 U	0.000351 U							
	B-909-115	9/13/17	PES	ESC	85 (dup)	-31.05	-	-	-	0.000303 U	0.000486 U	0.000333 U	0.000782 U	0.000309 U	0.000313 U	0.000263 U	0.000296 U	0.000326 U							
B-215-95	9/13/17	PES	ESC	95	-41.05	-	-	-	0.000323 U	0.000519 U	0.000355 U	0.000835 U	0.000330 U	0.000334 U	0.000281 U	0.000316 U	0.000348 U								
BB-5	S-6	3/9/97	B&V	Unknown	15-17	34.00	22 U	54 U	108 U	ND	ND	ND	ND	-	-	-	-	-							
	S-10	3/9/97	B&V	Unknown	25-27	24.00	22 U	56 U	112 U	-	-	-	-	-	-	-	-	-							
BB-7	S-4	4/6/97	B&V	Unknown	10-12	17.00	26 U	66 U	132 U	-	-	-	-	-	-	-	-	-							
BB-8	S-8	6/6/97	B&V	Unknown	20-22	23.60	20 U	50 U	100 U	ND	ND	ND	ND	ND	ND	ND	ND	ND							
BB-10	S-6	8/29/97	B&V	Unknown	15-17	42.00	27 U	54 U	109 U	-	-	-	-	-	-	-	-	-							
BB-12	S-3	3/18/98	B&V	Unknown	15-16.5	18.80	29 U	58 U	120 U	ND	ND	ND	ND	ND	ND	ND	ND	ND							
	S-14	3/18/98	B&V	Unknown	45-46.5	-11.20	29 U	58 U	120 U	ND	ND	ND	ND	ND	ND	ND	ND	ND							
BB-13	S-10	3/19/98	B&V	Unknown	25-27.5	1.90	34 U	68 U	140 U	ND	ND	ND	ND	ND	ND	ND	ND	ND							
	S-16	3/19/98	B&V	Unknown	40-41.5	-13.10	30 U	61 U	120 U	ND	ND	ND	ND	ND	ND	ND	ND	ND							
BB-14	S-2	3/3/98	B&V	Unknown	5-6.5	21.30	32 U	64 U	130 U	-	-	-	-	-	-	-	-	-							
	S-5	3/3/98	B&V	Unknown	12.5-14	21.30	31 U	62 U	120 U	-	-	-	-	-	-	-	-	-							
	S-9	3/3/98	B&V	Unknown	22.5-24	21.30	31 U	62 U	120 U	-	-	-	-	-	-	-	-	-							
	S-12	3/3/98	B&V	Unknown	30-31.5	21.30	27 U	54 U	120 U	-	-	-	-	-	-	-	-	-							
CHB-07	CHB-07-12.5-13.5	4/14/05	CH2M	ARI	12.5-13.5	16.50	7.2 U	6.5 U	13 U	0.0015	0.0011 U	0.0011 U	0.0022 U	0.0011 U	0.0011 U	1.1	0.0083	0.027							
	CHB-07-5.0-7.0	4/14/08	CH2M	ARI	5-7	23.50	5 U	5.9 U	12 U	-	-	-	-	-	-	-	-	-							
CHB-08	CHB-08-15.0-16.0	4/15/08	CH2M	ARI	15-16	14.06	5.6 U	5.9 U	12 U	0.0008 U	0.0008 U	0.0008 U	0.0016 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U	0.0008 U							
CHB-09	CHB-09-20.0-21.5	4/16/08	CH2M	ARI	20-21.5	15.43	6.2 U	11	23	-	-	-	-	-	-	-	-	-							
	CHB-09-25.0-26.5	4/16/08	CH2M	ARI	25-26.5	10.43	6.1 U	36	130	0.0012 U	0.0012 U	0.0012 U	0.0024 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U							
GEI-MW-1	MW-1-1-2.5	8/22/14	GEI	Fremont	1	29.50	4.52 U	23.4 U	58.4 U	0.0181 U	0.0181 U	0.0271 U	18.1 U	0.0181 U	0.0181 U	0.0181 U	-	0.0181 U							
GEI-MW-2	MW-2-2-5.0	8/23/14	GEI	Fremont	5	26.60	9.29	24.5 U	61.2 U	0.0391 U	0.0391 U	0.0587 U	39.1 U	0.0391 U	0.0391 U	0.0391 U	-	0.0391 U							
	MW-2-4-10.0	8/23/14	GEI	Fremont	10	21.60	-	-	-	-	-	-	-	-	-	-	-	-							
GEI-MW-2	MW-2-8-20.0	8/23/14	GEI	Fremont	20	11.60	-	-	-	-	-	-	-	-	-	-	-	-							
GEI-MW-3	MW-3-4-10.0	8/23/14	GEI	Fremont	10	20.75	14.7 U	21.5 U	93.4 U	0.0258 U	0.0258 U	0.0388 U	25.8 U	0.0258 U	0.0258 U	0.0258 U	-	0.0258 U							
	MW-3-10-50.0	8/23/14	GEI	Fremont	50	-19.25	-	-	-	0.0166 U	0.0166 U	0.0249 U	16.6 U	0.0166 U	0.0166 U	0.0166 U	-	0.0166 U							
GEI-4	GEI-4-2-5.0	8/23/14	GEI	Fremont	5	26.00	5.34 U	22.3 U	55.8 U	0.0214 U	0.0214 U	0.0321 U	21.4 U	0.0214 U	0.0214 U	0.0214 U	-	0.0214 U							
	GEI-4-5-12.5	8/23/14	GEI	Fremont	12.5	18.50	6.08 U	23.7 U	59.3 U	0.0243 U	0.0243 U	0.0365 U	24.3 U	0.0243 U	0.0243 U	0.0243 U	-	0.0243 U							
MW-1 (SCLB-3)	RS3-2.5	3/15/93	EPJ	OnSite	2.5	37.50	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-							
	RS3-7.5	3/15/93	EPJ	OnSite	7.5	32.50	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-							
	RS3-17.5	3/15/93	EPJ	OnSite	17.5	22.50	210	-	-	10	7.3	3.7	15.8	-	-	-	-	-							
	RS3-22.5/RS3-27.5 (Comp)	3/15/93	EPJ	OnSite	22.5-27.5	-	42	-	-	3.9	0.8	0.76	2.49	-	-	-	-	-							
	RS3-32.5	3/15/93	EPJ	OnSite	32.5	7.50	5 U	-	-	0.15	0.050 U	0.050 U	1.00 U	-	-	-	-	-							
RS3-37.5	3/15/93	EPJ	OnSite	37.5	2.50	5 U	-	-	0.050 U	0.050 U	0.050 U	1.00 U	-	-	-	-	-								

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																							
							GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC	
							30	U	2,000	U	2,000	0.030	U	0.273	U	0.343	U	0.831	U	0.025	U	0.030	U	0.050	U	0.050	U	0.050	U	
MW-2 (SCLB-4)	RS4-2.5	3/15/93	EPJ	OnSite	2.5	37.50	20	U	50	U	100	U	-	-	-	-	-	-	-	-	-	-	-	-						
	RS4-7.5	3/15/93	EPJ	OnSite	7.5	32.50	20	U	50	U	100	U	-	-	-	-	-	-	-	-	-	-	-	-						
	RS4-12.5/RS4-17.5	3/15/93	EPJ	OnSite	12.5-17.5	-	5	U	-	-	-	-	0.05	U	0.05	U	0.05	U	0.05	U	-	-	-	-	-					
	RS4-22.5/RS4-27.5 (Comp)	3/15/93	EPJ	OnSite	22.5-27.5	-	5	U	-	-	-	-	0.05	U	0.05	U	0.05	U	<b>0.096</b>	J	-	-	-	-	-					
	RS4-37.5	3/15/93	EPJ	OnSite	37.5	2.50	<b>6.6</b>	J	-	-	-	-	0.05	U	0.05	U	0.05	U	0.05	U	-	-	-	-	-					
MW-3 (SCLB-5)	RS5-2.5/RS5-7.5 (Comp)	3/16/93	EPJ	OnSite	2.5-7.5	-	20	U	50	U	<b>400</b>	-	-	-	-	-	-	-	-	-	-	-	-	-						
	RS5-12.5/RS5-17.5 (Comp)	3/16/93	EPJ	OnSite	12.5-17.5	-	<b>46</b>	-	-	-	-	<b>0.88</b>	-	<b>0.28</b>	-	<b>0.97</b>	-	<b>1.37</b>	-	-	-	-	-	-						
	RS5-17.5	3/16/93	EPJ	OnSite	17.5	21.50	-	-	<b>430</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	RS5-22.5	3/16/93	EPJ	OnSite	22.5	16.50	<b>17</b>	J	-	-	-	<b>0.2</b>	-	<b>0.099</b>	J	<b>0.33</b>	-	<b>0.446</b>	-	-	-	-	-	-						
	RS5-32.5	3/16/93	EPJ	OnSite	32.5	6.50	<b>7.2</b>	J	-	-	25	U	<b>0.056</b>	J	0.05	U	<b>0.061</b>	-	<b>0.15</b>	-	-	-	-	-						
	RS5-37.5	3/16/93	EPJ	OnSite	37.5	1.50	5	U	-	-	-	0.050	U	0.050	U	0.050	U	1.00	U	-	-	-	-	-						
MW-4 (SCLB-6)	RS6-2.5	3/17/93	EPJ	OnSite	2.5	37.50	20	U	50	U	<b>770</b>	-	-	-	-	-	-	-	-	-	-	-	-	-						
	RS6-7.5	3/17/93	EPJ	OnSite	7.5	32.50	20	U	50	U	<b>770</b>	-	-	-	-	-	-	-	-	-	-	-	-	-						
	RS6-12.5	3/17/93	EPJ	OnSite	12.5	27.50	20	U	50	U	<b>190</b>	-	-	-	-	-	-	-	-	-	-	-	-	-						
	RS6-17.5/RS6-22.5 (Comp)	3/17/93	EPJ	OnSite	17.5-22.5	-	5.0	U	-	-	-	0.050	U	0.050	U	0.050	U	<b>0.092</b>	J	-	-	-	-	-						
	RS6-27.5	3/17/93	EPJ	OnSite	27.5	12.50	5.0	U	-	-	-	0.050	U	0.050	U	0.050	U	1.00	U	-	-	-	-	-						
MW-5 (SCLB-7)	RS7-2.5	3/17/93	EPJ	OnSite	2.5	37.50	20	U	50	U	100	U	-	-	-	-	-	-	-	-	-	-	-	-						
	RS7-7.5	3/17/93	EPJ	OnSite	7.5	32.50	20	U	50	U	100	U	-	-	-	-	-	-	-	-	-	-	-	-						
	RS7-12.5	3/17/93	EPJ	OnSite	12.5	27.50	20	U	50	U	100	U	-	-	-	-	-	-	-	-	-	-	-	-						
	RS7-17.5	3/17/93	EPJ	OnSite	17.5	22.50	20	U	50	U	100	U	-	-	-	-	-	-	-	-	-	-	-	-						
	RS7-22.5	3/17/93	EPJ	OnSite	22.5	17.50	20	U	50	U	100	U	-	-	-	-	-	-	-	-	-	-	-	-						
MW-6	MW6-25	10/11/93	Retec	ARI	25	13.20	<b>19</b>	-	-	-	<b>3.5</b>	-	<b>0.23</b>	-	<b>0.44</b>	-	<b>0.93</b>	-	-	-	-	-	-	-						
MW-7	MW7-16.5	10/11/93	Retec	ARI	16.5	18.60	<b>4,100</b>	-	-	-	<b>7.1</b>	-	<b>160</b>	-	<b>54</b>	-	<b>300</b>	-	-	-	-	-	-	-						
	MW7-18.5	10/11/93	Retec	ARI	18.5	16.60	<b>840</b>	-	-	-	<b>2.2</b>	-	<b>30</b>	-	<b>12</b>	-	<b>62</b>	-	-	-	-	-	-	-						
MW-8	MW8-20	10/18/93	Retec	AAL	20	13.20	5	U	-	-	0.059	U	0.059	U	0.059	U	0.12	U	-	-	-	-	-	-						
MW-9	MW9-17.5	10/18/93	Retec	AAL	17.5	23.60	5	U	-	-	0.068	U	0.068	U	0.068	U	0.14	U	-	-	-	-	-	-						
MW-10	MW10-17.5	10/19/93	Retec	AAL	17.5	20.50	5	U	-	-	0.068	U	0.068	U	0.068	U	0.14	U	-	-	-	-	-	-						
MW102 (B102)	B102-20	7/17/12	SES	F&BI	20	29.19	-	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U						
	B102-30	7/17/12	SES	F&BI	30	19.19	-	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U						
	B102-38	7/17/12	SES	F&BI	38	11.19	-	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U						
	B102-40	7/17/12	SES	F&BI	40	9.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	B102-49	7/17/12	SES	F&BI	49	0.19	-	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U						
	B102-60	7/17/12	SES	F&BI	60	-10.81	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B102-70	7/18/12	SES	F&BI	70	-20.81	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B102-80	7/19/12	SES	F&BI	80	-30.81	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B102-90	7/19/12	SES	F&BI	90	-40.81	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B102-100	7/20/12	SES	F&BI	100	-50.81	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B102-110	7/20/12	SES	F&BI	110	-60.81	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
B102-120	7/23/12	SES	F&BI	120	-70.81	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05							
MW103 (B103)	B103-10	7/25/12	SES	F&BI	10	25.92	-	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U						
	B103-18	7/25/12	SES	F&BI	18	17.92	-	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U						
	B103-30	7/25/12	SES	F&BI	30	5.92	-	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U						
	B103-40	7/25/12	SES	F&BI	40	-4.08	-	-	-	-	-	-	-	-	-	-	<b>4.6</b>	-	<b>0.77</b>	-	<b>0.12</b>	-	0.05	U	0.05					
	B103-45	7/25/12	SES	F&BI	45	-9.08	-	-	-	-	-	-	-	-	-	<b>5.3</b>	-	<b>0.48</b>	-	<b>0.24</b>	-	0.05	U	0.05						
	B103-55	7/25/12	SES	F&BI	55	-19.08	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	<b>0.18</b>	-	0.05	U	0.05						
	B103-62.5	7/26/12	SES	F&BI	62.5	-26.58	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B103-75	7/26/12	SES	F&BI	75	-39.08	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B103-83	7/26/12	SES	F&BI	83	-47.08	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	<b>0.12</b>	-	0.05	U	0.05						
	B103-95	7/26/12	SES	F&BI	95	-59.08	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B103-105	7/27/12	SES	F&BI	105	-69.08	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						
	B103-113	7/27/12	SES	F&BI	113	-77.08	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05						

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																	
							Screening Levels							Analytical Results (milligrams per kilogram)										
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC						
30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050													
MW104 (B104)	B104-10	7/30/12	SES	F&BI	10	32.68	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B104-20	7/30/12	SES	F&BI	20	22.68	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B104-30	7/30/12	SES	F&BI	30	12.68	-	-	-	-	-	-	<b>1.8</b>		<b>0.086</b>		<b>0.14</b>		0.05	U	0.05	U		
	B104-35	7/30/12	SES	F&BI	35	7.68	-	-	-	-	-	-	<b>7.1</b>		<b>0.23</b>		<b>0.099</b>		0.05	U	0.05	U		
	B104-50	7/30/12	SES	F&BI	50	-7.32	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B104-60	7/31/12	SES	F&BI	60	-17.32	-	-	-	-	-	-	<b>2.1</b>		<b>0.21</b>		<b>0.12</b>		0.05	U	0.05	U		
	B104-69	7/31/12	SES	F&BI	69	-26.32	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B104-80	7/31/12	SES	F&BI	80	-37.32	-	-	-	-	-	-	<b>0.12</b>		0.03	U	0.05	U	0.05	U	0.05	U		
	B104-90	8/1/12	SES	F&BI	90	-47.32	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B104-100	8/1/12	SES	F&BI	100	-57.32	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B104-110	8/1/12	SES	F&BI	110	-67.32	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B104-120	8/1/12	SES	F&BI	120	-77.32	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
B104-130	8/1/12	SES	F&BI	130	-87.32	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U			
MW105 (B105)	B105-10	8/6/12	SES	F&BI	10	34.17	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B105-20	8/6/12	SES	F&BI	20	24.17	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B105-30	8/6/12	SES	F&BI	30	14.17	-	-	-	-	-	-	<b>1.3</b>		<b>0.16</b>		<b>0.086</b>		0.05	U	0.05	U		
	B105-40	8/8/12	SES	F&BI	40	4.17	-	-	-	-	-	-	0.025	U	0.03	U	<b>0.22</b>		0.05	U	0.05	U		
	B105-50	8/8/12	SES	F&BI	50	-5.83	-	-	-	-	-	-	<b>0.18</b>		<b>0.040</b>		0.05	U	0.05	U	0.05	U		
	B105-60	8/9/12	SES	F&BI	60	-15.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B105-70	8/9/12	SES	F&BI	70	-25.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B105-80	8/9/12	SES	F&BI	80	-35.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B105-90	8/10/12	SES	F&BI	90	-45.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B105-100	8/10/12	SES	F&BI	100	-55.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B105-110	8/10/12	SES	F&BI	110	-65.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B105-120	8/10/12	SES	F&BI	120	-75.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
B105-130	8/10/12	SES	F&BI	130	-85.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U			
B105-138	8/10/12	SES	F&BI	138	-93.83	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U			
MW106 (B106)	B106-10	8/14/12	SES	F&BI	10	41.99	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-20	8/14/12	SES	F&BI	20	31.99	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-30	8/14/12	SES	F&BI	30	21.99	-	-	-	-	-	-	<b>0.038</b>		0.03	U	0.05	U	0.05	U	0.05	U		
	B106-40	8/14/12	SES	F&BI	40	11.99	-	-	-	-	-	-	<b>3.1</b>		<b>0.15</b>		0.05	U	0.05	U	0.05	U		
	B106-50	8/14/12	SES	F&BI	50	1.99	-	-	-	-	-	-	<b>0.73</b>		<b>0.17</b>		<b>0.11</b>		0.05	U	0.05	U		
	B106-60	8/14/12	SES	F&BI	60	-8.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-70	8/15/12	SES	F&BI	70	-18.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-80	8/15/12	SES	F&BI	80	-28.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-90	8/15/12	SES	F&BI	90	-38.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-100	8/15/12	SES	F&BI	100	-48.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-110	8/15/12	SES	F&BI	110	-58.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-120	8/15/12	SES	F&BI	120	-68.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-130	8/15/12	SES	F&BI	130	-78.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
	B106-140	8/15/12	SES	F&BI	140	-88.01	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
MW107 (B107)	B107-05	3/12/12	SES	F&BI	5	38.82	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U
	B107-15	3/12/12	SES	F&BI	15	28.82	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U
	B107-25	3/12/12	SES	F&BI	25	18.82	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	<b>0.60</b>		<b>0.063</b>		<b>0.060</b>	
	B107-35	3/12/12	SES	F&BI	35	8.82	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	<b>19</b>		<b>0.59</b>		<b>0.37</b>	
	B107-45	3/12/12	SES	F&BI	45	-1.18	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	<b>0.028</b>		0.03	U	0.05	U
MW108 (B108)	B108-15	12/14/12	SES	F&BI	15	17.78	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U	0.05	U
	B108-25	12/14/12	SES	F&BI	25	7.78	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U	0.05	U
	B108-35	12/14/12	SES	F&BI	35	-2.22	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U	0.05	U
	B108-45	12/14/12	SES	F&BI	45	-12.22	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U	0.05	U
	B108-50	12/14/12	SES	F&BI	50	-17.22	-	-	-	-	-	-	<b>0.037</b>		0.03	U	0.05	U	0.05	U	0.05	U	0.05	U

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**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																	
							Screening Levels						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	
MW109 (B109)	B109-05	4/12/12	SES	F&BI	5	29.97	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B109-15	4/12/12	SES	F&BI	15	19.97	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B109-25	4/12/12	SES	F&BI	25	9.97	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B109-35	4/12/12	SES	F&BI	35	-0.03	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B109-45	4/12/12	SES	F&BI	45	-10.03	-	-	-	-	-	-	-	-	<b>1.6</b>		<b>0.94</b>		<b>0.15</b>		0.05	U	0.05	U
MW110 (B110)	B110-15	4/12/12	SES	F&BI	15	24.67	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B110-25	4/12/12	SES	F&BI	25	14.67	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B110-35	4/12/12	SES	F&BI	35	4.67	-	-	-	-	-	-	-	-	<b>3.4</b>		<b>0.21</b>		<b>0.31</b>		0.05	U	0.05	U
	B110-45	4/12/12	SES	F&BI	45	-5.33	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
MW111 (B111)	B111-10	5/12/12	SES	F&BI	10	26.48	-	-	-	-	-	-	-	-	0.05	U	0.06	U	0.1	U	0.1	U	0.1	U
	B111-20	5/12/12	SES	F&BI	20	16.48	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B111-30	5/12/12	SES	F&BI	30	6.48	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B111-38	5/12/12	SES	F&BI	38	-1.52	-	-	-	-	-	-	-	-	<b>0.078</b>		<b>0.40</b>		<b>0.28</b>		0.05	U	0.05	U
	B111-50	5/12/12	SES	F&BI	50	-13.52	-	-	-	-	-	-	-	-	<b>1.4</b>		<b>0.56</b>		<b>0.11</b>		0.05	U	0.05	U
	B111-60	6/12/12	SES	F&BI	60	-23.52	-	-	-	-	-	-	-	-	<b>0.085</b>		0.03	U	0.05	U	0.05	U	0.05	U
	B111-70	6/12/12	SES	F&BI	70	-33.52	-	-	-	-	-	-	-	-	<b>0.033</b>		0.03	U	0.05	U	0.05	U	0.05	U
MW112 (B112)	B112-10	11/12/12	SES	F&BI	10	47.49	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B112-20	11/12/12	SES	F&BI	20	37.49	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B112-30	11/12/12	SES	F&BI	30	27.49	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B112-40	11/12/12	SES	F&BI	40	17.49	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B112-50	11/12/12	SES	F&BI	50	7.49	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B112-60	11/12/12	SES	F&BI	60	-2.51	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B112-75	11/12/12	SES	F&BI	75	-17.51	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B112-85	12/12/12	SES	F&BI	85	-27.51	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
MW113 (B113)	B113-10	12/18/12	SES	F&BI	10	22.94	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B113-20	12/18/12	SES	F&BI	20	12.94	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B113-30	12/18/12	SES	F&BI	30	2.94	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B113-40	12/18/12	SES	F&BI	40	-7.06	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B113-50	12/18/12	SES	F&BI	50	-17.06	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
MW114 (B114)	B114-15	10/12/12	SES	F&BI	15	30.84	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B114-25	10/12/12	SES	F&BI	25	20.84	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B114-35	10/12/12	SES	F&BI	35	10.84	-	-	-	-	-	-	-	-	<b>8.8</b>		<b>0.45</b>		<b>0.11</b>		0.05	U	0.05	U
	B114-40	10/12/12	SES	F&BI	40	5.84	-	-	-	-	-	-	-	-	<b>0.59</b>		<b>0.071</b>		0.05	U	0.05	U	0.05	U
	B114-45	10/12/12	SES	F&BI	45	0.84	-	-	-	-	-	-	-	-	<b>0.25</b>		0.03	U	0.05	U	0.05	U	0.05	U
MW115 (B115)	B115-10	12/13/12	SES	F&BI	10	24.14	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B115-15	12/13/12	SES	F&BI	15	19.14	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B115-25	12/13/12	SES	F&BI	25	9.14	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B115-35	12/13/12	SES	F&BI	35	-0.86	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B115-45	12/13/12	SES	F&BI	45	-10.86	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
MW116 (B116)	B116-15	7/12/12	SES	F&BI	15	16.36	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B116-25	7/12/12	SES	F&BI	25	6.36	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B116-35	7/12/12	SES	F&BI	35	-3.64	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B116-45	7/12/12	SES	F&BI	45	-13.64	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
MW117 (B117)	B117-10	2/4/13	SES	F&BI	10	46.90	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B117-20	2/4/13	SES	F&BI	20	36.90	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B117-30	2/4/13	SES	F&BI	30	26.90	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B117-40	2/4/13	SES	F&BI	40	16.90	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
	B117-50	2/4/13	SES	F&BI	50	6.90	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																							
							GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC	
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	0.050											
MW118 (B118)	B118-10	3/21/13	SES	F&BI	10	42.91	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
	B118-20	3/21/13	SES	F&BI	20	32.91	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
	B118-30	3/21/13	SES	F&BI	30	22.91	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
	B118-40	3/21/13	SES	F&BI	40	12.91	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
	B118-50	3/21/13	SES	F&BI	50	2.91	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
MW119 (B119)	B119-10	3/21/13	SES	F&BI	10	27.35	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
	B119-20	3/21/13	SES	F&BI	20	17.35	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
	B119-30	3/21/13	SES	F&BI	30	7.35	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
	B119-40	3/21/13	SES	F&BI	40	-2.65	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U					
MW120 (B120)	B120-20	12/16/13	SES	F&BI	20	20.00	2	U	-	-	0.3	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B120-30	12/16/13	SES	F&BI	30	10.00	2	U	-	-	0.3	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B120-45	12/16/13	SES	F&BI	45	-5.00	2	U	-	-	0.3	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
MW121 (B121)	B121-15	12/16/13	SES	F&BI	15	26.72	2	U	-	-	0.3	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B121-25	12/16/13	SES	F&BI	25	16.72	2	U	-	-	0.3	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
MW122 (B122)	B122-15	12/17/13	SES	F&BI	15	15.03	-	-	-	<b>0.053</b>	0.05	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B122-25	12/17/13	SES	F&BI	25	5.03	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B122-40	12/17/13	SES	F&BI	40	-9.97	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	<b>0.22</b>	0.05	U	0.05	U				
	B122-45	12/17/13	SES	F&BI	45	-14.97	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B122-50	12/17/13	SES	F&BI	50	-19.97	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B122-60	12/17/13	SES	F&BI	60	-29.97	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B122-70	12/17/13	SES	F&BI	70	-39.97	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B122-80	12/17/13	SES	F&BI	80	-49.97	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B122-100	12/17/13	SES	F&BI	100	-69.97	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
MW123 (B123)	B123-20	12/18/13	SES	F&BI	20	7.51	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
MW124 (B124)	B124-10	12/19/13	SES	F&BI	10	46.24	2	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	B124-20	12/19/13	SES	F&BI	20	36.24	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B124-30	12/19/13	SES	F&BI	30	26.24	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B124-40	12/19/13	SES	F&BI	40	16.24	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B124-50	12/19/13	SES	F&BI	50	6.24	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B124-60	12/19/13	SES	F&BI	60	-3.76	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B124-70	12/19/13	SES	F&BI	70	-13.76	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B124-80	12/19/13	SES	F&BI	80	-23.76	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B124-90	12/19/13	SES	F&BI	90	-33.76	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B124-100	12/19/13	SES	F&BI	100	-43.76	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
B124-110	12/19/13	SES	F&BI	110	-53.76	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U						
B124-120	12/19/13	SES	F&BI	120	-63.76	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U						
MW125 (B125)	B125-15	12/20/13	SES	F&BI	15	28.55	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B125-20	12/20/13	SES	F&BI	20	23.55	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B125-25	12/20/13	SES	F&BI	25	18.55	2	U	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U				
	B125-30	12/20/13	SES	F&BI	30	13.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
MW126 (B126)	B126-20	12/30/13	SES	F&BI	20	10.94	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B126-35	12/30/13	SES	F&BI	35	-4.06	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B126-45	12/30/13	SES	F&BI	45	-14.06	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B126-55	12/30/13	SES	F&BI	55	-24.06	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B126-60	12/31/13	SES	F&BI	60	-29.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	B126-65	1/1/14	SES	F&BI	65	-34.06	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B126-75	1/2/14	SES	F&BI	75	-44.06	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
	B126-80	1/3/14	SES	F&BI	80	-49.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	B126-85	1/4/14	SES	F&BI	85	-54.06	-	-	-	0.03	U	0.05	U	0.05	U	0.15	U	0.025	U	0.03	U	0.05	U	0.05	U					
B126-95	1/5/14	SES	F&BI	95	-64.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)													
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050		
MW127 (B127)	B127-15	12/31/13	SES	F&BI	15	24.04	-	-	-	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	
	B127-25	12/31/13	SES	F&BI	25	14.04	-	-	-	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	
	B127-40	12/31/13	SES	F&BI	40	-0.96	-	-	-	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	
	B127-45	12/31/13	SES	F&BI	45	-5.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	B127-50	12/31/13	SES	F&BI	50	-10.96	-	-	-	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	
MW128 (B128)	B128-25	1/9/14	SES	F&BI	25	2.90	-	-	-	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	
	B128-45	1/9/14	SES	F&BI	45	-17.10	-	-	-	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	
	B128-65	1/9/14	SES	F&BI	65	-37.10	-	-	-	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	
MW-138	MW-138-15	9/12/17	PES	ESC	15	42.48	-	-	-	0.000321 U	0.000516 U	0.000353 U	0.000830 U	0.000328 U	0.000332 U	0.000279 U	0.000314 U	0.000346 U		
	MW-138-25	9/12/17	PES	ESC	25	32.48	-	-	-	0.000311 U	0.000500 U	0.000342 U	0.000804 U	0.000318 U	0.000321 U	0.000271 U	0.000304 U	0.000335 U		
	MW-138-35	9/12/17	PES	ESC	35	22.48	-	-	-	0.000288 U	0.000464 U	0.000317 U	0.000746 U	0.000295 U	0.000298 U	0.000251 U	0.000282 U	0.000311 U		
	MW-138-45	9/12/17	PES	ESC	45	12.48	-	-	-	0.000285 U	0.000459 U	0.000314 U	0.000738 U	0.000292 U	0.000295 U	0.000248 U	0.000279 U	0.000308 U		
	MW-138-56	9/12/17	PES	ESC	56	1.48	-	-	-	0.000304 U	0.000488 U	0.000334 U	0.000785 U	0.000310 U	0.000314 U	0.000264 U	0.000297 U	0.000327 U		
	MW-138-65	9/13/17	PES	ESC	65	-7.52	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000755 U	0.000299 U	0.000302 U	0.000254 U	0.000286 R	0.000315 R		
	B-910-90	9/13/17	PES	ESC	65 (dup)	-7.52	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	0.000320 U	0.000323 U	0.000272 U	0.000306 R	0.000337 R		
	MW-138-75	9/13/17	PES	ESC	75	-17.52	-	-	-	0.000297 U	0.000478 U	0.000327 U	0.000769 U	0.000304 U	0.000307 U	0.000259 U	0.000291 U	0.000320 U		
	MW-138-85	9/13/17	PES	ESC	85	-27.52	-	-	-	0.000325 U	0.000522 U	0.000357 U	0.000839 U	0.000332 U	0.000335 U	0.000283 U	0.000317 U	0.000350 U		
	MW-138-95	9/13/17	PES	ESC	95	-37.52	-	-	-	0.000295 U	0.000473 U	0.000324 U	0.000761 U	0.000301 U	0.000304 U	0.000256 U	0.000288 U	0.000317 U		
	MW-138-105	9/13/17	PES	ESC	105	-47.52	-	-	-	0.000336 U	0.000540 U	0.000369 U	0.000868 U	0.000343 U	0.000347 U	0.000292 U	0.000328 U	0.000362 U		
MW-138-115	9/14/17	PES	ESC	115	-57.52	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	0.000320 U	0.000323 U	0.000272 U	0.000306 U	0.000337 U			
MW-140	MW-140-15	8/30/17	PES	ESC	15	35.57	-	-	-	0.000308 U	0.000495 U	0.000339 U	0.000796 U	0.000315 U	0.000318 U	0.000268 U	0.000301 U	0.000332 U		
	MW-140-25	8/30/17	PES	ESC	25	25.57	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	<b>0.147</b>	<b>0.0107</b>	<b>0.00199</b>	0.000286 U	0.000316 U		
	MW-140-35	8/30/17	PES	ESC	35	15.57	-	-	-	0.00786 U	0.0126 U	0.00865 U	0.0203 U	<b>15.1</b>	<b>0.629</b>	<b>0.387</b>	0.00769 U	<b>0.0107 J</b>		
	MW-140-45	8/30/17	PES	ESC	45	5.57	-	-	-	0.000288 U	0.000463 U	0.000317 U	0.000745 U	<b>4.27</b>	<b>0.0793</b>	<b>0.0431</b>	0.000282 U	<b>0.00160</b>		
	MW-140-55	8/30/17	PES	ESC	55	-4.43	-	-	-	<b>0.000379 J</b>	<b>0.000498 J</b>	0.000326 U	0.000766 U	<b>1.56</b>	<b>0.0496</b>	<b>0.130</b>	<b>0.000500 J</b>	<b>0.00990</b>		
	MW-140-65	8/30/17	PES	ESC	65	-14.43	-	-	-	0.000289 U	0.000465 U	0.000318 U	0.000747 U	0.00746 U	0.000299 U	0.000252 U	0.000283 U	0.000312 U		
	MW-140-75	8/30/17	PES	ESC	75	-24.43	-	-	-	0.00728 U	0.0116 U	0.00800 U	0.0188 U	0.00744 U	0.00753 U	0.00634 U	0.00712 U	0.00785 U		
	MW-140-90	8/30/17	PES	ESC	90	-39.43	-	-	-	0.000318 U	0.000511 U	0.000349 U	0.000821 U	0.000325 U	0.000328 U	0.000276 U	0.000311 U	0.000342 U		
	MW-140-110	8/31/17	PES	ESC	110	-59.43	-	-	-	0.000313 U	0.000503 U	0.000344 U	0.000808 U	0.000320 U	0.000323 U	0.000272 U	0.000306 U	0.000337 U		
	MW-140-130	8/31/17	PES	ESC	130	-79.43	-	-	-	0.000305 U	0.000491 U	0.000336 U	0.000789 U	0.000312 U	0.000315 U	0.000266 U	0.000298 U	0.000329 U		
	MW-140-140	8/31/17	PES	ESC	140	-89.43	-	-	-	0.000762 U	0.0122 U	0.00838 U	0.0197 U	0.00779 U	0.00788 U	0.00664 U	0.00745 U	0.00822 U		
MW-142	MW-142-5	4/12/18	PES	ESC	5	37.12	-	-	-	<b>0.000392 J</b>	0.000522 U	0.000357 U	0.000840 U	0.000332 U	0.000336 U	0.000283 U	0.000318 U	0.000350 U		
MW-143	MW-143-10	4/11/18	PES	ESC	10	32.04	-	-	-	<b>0.00459</b>	0.000602 U	0.000412 U	0.000968 U	<b>0.000499 J</b>	0.000387 U	0.000326 U	0.000366 U	0.000403 U		
	MW-143-20	4/11/18	PES	ESC	20	22.04	-	-	-	0.000314 U	0.000504 U	0.000345 U	0.000811 U	0.000321 U	0.000324 U	0.000273 U	0.000307 U	0.000338 U		
	MW-143-30	4/11/18	PES	ESC	30	12.04	-	-	-	0.000307 U	0.000494 U	0.000338 U	0.000795 U	0.000314 U	0.000318 U	<b>0.000547 J</b>	0.000301 U	<b>0.000928 J</b>		
	MW-143-40	4/11/18	PES	ESC	40	2.04	-	-	-	0.000322 U	0.000518 U	0.000354 U	0.000833 U	0.000329 U	0.000333 U	<b>0.00203</b>	0.000315 U	<b>0.000521 J</b>		
	MW-143-50	4/11/18	PES	ESC	50	-7.96	-	-	-	0.000309 U	0.000497 U	0.000340 U	0.000799 U	<b>0.00589</b>	<b>0.00729</b>	<b>0.207</b>	<b>0.00117</b>	<b>0.0227</b>		
	MW-143-60	4/11/18	PES	ESC	60	-17.96	-	-	-	0.000300 U	0.000482 U	0.000330 U	0.000776 U	<b>0.00270</b>	<b>0.000443 J</b>	<b>0.00285</b>	<b>0.00136</b>	<b>0.656</b>		
	MW-143-70	4/11/18	PES	ESC	70	-27.96	-	-	-	0.000297 U	0.000477 U	0.000327 U	0.000768 U	<b>0.00164</b>	<b>0.00106 J</b>	<b>0.0182</b>	0.000290 U	<b>0.0137</b>		
	MW-143-80	4/11/18	PES	ESC	80	-37.96	-	-	-	0.000307 U	0.000493 U	0.000337 U	0.000793 U	0.000314 U	0.000317 U	<b>0.00361</b>	0.000300 U	<b>0.00320</b>		
	MW-902-20	4/11/18	PES	ESC	80 (dup)	-37.96	-	-	-	0.000302 U	0.000486 U	0.000332 U	0.000781 U	0.000309 U	0.000312 U	<b>0.00256</b>	0.000295 U	<b>0.00587</b>		
MW-145	MW-145-10	4/17/18	PES	ESC	10	33.46	-	-	-	0.000339 U	0.000545 U	0.000373 U	0.000877 U	0.000347 U	0.000351 U	0.000295 U	0.000332 U	0.000366 U		
	MW-145-20	4/17/18	PES	ESC	20	23.46	-	-	-	0.000315 U	0.000507 U	0.000347 U	0.000815 U	<b>0.000505 J</b>	<b>0.000332 J</b>	<b>0.00765</b>	0.000308 U	0.000340 U		
	MW-145-30	4/17/18	PES	ESC	30	13.46	-	-	-	0.000320 U	0.000515 U	0.000352 U	0.000828 U	<b>0.790</b>	<b>0.0668</b>	<b>0.100</b>	<b>0.00118 J</b>	0.000345 U		
	MW-145-40	4/17/18	PES	ESC	40	3.46	-	-	-	0.000301 U	0.000484 U	0.000331 U	0.000778 U	<b>0.00641</b>	<b>0.00474</b>	<b>0.0691</b>	0.000294 U	<b>0.0160</b>		
	MW-145-50	4/17/18	PES	ESC	50	-6.54	-	-	-	0.000296 U	0.000476 U	0.000325 U	<b>0.00329</b>	<b>0.00390</b>	<b>0.00180</b>	<b>0.00555</b>	0.000289 U	<b>0.00329</b>		
	MW-145-60	4/17/18	PES	ESC	60	-16.54	-	-	-	0.000298 U	0.000478 U	0.000327 U	0.000769 U	0.000304 U	0.000308 U	0.000259 U	0.000291 U	<b>0.00255</b>		
	MW-145-70	4/17/18	PES	ESC	70	-26.54	-	-	-	0.000327 U	0.000526 U	0.000360 U	0.000847 U	0.000335 U	0.000338 U	<b>0.000290 J</b>	0.000320 U	<b>0.000544 J</b>		
	MW-145-80	4/17/18	PES	ESC	80	-36.54	-	-	-	0.000310 U	0.000498 U	0.000341 U	0.000802 U	<b>0.000464 J</b>	0.000320 U	<b>0.000380 J</b>	0.000303 U	<b>0.000723 J</b>		
	MW-903-40	4/17/18	PES	ESC	80 (dup)	-36.54	-	-	-	0.000303 U	0.000487 U	0.000333 U	0.000783 U	<b>0.000450 J</b>	0.000313 U	<b>0.000384 J</b>	0.000296 U	<b>0.00180</b>		

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																		
							Screening Levels							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050							
MW-147	MW-147-10	4/2/18	PES	ESC	10	41.85	-	-	-	0.000566 J	0.000471 U	0.000323 U	0.000758 U	0.000697 J	0.000303 U	0.000255 U	0.000287 U	0.000316 U							
	MW-147-20	4/2/18	PES	ESC	20	31.85	-	-	-	0.000292 U	0.000469 U	0.000321 U	0.000754 U	0.000759 J	0.000302 U	0.000254 U	0.000285 U	0.000314 U							
	MW-147-30	4/2/18	PES	ESC	30	21.85	-	-	-	0.000301 U	0.000485 U	0.000332 U	0.000779 U	0.0238	0.00330	0.00239	0.000295 U	0.000325 U							
	MW-147-40	4/2/18	PES	ESC	40	11.85	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	0.0146	0.00118	0.00488	0.000291 U	0.0615							
	MW-147-50	4/2/18	PES	ESC	50	1.85	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000773 U	0.00175	0.00105 J	0.00432	0.000292 U	0.00322							
	MW-147-60	4/2/18	PES	ESC	60	-8.15	-	-	-	0.000290 U	0.000467 U	0.000319 U	0.000751 U	0.000607 J	0.000300 U	0.000696 J	0.000284 U	0.000313 U							
	MW-901-10	4/2/18	PES	ESC	60 (dup)	-8.15	-	-	-	0.000291 U	0.000467 U	0.000320 U	0.000752 U	0.000377 J	0.000300 U	0.000253 U	0.000284 U	0.000313 U							
	MW-147-70	4/2/18	PES	ESC	70	-18.15	-	-	-	0.000302 U	0.000486 U	0.000332 U	0.000781 U	0.000309 U	0.000312 U	0.000263 U	0.000295 U	0.000502 J							
	MW-147-80	4/2/18	PES	ESC	80	-28.15	-	-	-	0.000312 U	0.000502 U	0.000334 U	0.000808 U	0.000319 U	0.000323 U	0.000272 U	0.000305 U	0.000337 U							
MW-148	MW-148-11	4/9/18	PES	ESC	11	32.91	-	-	-	0.000728 J	0.000501 U	0.000343 U	0.000805 U	0.000318 U	0.000322 U	0.000271 U	0.000305 U	0.000336 U							
	MW-148-20	4/9/18	PES	ESC	20	23.91	-	-	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	0.00188	0.000303 U	0.000255 U	0.000286 U	0.000316 U							
	MW-148-30	4/9/18	PES	ESC	30	13.91	-	-	-	0.000303 U	0.000487 U	0.000334 U	0.000784 U	0.000310 U	0.000313 U	0.00364	0.000296 U	0.0144							
	MW-148-40	4/9/18	PES	ESC	40	3.91	-	-	-	0.000293 U	0.000471 U	0.000323 U	0.000758 U	0.000801 J	0.000551 J	0.00113	0.000287 U	0.000316 U							
	MW-148-50	4/9/18	PES	ESC	50	-6.09	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	0.000304 U	0.000308 U	0.000259 U	0.000291 U	0.000321 U							
	MW-148-60	4/9/18	PES	ESC	60	-16.09	-	-	-	0.000341 U	0.000548 U	0.000375 U	0.000881 U	0.000348 U	0.000352 U	0.000297 U	0.000333 U	0.000367 U							
	MW-148-70	4/9/18	PES	ESC	70	-26.09	-	-	-	0.000340 U	0.000547 U	0.000374 U	0.000880 U	0.000618 J	0.000352 U	0.000380 J	0.000333 U	0.000367 U							
	MW-148-80	4/9/18	PES	ESC	80	-36.09	-	-	-	0.000317 U	0.000510 U	0.000349 U	0.000820 U	0.000585 J	0.000328 U	0.000314 J	0.000310 U	0.000342 U							
MW-153	MW-153-10	3/27/18	PES	ESC	10	44.35	-	-	-	0.000306 U	0.000492 U	0.000337 U	0.000792 U	0.000313 U	0.000316 U	0.000266 U	0.000299 U	0.000330 U							
	MW-153-20	3/27/18	PES	ESC	20	34.35	-	-	-	0.000296 U	0.000475 U	0.000325 U	0.000764 U	0.000561 J	0.000305 U	0.000257 U	0.000289 U	0.000318 U							
	MW-153-30	3/27/18	PES	ESC	30	24.35	-	-	-	0.000290 U	0.000466 U	0.000319 U	0.000749 U	0.000296 U	0.000299 U	0.000252 U	0.000283 U	0.000312 U							
	MW-153-40	3/27/18	PES	ESC	40	14.35	-	-	-	0.000306 U	0.000492 U	0.000336 U	0.000791 U	0.000313 U	0.000486 J	0.00421	0.000299 U	0.000330 U							
	MW-153-50	3/27/18	PES	ESC	50	4.35	-	-	-	0.000299 U	0.000481 U	0.000329 U	0.000774 U	0.000306 U	0.000309 U	0.000261 U	0.000293 U	0.00767							
	MW-153-61	3/27/18	PES	ESC	61	-6.65	-	-	-	0.000307 U	0.000493 U	0.000338 U	0.000793 U	0.000314 U	0.000317 U	0.000267 U	0.000300 U	0.000344 J							
	MW-153-70	3/27/18	PES	ESC	70	-15.65	-	-	-	0.000301 U	0.000483 U	0.000331 U	0.000777 U	0.000307 U	0.000311 U	0.000262 U	0.000294 U	0.000902 J							
	MW-153-80	3/28/18	PES	ESC	80	-25.65	-	-	-	0.000298 U	0.000479 U	0.000328 U	0.000770 U	0.000305 U	0.000308 U	0.000308 U	0.000353 J	0.000291 U	0.00148						
	MW-153-90	3/28/18	PES	ESC	90	-35.65	-	-	-	0.000325 U	0.000523 U	0.000358 U	0.000841 U	0.000799 J	0.000336 U	0.000596 J	0.000318 U	0.00176							
	MW-153-110	3/28/18	PES	ESC	110	-55.65	-	-	-	0.000318 U	0.000511 U	0.000350 U	0.000821 U	0.00254	0.000328 U	0.000773 J	0.000311 U	0.00311							
	MW-153-130	3/29/18	PES	ESC	130	-75.65	-	-	-	0.000310 U	0.000499 U	0.000341 U	0.000802 U	0.000648 J	0.000321 U	0.000270 U	0.000303 U	0.000334 U							
MW-158	MW-158-20	4/5/18	PES	ESC	20	21.09	0.0384 U	-	-	0.000584 J	0.000492 U	0.000336 U	0.000791 U	0.000313 U	0.000316 U	0.000266 U	0.000299 U	0.000330 U							
	MW-158-30	4/5/18	PES	ESC	30	11.09	1.5 J+	-	-	0.0318 U	0.0512	0.0350 U	0.0823 U	15.1	3.57	3.00	0.0311 U	0.382							
MW-158A	MW-158A-40	4/5/18	PES	ESC	40	1.09	0.839	-	-	0.000424 J	0.000626 J	0.000366 U	0.000860 U	1.76	0.684	0.168	0.000547 J	0.00972							
	MW-158A-50	4/5/18	PES	ESC	50	-8.91	0.194	-	-	0.000312 U	0.000502 U	0.000343 U	0.000807 U	0.922	0.0628	0.0631	0.000423 J	0.00709 J							
	MW-158A-60	4/5/18	PES	ESC	60	-18.91	0.319	-	-	0.000311 U	0.000499 U	0.000342 U	0.000803 U	4.08	0.0528	0.111	0.000810 J	0.00703 J							
	MW-158A-70	4/5/18	PES	ESC	70	-28.91	0.129	-	-	0.000303 U	0.000487 U	0.000333 U	0.000783 U	0.00466	0.0431	0.946	0.000460 J	0.0164							
	MW-158A-80	4/6/18	PES	ESC	80	-38.91	0.0376 U	-	-	0.000299 U	0.000481 U	0.000329 U	0.000774 U	0.00242	0.000599 J	0.00335	0.000293 U	0.000339 J							
	MW-158A-90	4/6/18	PES	ESC	90	-48.91	0.0389 U	-	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	0.00622	0.00209	0.00789	0.000303 U	0.00160							
	MW-158A-100	4/6/18	PES	ESC	100	-58.91	0.0398 U	-	-	0.000317 U	0.000510 U	0.000349 U	0.000820 U	0.00683	0.00229	0.00789	0.000310 U	0.000880 J							
MW-159	MW-159-20	4/16/18	PES	ESC	20	22.79	-	-	-	0.000326 U	0.000525 U	0.000359 U	0.000844 U	0.000334 U	0.000337 U	0.000284 U	0.000319 U	0.000352 U							
	MW-159-30	4/16/18	PES	ESC	30	12.79	-	-	-	0.000329 U	0.000529 U	0.000362 U	0.000851 U	0.0196	0.0234	0.0506	0.000365 J	0.000355 U							
MW-160	MW-160-11	5/8/18	PES	ESC	11	31.50	-	-	-	0.000649 U	0.00635 J	0.000860 U	0.00776 U	0.00114 U	0.000649 U	0.00112 U	0.00232 U	0.00110 U							
	MW-160-21	5/8/18	PES	ESC	21	21.50	-	-	-	0.000662 J	0.00421 J	0.000621 U	0.00560 U	0.000966 J	0.000469 U	0.00357	0.00168 U	0.000801 U							
	MW-160-31	5/8/18	PES	ESC	31	11.50	-	-	-	0.000503 J	0.00285 J	0.000643 U	0.00580 U	0.000849 U	0.000485 U	0.000837 U	0.00173 U	0.000828 U							
	MW-160-40	5/8/18	PES	ESC	40	2.50	-	-	-	0.000454 U	0.00196 J	0.000602 U	0.00543 U	0.281	0.100	0.151	0.00373 J	0.000775 U							
	MW-160-50	5/8/18	PES	ESC	50	-7.50	-	-	-	0.000457 U	0.00144 J	0.000606 U	0.00546 U	0.00276 J	0.000714 J	0.00694	0.00163 U	0.000780 U							
	MW-160-55	5/8/18	PES	ESC	55	-12.50	-	-	-	0.000474 U	0.00185 J	0.000629 U	0.00567 U	6.27	1.11	1.50	0.0221	0.0107							
	MW-160-60	5/8/18	PES	ESC	60	-17.50	-	-	-	0.00134	0.00595	0.000699 J	0.00521 U	0.111	0.0907	0.352	0.00162 J	0.000744 U							
	MW-160-70	5/8/18	PES	ESC	70	-27.50	-	-	-	0.000467 U	0.00221 J	0.000619 U	0.00558 U	0.00208 J	0.00150	0.00460	0.00167 U	0.000798 U							
	MW-160-90	5/8/18	PES	ESC	90	-47.50	-	-	-	0.000471 U	0.00240 J	0.000624 U	0.00563 U	0.000824 U	0.00151	0.00432	0.00168 U	0.000804 U							
	MW-160-100	5/8/18	PES	ESC	100	-57.50	-	-	-	0.000481 U	0.00150 U	0.000638 U	0.00575 U	0.000842 U	0.00153	0.00506	0.00172 U	0.000822 U							
	MW-160-110	5/8/18	PES	ESC	110	-67.50	-	-	-	0.000454 U	0.00144 J	0.000601 U	0.00542 U	0.0113	0.00478	0.0128	0.00162 U	0.000774 U							
	MW-160-125	5/10/18	PES	ESC	125	-82.50	-	-	-	0.000458 U	0.00265 J	0.000607 U	0.00547 U	0.00262 J	0.000576 J	0.000832 J	0.00164 U	0.000782 U							

Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)													
							Screening Levels													
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050									
MW-160	MW-160-127.5	5/10/18	PES	ESC	128	-85.00	-	-	-	0.000462 U	0.00144 U	0.000612 U	0.00552 U	0.000808 U	0.000462 U	0.000797 U	0.00165 U	0.000789 U		
MW-161	MW-161-11	5/14/18	PES	ESC	11	32.82	-	-	-	0.00123 U	0.00615 U	0.00307 U	0.00799 U	<b>0.00523</b>	0.00123 U	<b>0.00563</b>	0.00615 U	0.00307 U		
	MW-161-21	5/14/18	PES	ESC	21	22.82	-	-	-	0.00104 U	0.00520 U	0.00260 U	0.00676 U	0.00260 U	0.00104 U	<b>0.00364</b>	0.00520 U	0.00260 U		
	MW-161-31	5/14/18	PES	ESC	31	12.82	-	-	-	0.00114 U	0.00572 U	0.00286 U	0.00744 U	<b>0.0159</b>	<b>0.00196</b>	<b>0.00387</b>	0.00572 U	0.00286 U		
	MW-161-40	5/14/18	PES	ESC	40	3.82	-	-	-	0.00110 U	0.00552 U	0.00276 U	0.00717 U	<b>0.00438</b>	<b>0.00132</b>	<b>0.376</b>	0.00552 U	0.00276 U		
	MW-161-50	5/14/18	PES	ESC	50	-6.18	-	-	-	0.00112 U	0.00558 U	0.00279 U	0.00725 U	<b>0.0173</b>	<b>0.00956</b>	<b>0.0356</b>	0.00558 U	0.00279 U		
	MW-161-60	5/14/18	PES	ESC	60	-16.18	-	-	-	0.00114 U	0.00571 U	0.00286 U	0.00742 U	<b>0.0356</b>	<b>0.00328</b>	<b>0.0316</b>	0.00571 U	0.00286 U		
	MW-161-70	5/14/18	PES	ESC	70	-26.18	-	-	-	0.00112 U	0.00558 U	0.00279 U	0.00726 U	0.00279 U	0.00112 U	0.00279 U	0.00558 U	0.00279 U		
	MW-161-80	5/14/18	PES	ESC	80	-36.18	-	-	-	0.00123 U	0.00616 U	0.00308 U	0.00801 U	0.00308 U	0.00123 U	0.00308 U	0.00616 U	0.00308 U		
	MW-161-90	5/14/18	PES	ESC	90	-46.18	-	-	-	0.00114 U	0.00569 U	0.00285 U	0.00740 U	0.00285 U	0.00114 U	0.00285 U	0.00569 U	0.00285 U		
	B-927-30	5/14/18	PES	ESC	90 (dup)	-46.18	-	-	-	0.00124 U	0.00621 U	0.00310 U	0.00807 U	0.00310 U	0.00124 U	0.00310 U	0.00621 U	0.00310 U		
	MW-161-100	5/14/18	PES	ESC	100	-56.18	-	-	-	0.00116 U	0.00582 U	0.00291 U	0.00757 U	0.00291 U	0.00116 U	0.00291 U	0.00582 U	0.00291 U		
	MW-161-110	5/14/18	PES	ESC	110	-66.18	-	-	-	0.00122 U	0.00610 U	0.00305 U	0.00793 U	0.00305 U	0.00122 U	0.00305 U	0.00610 U	0.00305 U		
	MW-161-120	5/14/18	PES	ESC	120	-76.18	-	-	-	0.00122 U	0.00610 U	0.00305 U	0.00793 U	0.00305 U	0.00122 U	0.00305 U	0.00610 U	0.00305 U		
	MW-161-130	5/14/18	PES	ESC	130	-86.18	-	-	-	0.00110 U	0.00550 U	0.00275 U	0.00715 U	<b>0.0307</b>	<b>0.0114</b>	0.00275 U	0.00550 U	0.00275 U		
MW-161-140	5/15/18	PES	ESC	140	-96.18	-	-	-	<b>0.000580 J</b>	<b>0.00175 J</b>	0.000650 U	0.00586 U	0.000858 U	0.000490 U	0.000846 U	0.00175 U	0.000837 U			
PW-1	Composite	1/1/98	B&V	Unknown	-	-	31 U	63 U	130 U	-	-	-	-	-	-	-	-	-		
PW-4	Composite	5/13/98	B&V	Unknown	-	-	27 U	53 U	110 U	ND	ND	ND	ND	ND	ND	ND	ND	ND		
R-MW4	Unknown	10/22/92	Roux	Unknown	5	35.94	-	-	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
	Unknown	10/22/92	Roux	Unknown	15	25.94	-	-	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
	Unknown	10/22/92	Roux	Unknown	30	10.94	-	-	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
R-MW6	Unknown	10/27/92	Roux	Unknown	6	39.28	-	-	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
	Unknown	10/27/92	Roux	Unknown	11	34.28	-	-	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
R-MW6	Unknown	10/27/92	Roux	Unknown	16	29.28	-	-	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
RB1	RB1-17.5	10/18/93	Retec	AAL	17.5	18.40	5 U	-	-	0.063 U	0.063 U	0.063 U	0.13 U	-	-	-	-	-		
RB2	RB2-12.5	10/18/93	Retec	AAL	12.5	23.60	5 U	-	-	0.062 U	0.062 U	0.062 U	0.012 U	-	-	-	-	-		
	RB2-17.5	10/18/93	Retec	AAL	17.5	18.60	5 U	-	-	<b>0.045 J</b>	0.062 U	<b>0.058 J</b>	<b>0.18</b>	-	-	-	-	-		
RB3	RB3-17.5	10/18/93	Retec	AAL	17.5	20.50	5 U	-	-	0.061 U	0.061 U	0.061 U	0.12 U	-	-	-	-	-		
SCL-B100	B-100, S1	6/10/02	Urban	F&BI	-	-	1 U	50 U	-	0.02 U	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		
	B-100, S2	6/10/02	Urban	F&BI	-	-	1 U	50 U	-	0.02 U	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		
SCL-B101	B-101- S1&2	6/17/02	Urban	F&BI	-	-	<b>2</b>	<b>140</b>	-	0.02 U	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		
	B101-S3	6/17/02	Urban	F&BI	-	-	1 U	50 U	-	0.02 U	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		
SCL-B102	B102-S1	6/17/02	Urban	F&BI	-	-	<b>6</b>	<b>430</b>	-	<b>0.03</b>	<b>0.09</b>	<b>0.04</b>	<b>0.13</b>	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		
	B102-S2	6/17/02	Urban	F&BI	-	-	1 U	50 U	-	0.02 U	0.02 U	0.02 U	0.02 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U		
SCL-MW101	MW101-S3	6/14/02	Urban	F&BI	-	-	1 U	-	-	<b>0.07</b>	0.02 U	<b>0.04</b>	<b>0.05</b>	-	-	-	-	-		
SCL-MW102	MW-102, S1	6/10/02	Urban	F&BI	-	-	<b>99</b>	-	-	<b>0.67</b>	<b>0.47</b>	<b>1.0</b>	<b>2.5</b>	-	-	-	-	-		
	MW-102, S2	6/10/02	Urban	F&BI	-	-	<b>2</b>	-	-	<b>0.05</b>	0.02 U	<b>0.12</b>	<b>0.07</b>	-	-	-	-	-		
SCL-MW103	MW103-S1&S2	6/14/02	Urban	F&BI	-	-	1 U	-	-	0.02 U	0.02 U	0.02 U	0.02 U	-	-	-	-	-		
SCL-MW105	MW-105, S2	6/10/02	Urban	F&BI	-	-	<b>650</b>	-	-	<b>2.1</b>	<b>1.5</b>	<b>11</b>	<b>24</b>	-	-	-	-	-		
	MW-105, S4	6/10/02	Urban	F&BI	-	-	1 U	-	-	<b>0.05</b>	0.02 U	0.02 U	<b>0.03</b>	-	-	-	-	-		
SCLB-1	RS1-2.5/RS-1 7.5 (Comp)	3/12/93	EPJ	OnSite	2.5-7.5	-	20 U	<b>290</b>	100 U	-	-	-	-	-	-	-	-	-		
	RS1-12.5/RS1-17.5 (Comp)	3/12/93	EPJ	OnSite	12.5-17.5	-	<b>310</b>	-	-	<b>2.0</b>	<b>0.66</b>	<b>5.0</b>	<b>25.2</b> ve	-	-	-	-	-		
	RS-1 17.5	3/12/93	EPJ	OnSite	17.5	21.00	-	25 U	-	-	-	-	-	-	-	-	-	-		
	RS1-22.5/RS-27.5 (Comp)	3/12/93	EPJ	OnSite	22.5-27.5	-	<b>30 J</b>	-	-	<b>0.089 J</b>	<b>0.14</b>	<b>0.31</b>	<b>1.53</b>	-	-	-	-	-		
	RS1-32.5	3/12/93	EPJ	OnSite	32.5	6.00	<b>77</b>	-	-	<b>0.18</b>	<b>0.35</b>	<b>0.96</b>	<b>4.8</b>	-	-	-	-	-		
RS1-37.5	3/12/93	EPJ	OnSite	37.5	1.00	5 U	-	-	0.050 U	0.05 U	0.05 U	1 U	-	-	-	-	-			
SCLB-2	RS2-2.5/RS-2 7.5 (Comp)	3/12/93	EPJ	OnSite	2.5-7.5	-	<b>110</b>	<b>610</b>	100 U	-	-	-	-	-	-	-	-	-		
	RS2-12.5/RS2-17.5 (Comp)	3/12/93	EPJ	OnSite	12.5-17.5	-	<b>1,800</b>	-	-	<b>4.0</b>	<b>24</b>	<b>23</b>	<b>115</b> ve	-	-	-	-	-		
	RS2-17.5	3/12/93	EPJ	OnSite	17.5	21.00	-	<b>240</b>	-	-	-	-	-	-	-	-	-	-		
	RS2-22.5/RS2-27.5 (Comp)	3/12/93	EPJ	OnSite	22.5-27.5	-	<b>59</b>	-	-	<b>0.8</b>	<b>1.1</b>	<b>0.85</b>	<b>3.9</b>	-	-	-	-	-		
	RS2-32.5	3/12/93	EPJ	OnSite	32.5	6.00	<b>94</b>	25 U	-	<b>1.5</b>	<b>2.7</b>	<b>1.4</b>	<b>6.8</b>	-	-	-	-	-		



Table C-1

**Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated Volatile Organic Compounds  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																		
							Screening Levels							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
							30	2,000	2,000	0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050							
SCLB-2	RS2-37.5	3/12/93	EPJ	OnSite	37.5	1.00	9.8	-	-	-	0.74	0.05	U	0.11	1.34	-	-	-	-	-					
SSD-MW-1	MW-1 S-2	5/24/89	HC	Unknown	5-6.5	34.00	4	A	-	-	0.01	U	0.01	U	0.01	U	-	-	-	-					
	MW-1 S-6	5/24/89	HC	Unknown	15-16.5	24.00	332	A	-	-	0.01	U	1.03	2.84	6.25	-	-	-	-	-					
SSD-MW-2	MW-2 S-3	5/24/89	HC	Unknown	7.5-9	31.00	338	A	-	-	0.01	U	0.01	U	0.01	U	-	-	-	-					
	MW-2 S-6	5/24/89	HC	Unknown	15-16.5	31.00	71	A	-	-	0.01	U	0.53	0.01	U	0.01	U	-	-	-					
SSD-MW-3	MW-3 S-2	5/24/89	HC	Unknown	5-6.5	34.00	1	A	-	-	0.01	U	0.01	U	0.01	U	-	-	-	-					
	MW-3 S-5	5/24/89	HC	Unknown	12.5-14	34.00	5	A	-	-	0.01	U	0.01	U	0.01	U	-	-	-	-					
SSD-MW-4	MW-4 S-6	5/25/89	HC	Unknown	14.5-16	36.80	6	A	-	-	0.01	U	0.01	U	0.069	0.096	-	-	-	-					
	MW-4 S-9	5/25/89	HC	Unknown	22-23	29.50	9	A	-	-	0.01	U	0.01	U	0.01	U	-	-	-	-					
TB-12	16	8/1/97	B&V	Unknown	62-63	-24.50	24	U	60	U	119	U	-	-	-	-	-	-	-	-					
TB-18	S-2	3/17/98	B&V	Unknown	5-6.5	38.30	27	U	55	U	110	U	ND	ND	ND	ND	ND	ND	ND	ND					
	S-8	3/17/98	B&V	Unknown	20-21.5	38.30	28	U	56	U	110	U	ND	ND	ND	ND	ND	ND	ND	ND					
	S-21	3/17/98	B&V	Unknown	57.5-59	38.30	28	U	56	U	110	U	ND	ND	ND	ND	ND	ND	ND	ND					
W-MW-01 (P-03)	SB-W-03-0160	1/27/12	WW	ARI	16-16.5	28.38	-	-	-	0.0010	U	0.0006	J	0.0010	U	0.0020	U	0.0010	U	0.0006	J				
	SB-W-03-0225	1/27/12	WW	ARI	22.5-23	21.88	-	-	-	0.0009	U	0.0007	J	0.0009	U	0.0018	U	0.03	B	0.0018	0.0021				
	SB-W-03-0315	1/27/12	WW	ARI	31.5-32	12.88	-	-	-	0.21	U	0.21	U	0.21	U	0.42	U	16	B	0.59	0.48				
	SB-W-03-0450	1/27/12	WW	ARI	45-45.5	-0.62	-	-	-	0.0007	U	0.0006	J	0.0007	U	0.0014	U	0.38	B	0.022	0.041				
	SB-W-03-0550	1/27/12	WW	ARI	55.5-56	-11.12	-	-	-	0.045	U	0.045	U	0.045	U	0.09	U	1.9	J	0.17	0.13				
	SB-W-03-0645	1/27/12	WW	ARI	64.5-65	-20.12	-	-	-	0.0008	U	0.0008	U	0.0008	U	0.0016	U	0.0008	U	0.0008	U				
W-MW-02 (P-06)	SB-W-03-0730	1/27/12	WW	ARI	73-73.5	-28.62	-	-	-	0.0007	U	0.0006	J	0.0007	U	0.0014	U	0.1	B	0.0081	0.025				
	SB-W-06-0900	1/29/12	WW	ARI	9-9.5	33.96	-	-	-	0.0009	J	0.0013	U	0.0013	U	0.0026	U	0.058	T	0.0081	0.0013				
	SB-W-06-0185	1/29/12	WW	ARI	18.5-19	24.46	-	-	-	0.0008	J	0.0006	J	0.0009	U	0.0018	U	0.0009	UT	0.0009	U				
	SB-W-06-0305	1/30/12	WW	ARI	30.5-31	12.60	-	-	-	0.27	U	0.27	U	0.27	U	0.34	U	18		0.41	0.4				
	SB-W-06-0380	1/30/12	WW	ARI	38-38.5	4.96	-	-	-	0.046	U	0.046	U	0.046	U	0.092	U	0.14		0.057	0.52				
	SB-W-06-0405	1/30/12	WW	ARI	40.5-41	2.46	-	-	-	0.036	U	0.036	U	0.036	U	0.072	U	5.2		0.2	0.15				
	SB-W-06-0485	1/30/12	WW	ARI	48.5-49	-5.54	-	-	-	0.0008	U	0.0008	U	0.0008	U	0.0016	U	0.033		0.0007	J				
	SB-W-06-9485	1/30/12	WW	ARI	48.5-49 (dup)	-5.54	-	-	-	0.0009	U	0.0009	U	0.0009	U	0.0018	U	0.052		0.0011	0.0010				
	SB-W-06-0590	1/30/12	WW	ARI	59-59.5	-16.04	-	-	-	0.043	U	0.043	U	0.043	U	0.086	U	0.53		0.037	J				
SB-W-06-0715	1/30/12	WW	ARI	71.5-72	-28.54	-	-	-	0.0008	U	0.0008	U	0.0008	U	0.0016	U	0.0009		0.0008	U					
SB-W-06-0790	1/31/12	WW	ARI	79-79.5	-36.04	-	-	-	0.0009	U	0.0009	U	0.0009	U	0.0018	U	0.0022		0.0009	U					
<b>Off Property Statistics</b>							Number of Analytes Measured	133	54	45	281	281	281	281	368	368	362	360	366						
							Number of Analytes Detected	41	9	7	42	40	26	29	94	69	84	13	33						
							Frequency of Detection	31%	17%	16%	15%	14%	9%	10%	26%	19%	23%	4%	9%						
							Maximum Detection	4,100	610	770	10.0	160	54	300	19	3.57	3.00	0.0221	0.656						
							Minimum Detection	0.0376	U	5.90	U	12	U	0.000285	U	0.000454	U	0.000311	U	0.000730	U	0.000289	U		
								0.000290	U	0.000290	U	0.000244	UJ	0.000274	U	0.000302	U								
<b>On and Off Property Statistics</b>							Number of Analytes Measured	239	58	49	1,137	1,137	1,137	1,137	1,360	1,359	1,353	1,352	1,357						
							Number of Analytes Detected	101	10	7	133	183	66	62	933	764	813	295	445						
							Frequency of Detection	42%	17%	14%	12%	16%	6%	5%	69%	56%	60%	22%	33%						
							Maximum Detection	4,100	610	770	10.0	160	54.0	300	16,400	113	329	0.700	17.0						
							Minimum Detection	0.0353	U	5.90	U	12	U	0.000281	U	0.000325	U	0.000297	UJ	0.000400	J	0.000289	U		
								0.000290	U	0.000290	U	0.000244	UJ	0.000274	U	0.000302	U								

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Sample Location	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)													
							GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
<b>Screening Levels</b>							<b>30</b>	<b>2,000</b>	<b>2,000</b>	<b>0.030</b>	<b>0.273</b>	<b>0.343</b>	<b>0.831</b>	<b>0.025</b>	<b>0.030</b>	<b>0.050</b>	<b>0.050</b>	<b>0.050</b>		
<p><u>Notes:</u></p> <p>1. PHCs Analyzed by Method WTPH-HCID, Method 418.1, EPA Method 8020, EPA Method 8015M, or NWTPH-Gx.</p> <p>2. VOCs Analyzed by EPA Methods 8010, 8020, 8021B, 8260B, 624/8240, or 8260C.</p> <p>3. MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, revised November 2007.</p> <p>4. CLARC, Soil, Method B, Non Cancer, CLARC website - &lt;<a href="https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx</a>&gt;. Updated August 2015.</p> <p>5. CLARC, Soil, Method B, Cancer, CLARC website - &lt;<a href="https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx</a>&gt;. Updated August 2015.</p> <p><u>Laboratory and Results Notes:</u></p> <p>6. Detected results shown in bold, detections above the MTCA Cleanup level highlighted in gray</p> <p>7. – =results not available or results not analyzed/measured</p> <p>8. A = Result reported as total petroleum hydrocarbons.</p> <p>9. B = Analyte detected in an associated method blank.</p> <p>10. J = The reported concentration is an estimate based on detectable results between the method detection limit and reporting limit, laboratory QA/QC, or data validation review.</p> <p>11. J+ = The result is an estimated quantity, but the result may be biased high.</p> <p>12. J- = The result is an estimated quantity, but the result may be biased low.</p> <p>13. ND = not detected above laboratory reporting limit; reporting limit not available</p> <p>14. q = Sample may contain gasoline or petroleum components. Chromatographic pattern indicates the presence of gasoline constituents.</p> <p>15. R = The data is unusable. The sample result is rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample</p>							<p><u>Laboratory and Results Notes:</u></p> <p>16. T = Analyte also detected in trip blank.</p> <p>17. U = Not detected at a concentration exceeding laboratory reporting limit</p> <p>18. ve = Estimated value. The reported range exceeds the calibration range of the analysis.</p> <p>19. w = Petroleum product eluting in the C8-C9 range</p> <p>20. x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.</p> <p>21. z = Gasoline/petroleum detection result is likely elevated due to high detections of CVOCs.</p> <p><u>Abbreviations:</u></p> <p>22. PCE = perchloroethylene (tetrachloroethene)</p> <p>23. AAL = Alden Analytical Laboratories, Inc., of Seattle, Washington</p> <p>24. ARI = Analytical Resource, Incorporated, Seattle, Washington</p> <p>25. B&amp;V = Black Veatch</p> <p>26. bgs = below ground surface</p> <p>27. cDCE = cis-1,2-dichloroethene</p> <p>28. CLARC = cleanup levels and risk calculations</p> <p>29. CVOCs = chlorinated volatile organic compounds</p> <p>30. Comp = Composite Sample</p> <p>31. DRO = diesel-range petroleum hydrocarbons</p> <p>32. dup = duplicate</p> <p>33. EPJ = E.P.Johnson Construction Inc., and Environmental</p> <p>34. ESC = ESC Lab Services</p> <p>35. F&amp;BI = Friedman &amp; Bruya, Inc.</p> <p>36. GeoEng = GeoEngineers, Inc.</p>							<p><u>Abbreviations:</u></p> <p>35. GRO = gasoline-range petroleum hydrocarbons</p> <p>36. HC = HC, Inc.</p> <p>37. HCID = hydrocarbon identification</p> <p>38. MTCA = Washington State Model Toxics Control Act</p> <p>39. NCA = North Creek Analytical, of Bothell, Washington</p> <p>40. NWTPH = Northwest Total Petroleum Hydrocarbon</p> <p>41. OnSite = OnSite Environmental Inc., of Redmond, Washington</p> <p>42. ORO = oil-range petroleum hydrocarbons</p> <p>43. Pace = Pace Analytical</p> <p>44. PCE = perchloroethylene (tetrachloroethene)</p> <p>45. PES = PES Environmental, Inc.</p> <p>46. PHCs = petroleum hydrocarbons</p> <p>47. Retec = Remediation Technologies, Inc.</p> <p>48. Roux = Roux Associates</p> <p>49. SES = SoundEarth Strategies, Inc.</p> <p>50. TCE = trichloroethylene</p> <p>51. tDCE = trans-1,2-dichloroethene</p> <p>52. TR = TR Corporation</p> <p>53. Urban = Urban Redevelopment LLC</p> <p>54. VC = Vinyl Chloride</p> <p>55. WAC = Washington Administrative Code</p> <p>56. WW = WW Environmental LLC</p>						

Table C-2

Excavation Soil Analytical Results  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Sample ID	Sample Date	Sampled By	Laboratory	Sample Depth (ft bgs)	Analytical Results (milligrams per kilogram)																			
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	1,1-DCE	DCM	Napthalene	Total PAHs				
<b>The Property</b>																									
Sump No. 4	Sump4_Soil_01	7/22/2011	SES	F&BI	1	-	-	-	0.03 U	0.05 U	0.05 U	0.15 U	19	0.037	0.15	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U			
Excavation 1	EX01-S01-04	9/12/2002	SES	F&BI	4	-	-	-	-	-	-	-	-	14	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	-	-			
	EX01-S02-02.5				2.5	-	-	-	-	-	-	-	-	-	3.7	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	-	-	
	EX01-S03-05				5	-	-	-	-	-	-	-	-	-	19	0.052	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	-	-	
	EX01S04-4.2ht	2/10/2012			4.2	-	-	-	-	-	-	-	-	150	0.44	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.92	lc	-	-	
	EX01S05-6ht				6	-	-	-	-	-	-	-	-	-	190	0.38	0.23	0.05 U	0.05 U	0.05 U	0.05 U	0.51	lc	-	-
	EX01S07-2.5ht				2.5	-	-	-	-	-	-	-	-	-	-	5.4	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.52	lc	-
EX01-S18-07.5	3/21/2012				7.5	-	-	-	-	-	-	-	0.98	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	-	-			
Tank 1 Excavation	Tank1-SSW06	3/22/2013	SES	F&BI	6	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Tank1-WSW06				6	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Tank1-F08				8	-	120 x	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tank 2 Excavation	Tank2-NSW06	3/22/2013	SES	F&BI	6	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Tank2-F08				8	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tank 3 Excavation	Tank3-ESW05	3/22/2013	SES	F&BI	5	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Tank3-SSW05				5	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Tank3-F08				8	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tank 4 Excavation	Tank4-NSW08	3/22/2013	SES	F&BI	8	-	460 x	360	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Tank4-F10				10	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Tank 5 Excavation	Tank5-ESW02	3/22/2013	SES	F&BI	2	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Tank5-WSW02				2	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Tank5-F03				3	-	50 U	250 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
<b>753 9th Avenue North Parcel</b>																									
Tank 1 and 2 Excavation	T12-SPLS-1	7/22/1992	GTC	OnSite	7	3,000 M	-	-	0.25 U	1	22	111	-	-	-	-	-	-	-	-	-	-			
	T12-B-1	7/22/1992	GTC	OnSite	14	80	-	-	0.6	0.06	0.92	2.24	-	-	-	-	-	-	-	-	-	-			
	T12-CL-1	7/22/1992	GTC	OnSite	4	50 U	-	-	0.05 U	0.05 U	0.05 U	0.10 U	-	-	-	-	-	-	-	-	-				
Tank 3 Excavation	T3-SPLS-2	7/22/1992	GTC	OnSite	7.5	1,700 M	-	-	0.05 U	1.6	4.6	9.5	-	-	-	-	-	-	-	-	-				
	T3-CL-1	7/22/1992	GTC	OnSite	4	50 U	-	-	0.05 U	0.05 U	0.05 U	0.10 U	-	-	-	-	-	-	-	-	-				
<b>800 Aloha Street Parcel</b>																									
RS-01	RS-1	3/1/1993	EPJ	OnSite	3	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-	-	-	-	-				
RS-02	RS-2	3/1/1993	EPJ	OnSite	6	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-	-	-	-	-				
RS-04	RS-4	3/3/1993	EPJ	OnSite	7	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-	-	-	-	-				
RS-05	RS-5	3/3/1993	EPJ	OnSite	9	1,700	-	-	0.25 U	1.5	8.3	29.2	-	-	-	-	-	-	-	-	-				
RS-06	RS-6	3/3/1993	EPJ	OnSite	8	88	-	-	0.05 U	0.05 U	0.05 U	0.31	-	-	-	-	-	-	-	-	-				
RS-07	RS-7	3/3/1993	EPJ	OnSite	7	1,500	-	-	0.25 U	1.4	9.6	69	-	-	-	-	-	-	-	-	-				
RS-08	RS-8	3/3/1993	EPJ	OnSite	8	3,400	-	-	0.25 U	1.2	21	71	-	-	-	-	-	-	-	-	-				
RS-09	RS-9	3/3/1993	EPJ	OnSite	7	24	-	-	0.05 U	0.05 U	0.066	20.8	-	-	-	-	-	-	-	-	-				
RS-10	RS-10	3/3/1993	EPJ	OnSite	13	140	-	-	2.3	0.32	1.1	2.49	-	-	-	-	-	-	-	-	-				
RS-11	RS-11	3/3/1993	EPJ	OnSite	8	60	-	-	0.15	0.0088	0.18	0.5	-	-	-	-	-	-	-	-	-				
RS-12	RS-12	3/3/1993	EPJ	OnSite	10	3,800	-	-	2.5	1.4	14	20.8	-	-	-	-	-	-	-	-	-				
RS-13	RS-13	3/3/1993	EPJ	OnSite	9	3,100	-	-	4.1	1.4	27	26	-	-	-	-	-	-	-	-	-				
RS-14	RS-14	3/3/1993	EPJ	OnSite	8	1,100	-	-	0.690	2.2	7.3	33	-	-	-	-	-	-	-	-	-				
RS-15	RS-15	3/3/1993	EPJ	OnSite	4	1,900	-	-	5.1	1.7	28	279	-	-	-	-	-	-	-	-	-				
RS-16	RS-16	3/3/1993	EPJ	OnSite	4	15,000	-	-	100	260	170	460	-	-	-	-	-	-	-	-	-				
RS-17	Stockpile	3/4/1993	EPJ	OnSite	-	18,000 BE	-	-	170 E	300 BE	200 E	530 E	-	-	-	-	-	-	-	-	-				
RS-18	Stockpile	3/4/1993	EPJ	OnSite	-	1,700 B	-	-	1.5	7.4	4.8	41	-	-	-	-	-	-	-	-	-				
RS-19	Stockpile - Sludge from cleaning out USTs 1 and 2	3/10/1993	EPJ	OnSite	-	120,000 E	-	-	1,700 E	2,200 E	1,200 E	3,200 E	-	-	-	-	-	-	-	-	-				
RS-21	RS-21	3/5/1993	EPJ	OnSite	20	3,700	-	-	3	79 E	45 E	226 E	0.050 U	0.050 U	-	0.050 U	0.050 U	0.050 U	0.050 U	-	-				
RS-22	RS-22	3/5/1993	EPJ	OnSite	10	6,900	-	-	0.25 U	1.1	16	73 E	0.040 U	0.040 U	-	0.040 U	0.040 U	0.040 U	0.040 U	-	-				
RS-23	Stockpile	3/5/1993	EPJ	OnSite	-	4,600	-	-	0.88	18	42 E	199 E	-	-	-	-	-	-	-	-	-				
RS-24	Stockpile	3/5/1993	EPJ	OnSite	-	15	-	-	0.1 U	0.1 U	0.070	0.32	-	-	-	-	-	-	-	-	-				
RS-25	Stockpile	3/5/1993	EPJ	OnSite	-	2,600	-	-	0.25 U	7.4	18	129 E	-	-	-	-	-	-	-	-	-				

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Excavation Soil Analytical Results  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Sample ID	Sample Date	Sampled By	Laboratory	Sample Depth (ft bgs)	Analytical Results (milligrams per kilogram)														
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	1,1-DCE	DCM	Napthalene
RS-26	RS-26	3/8/1993	EPJ	OnSite	20	3,700 B	-	-	6.3	76 BE	50 E	216 E	-	-	-	-	-	-	-	-
RS-26A	Pit #3	3/16/1993	EPJ	OnSite	20	1,100	-	-	2.5	25	15	76 E	-	-	-	-	-	-	-	-
RS-27	RS-27	3/8/1993	EPJ	OnSite	6	15 BJ	-	-	0.050 U	0.33 B	0.19	0.95 B	-	-	-	-	-	-	-	-
RS-28	RS-28	3/8/1993	EPJ	OnSite	6	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-	-	-	-
RS-29	RS-29	8/3/1993	EPJ	OnSite	20	2,000 B	-	-	0.86	24 B	33	168 BE	-	-	-	-	-	-	-	-
RS-30	Stockpile	3/9/1993	EPJ	OnSite	-	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-	-	-	-
RS-31	Stockpile	3/9/1993	EPJ	OnSite	-	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-	-	-	-
RS-32	Stockpile	3/9/1993	EPJ	OnSite	-	20 U	50 U	100 U	-	-	-	-	-	-	-	-	-	-	-	-
RS-33	Stockpile	3/9/1993	EPJ	OnSite	-	20 U	50 U	220	-	-	-	-	-	-	-	-	-	-	-	-
RS-34	Stockpile	3/9/1993	EPJ	OnSite	-	20 U	50 U	220	-	-	-	-	-	-	-	-	-	-	-	-
RS-35	Stockpile	3/9/1993	EPJ	OnSite	-	20 U	50 U	220	-	-	-	-	-	-	-	-	-	-	-	-
RS-36	Stockpile	3/9/1993	EPJ	OnSite	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RS-37	Stockpile	3/9/1993	EPJ	OnSite	-	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PD-1	PD-1	6/28/1993	RT	AAL	19	3,300	-	-	17	45	39	221	-	-	-	-	-	-	-	-
PD-2	PD-2	6/28/1993	RT	AAL	10	19 U	-	-	0.25 U	20 U	10 U	10.0 U	-	-	-	-	-	-	-	-
PD-3	PD-3	6/28/1993	RT	AAL	17	1,700	-	-	7.5	20 U	12	60	-	-	-	-	-	-	-	-
PD-4	PD-4	6/28/1993	RT	AAL	17	19 U	-	-	0.25 U	20 U	10 U	10.0 U	-	-	-	-	-	-	-	-
PD-5	PD-5	6/28/1993	RT	AAL	10	19 U	-	-	0.25 U	20 U	10 U	10.0 U	-	-	-	-	-	-	-	-
TS1	TS1-17	9/27/1993	RT	ARI	17	110	-	-	0.29	1.8	2.1	11	-	-	-	-	-	-	-	-
TS2	TS2-15	9/27/1993	RT	ARI	15	41	-	-	0.14	0.064 U	0.46	0.67	-	-	-	-	-	-	-	-
TS4	TS4-25	10/4/1993	RT	ARI	25	1,400	-	-	8.2	51	22	120	-	-	-	-	-	-	-	-
TS5	TS5-10	10/4/1993	RT	ARI	10	1,200	-	-	0.58 U	9.3	10	68	-	-	-	-	-	-	-	-
TS6	TS6-19	10/4/1993	RT	ARI	19	1,300	-	-	7.7	43	22	120	-	-	-	-	-	-	-	-
TS7	TS7-15	10/4/1993	RT	ARI	15	5.0 U	-	-	0.056 U	0.056 U	0.056 U	0.11 U	-	-	-	-	-	-	-	-
TS8	TS8-25	10/4/1993	RT	ARI	25	560	-	-	3.5	20	9.1	50	-	-	-	-	-	-	-	-
TS9	TS9-25	10/4/1993	RT	ARI	25	1,600	-	-	2.9	7.6	24	110	-	-	-	-	-	-	-	-
TS10	TS10-15	10/6/1993	RT	ARI	15	37	-	-	0.1	0.82	0.82	4.3	-	-	-	-	-	-	-	-
TS11	TS11-10	10/6/1993	RT	ARI	10	5.0 U	-	-	0.056 U	0.056 U	0.056 U	0.113 U	-	-	-	-	-	-	-	-
TS12	TS12-10	10/6/1993	RT	ARI	10	5.0 U	-	-	0.056 U	0.056 U	0.056 U	0.113 U	-	-	-	-	-	-	-	-
TS13	TS13-18	10/6/1993	RT	ARI	18	360	-	-	4.8	4.6	4.6	27	-	-	-	-	-	-	-	-
TS15	TS15-15	10/14/1993	RT	AAL	15	1,500	-	-	3.3	28	23	130	-	-	-	-	-	-	-	-
SP-1	SP-1 (S-1)	6/11/2002	UR	F&BI	NA	7	2,400	-	-	-	-	-	-	-	-	-	-	-	-	0.18
	SP-1 (S-2)				NA	2	110	-	-	-	-	-	-	-	-	-	-	-	-	-
SP-2	SP-2 (S-1)	6/11/2002	UR	F&BI	NA	1 U	740	-	-	-	-	-	-	-	-	-	-	-	-	-
	SP-2 (S-2)				NA	1 U	230	-	-	-	-	-	-	-	-	-	-	-	-	-
SP-3	SP-3 (S-1)	6/11/2002	UR	F&BI	NA	-	670	-	-	-	-	-	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	-	0.18
SP-4	SP-4 (S-1)	6/11/2002	UR	F&BI	NA	-	320	-	-	-	-	-	-	-	-	-	-	-	-	-
SP-5	SP-5 (S-1)	6/11/2002	UR	F&BI	NA	-	280	-	-	-	-	-	-	-	-	-	-	-	-	-
SP-6	SP-6 (S-1)	6/11/2002	UR	F&BI	NA	-	190	-	-	-	-	-	-	-	-	-	-	-	-	-
	SP-6 (S-2)				NA	1 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP-7	SP-7 (S-1)	6/11/2002	UR	F&BI	NA	-	210	-	-	-	-	-	-	-	-	-	-	-	-	NA
SP-8	SP-8 (S-1)	6/11/2002	UR	F&BI	NA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SP-9	SP-9 (S-1)	6/11/2002	UR	F&BI	NA	32	1,800	-	0.14	0.17	0.13	0.47	-	-	-	-	-	-	-	-
	SP-9 (S-2)				NA	500	-	-	0.94	1.7	3.3	5.1	-	-	-	-	-	-	-	-
SP-10	SP-10 (S-2)	6/11/2002	UR	F&BI	NA	3,400	-	-	9.6	11	60	240	-	-	-	-	-	-	-	-
SP-11	SP-11 (S-1)	6/11/2002	UR	F&BI	NA	1 U	-	-	0.02 U	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	-	-
SP-12	SP-12 (S-1)	6/11/2002	UR	F&BI	NA	9	-	-	0.10	0.07	0.04	0.06	-	-	-	-	-	-	-	-
SP-13	SP-13 (S-1)	6/11/2002	UR	F&BI	NA	26	-	-	0.34	0.17	0.03	0.15	-	-	-	-	-	-	-	-
SP-14	SP-14 (S-1)	6/11/2002	UR	F&BI	NA	600	-	-	0.81	3.3	9.7	36	-	-	-	-	-	-	-	-
SP-15	SP-15 (S-6)	6/11/2002	UR	F&BI	NA	1 U	-	-	0.02 U	0.02 U	0.02 U	0.02 U	-	-	-	-	-	-	-	-



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Excavation Soil Analytical Results  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Sample ID	Sample Date	Sampled By	Laboratory	Sample Depth (ft bgs)	Analytical Results (milligrams per kilogram)																	
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	1,1-DCE	DCM	Napthalene	Total PAHs		
SP-16	SP16 (S1 & S2)	6/12/2002	UR	F&BI	NA	-	<b>650</b>	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	SP16 (S-5)				-	50	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	SP16 (S-6)				-	50	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SP16 (S-7)				-	50	U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SP-17	SP 17 (S-2)	6/12/2002	UR	F&BI	NA	<b>530</b>	-	-	<b>2.6</b>	<b>24</b>	<b>15</b>	<b>66</b>	-	-	-	-	-	-	-	-			
	SP 17 (S-3)				<b>11</b>	-	-	<b>0.04</b>	<b>0.07</b>	<b>0.29</b>	<b>0.26</b>	-	-	-	-	-	-	-	-	-			
SP-18	SP 18 (S-2)	6/12/2002	UR	F&BI	NA	<b>2,600</b>	-	-	<b>12</b>	<b>83</b>	<b>74</b>	<b>320</b>	-	-	-	-	-	-	-	-			
SP-19	SP 19 (S-1)	6/12/2002	UR	F&BI	NA	<b>85</b>	<b>570</b>	-	<b>2.2</b>	<b>1.0</b>	<b>1.9</b>	<b>3.6</b>	-	-	-	-	-	-	-				
	SP 19 (S-2)				<b>4,100</b>	-	-	<b>16</b>	<b>120</b>	<b>110</b>	<b>500</b>	-	-	-	-	-	-	-	-				
SP-20	SP20 (S-2-5')	6/12/2002	UR	F&BI	NA	<b>5</b>	-	-	<b>0.14</b>	<b>0.03</b>	<b>0.15</b>	<b>0.26</b>	-	-	-	-	-	-	-				
	SP20 (S-2-8')				1	U	-	-	<b>0.07</b>	0.02	U	0.02	U	<b>0.05</b>	-	-	-	-	-				
SP-21	SP-21 (S-1)	6/12/2002	UR	F&BI	NA	<b>25</b>	<b>350</b>	-	<b>0.84</b>	<b>0.23</b>	<b>0.17</b>	<b>0.17</b>	-	-	-	-	-	-	-				
	SP-21 (S-2)				<b>1,200</b>	-	-	<b>3.5</b>	<b>12</b>	<b>19</b>	<b>52</b>	-	-	-	-	-	-	-	-				
<b>MTCA Cleanup Level for Soil</b>						<b>30<sup>(8)</sup></b>	<b>2,000<sup>(8)</sup></b>	<b>2,000<sup>(8)</sup></b>	<b>0.03<sup>(8)</sup></b>	<b>7<sup>(8)</sup></b>	<b>6<sup>(8)</sup></b>	<b>9<sup>(8)</sup></b>	<b>0.05<sup>(8)</sup></b>	<b>0.03<sup>(8)</sup></b>	<b>160<sup>(9)</sup></b>	<b>1,600<sup>(9)</sup></b>	<b>0.67<sup>(10)</sup></b>	<b>4,000<sup>(8)</sup></b>	<b>0.02<sup>(8)</sup></b>	<b>5<sup>(8)</sup></b>	<b>0.1<sup>(8)(11)</sup></b>		
<p><u>Notes:</u></p> <p>PHCs analyzed by Method WTPH-HCID, EPA Method 8020, EPA Method 8015M, or NWTPH-Gx, or EPA Method WTPH-HCID, or Method 418.1.</p> <p>VOCs analyzed by EPA Methods 8010, 8020, 8021B, 8260B, 624/8240, or 8260C, or 8270D, or 8270-SIM.</p> <p>PAHs analyzed by EPA Methods 8010, 8260B, 8260C, 8270, 8270D, or 8270D-SIM.</p> <p>(7)When determining the total TEC of benzo(a)pyrene for a sample, the concentrations of each of the seven cPAHs listed in table 708-2 (under WAC 173-340-900) is multiplied by its corresponding TEF. The sum of these seven factors equal the total TEC.</p> <p>When the analytical result for any individual cPAH is reported as less than the LRL, half of the LRL is used as the concentrations for the calculation. The resultant total TEC concentration is then compared to the cleanup level for benzo(a)pyrene.</p> <p>(8)MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, revised November 2007.</p> <p>(9)CLARC, Soil, Method B, Non Cancer, CLARC website - &lt;https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx&gt;. Updated August 2015.</p> <p>(10)CLARC, Soil, Method B, Cancer, CLARC website - &lt;https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx&gt;. Updated August 2015.</p> <p>(11)The cleanup level for carcinogenic PAHs is based on direct contact using Equation 740-2 under WAC 173-340-740.</p> <p>When establishing and determining compliance with cleanup levels for mixtures of carcinogenic PAHs, the mixture of carcinogenic PAHs is considered a single hazardous substance. Benzo(a)pyrene's cleanup level is used as the cleanup level for the mixture.</p>						<p><u>Abbreviations</u></p> <p>AAL = Alden Analytical Laboratories, Inc., of Seattle, Washington</p> <p>ARI = Analytical Resources, Inc.</p> <p>bgs = below ground surface</p> <p>cDCE = cis-1,2-dichloroethene</p> <p>CLARC = cleanup levels and risk calculations</p> <p>cPAHs = carcinogenic polycyclic aromatic hydrocarbons</p> <p>1,1-DCE = 1,1-dichloroethylene</p> <p>DCM = dichloromethane (methylene chloride)</p> <p>DRPH = diesel-range petroleum hydrocarbons</p> <p>EPJ = E.P.Johnson Construction, Inc&amp; Environmental</p> <p>F&amp;BI = Friedman &amp; Bruya, Inc., of Seattle, Washington</p> <p>GRPH = gasoline-range petroleum hydrocarbons</p> <p>GTC = GeoTech Consultants, Inc.</p> <p>MTCA = Washington State Model Toxics Control Act</p>						<p>OnSite = OnSite Environmental Inc., of Redmond, Washington</p> <p>ORPH = oil-range petroleum hydrocarbons</p> <p>PAHs = polycyclic aromatic hydrocarbons</p> <p>PCE = perchloroethylene (tetrachloroethene)</p> <p>RT = Remediation Technologies, Inc./ThermoRetec Corporation</p> <p>SES = SoundEarth Strategies, Inc.</p> <p>TCE = trichloroethylene</p> <p>tDCE = trans-1,2-dichloroethene</p> <p>TEC = toxicity equivalent concentration</p> <p>TEF = total equivalency factor</p> <p>UR = Urban Redevelopment LLC</p> <p>WAC = Washington State Administrative Code</p>						<p><u>Laboratory and Results Notes</u></p> <p>Detected results shown in bold, detections above the MTCA Cleanup level highlighted in gray</p> <p>- = not analyzed</p> <p>B = Analyte detected in an associated Merthod Blank</p> <p>E = Estimated value. The reported range exceeds the calibration range of the analysis.</p> <p>ht = Analysis performed outside the method or client-specified holding time requirement.</p> <p>J = Estimated concentration.</p> <p>lc = The presence of the compound indicated is likely due to laboratory contamination.</p> <p>M = Headspace present in sample</p> <p>NA = results not available</p> <p>U = not detected at a concentration exceeding the laboratory reporting limit</p> <p>x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.</p>					

Table C-3

**Soil Analytical Results for Metals  
Former American Linen Property  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Laboratory	Sample Depth (feet bgs)	Analytical Results (milligrams per kilogram)							
						Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
<b>The Property</b>													
Tank 2 Excavation	Tank2-F08	3/22/13	SES	F&BI	8	<b>1.81</b>	<b>39.4</b>	1 U	<b>10.8</b>	<b>6.94</b>	<b>0.28</b>	1 U	1 U
<b>800 Aloha Street Parcel</b>													
RS-05	RS-5	3/3/93	EPJ	SAS	9	-	-	-	-	<b>32</b>	-	-	-
RS-10	RS-10	3/3/93	EPJ	SAS	13	-	-	-	-	<b>71</b>	-	-	-
RS-15	RS-15	3/3/93	EPJ	SAS	4	-	-	-	-	<b>480</b>	-	-	-
RS-16	RS-16	3/3/93	EPJ	SAS	4	-	-	-	-	<b>80</b>	-	-	-
RS-17 & RS-24	RS-17/RS-24	3/3/93	EPJ	SAS	-	4.2 U	<b>260</b>	<b>1.4</b>	<b>24</b>	<b>120</b>	<b>0.33</b>	4.2 U	<b>0.79</b>
SCL-B100	B-100, S1	6/10/02	Urban	F&BI	NA	10 U	<b>50</b>	1.0 U	<b>25</b>	<b>4.5</b>	0.200 U	10 U	10 U
	B-100, S2	6/11/02			NA	10 U	<b>45</b>	1.0 U	<b>24</b>	<b>4.1</b>	0.200 U	10 U	10 U
SP-1	SP-1 (S-1)	6/11/02	Urban	F&BI	NA	10 U	<b>170</b>	1.0 U	<b>24</b>	<b>140</b>	<b>1.28</b>	10 U	10 U
SP-2	SP-2 (S-2)	6/11/02	Urban	F&BI	NA	10 U	<b>83</b>	<b>1.7</b>	<b>18</b>	<b>44</b>	0.200 U	10 U	10 U
SP-3	SP-3 (S-1)	6/11/02	Urban	F&BI	NA	10 U	<b>120</b>	1.0 U	<b>20</b>	<b>230</b>	<b>1.32</b>	10 U	10 U
SP-7	SP-7 (S-1)	6/11/02	Urban	F&BI	NA	<b>16</b>	<b>230</b>	<b>1.0</b>	<b>18</b>	<b>410</b>	<b>2.81</b>	10 U	10 U
SP-16	SP16 (S1 & S2)	6/12/13	Urban	F&BI	NA	10 U	<b>400</b>	1.0 U	<b>30</b>	<b>220</b>	<b>0.247</b>	10 U	10 U
SCL-B101	B-101- S1&2	6/17/02	Urban	F&BI	NA	10 U	<b>170</b>	1.0 U	<b>18</b>	<b>230</b>	NA	10 U	10 U
	B101-S3				NA	10 U	<b>82</b>	1.0 U	<b>27</b>	<b>5.3</b>	NA	10 U	10 U
SCL-B102	B102-S2	6/17/02	Urban	F&BI	NA	10 U	<b>59</b>	1.0 U	<b>28</b>	<b>9.9</b>	NA	10 U	10 U
	B102-S1				NA	10 U	<b>210</b>	1.0 U	<b>24</b>	<b>440</b>	NA	10 U	10 U
SCL-MW-101	MW101-S3	6/14/02	Urban	F&BI	NA	10 U	<b>27</b>	1.0 U	<b>16</b>	<b>3.6</b>	NA	10 U	10 U
SCL-MW-103	MW103-S1&S2	6/14/02	Urban	F&BI	NA	10 U	<b>35</b>	1.0 U	<b>33</b>	<b>4.5</b>	NA	10 U	10 U
<b>MTCA Cleanup Level</b>						<b>20(3)</b>	<b>16,000(4)</b>	<b>2(3)</b>	<b>2,000(3)</b>	<b>250(3)</b>	<b>2(3)</b>	<b>400(4)</b>	<b>400(4)</b>
<u>Notes:</u> Trace elements analyzed by EPA Methods 200.8 or 6010. Mercury analyzed by EPA Method 1631E or 7471. (3)MTCA Cleanup Regulation, Chapter 173-340-900 of WAC, Table 740-1 Method A Cleanup Levels for Soil, revised November 2007. (4)CLARC, Soil, Method B, Non Cancer, CLARC website - < <a href="https://fortress.wa.gov/ecy/clarc/CLARHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARHome.aspx</a> >. Updated August 2015.				<u>Abbreviations:</u> bgs = below ground surface CLARC = cleanup levels and risk calculations EPJ = E.P. Johnson Construction, Inc. & Environmental F&BI = Friedman & Bruya, Inc., of Seattle, Washington MTCA = Washington State Model Toxics Control Act SAS = SoundAnalytical Services, Inc., of Tacoma, Washington SES = SoundEarth Strategies, Inc. Urban = Urban Redevelopment LLC				<u>Lab and Results Notes:</u> Detected results shown in bold, detections exceeding MTCA Cleanup Levels highlighted in gray. U = not detected at a concentration exceeding laboratory reporting limit. - = results not available or not analyzed					

Table C-4

**Chlorinated Volatile Organic Compound Toxicity Characteristic Leaching Procedure Results  
Former American Linen Supply  
700 Dexter Avenue North Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Sample Depth (feet bgs)	Analytical Results (milligrams per liter)								
					PCE	TCE	1,1-DCE	Vinyl Chloride	EDC	MEK	Carbon Disulfide	Chloroform	
<b>The Property</b>													
G-MW1	MW-1-8-20	07/20/01	GeoEngineers	20	<b>99.3 B</b>	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U
G-SB4/G-MW3	SB4-7-17.5	07/20/01	GeoEngineers	17.5	<b>0.182 B</b>	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U	0.0800 U
<b>Dangerous Waste Characteristics</b>					<b>0.7</b>	<b>0.5</b>	<b>0.7</b>	<b>0.2</b>	<b>0.5</b>	<b>200</b>	<b>NE</b>	<b>6</b>	
Notes: 1. Laboratory analyses conducted by North Creek Analytical, Inc. of Bothell, Bothell, Washington. 2. VOCs analyzed by U.S. Environmental Protection Agency Method 1311/8260B. 3. bgs = below ground surface 4. GeoEngineers = GeoEngineers, Inc. 5. PCE = perchloroethylene (tetrachloroethene) 6. TCE = trichloroethylene 7. 1,1-DCE = 1,1-dichloroethene 8. EDC = 1,2-dichloroethane 9. MEK = methyl ethyl ketone (2-Butanone) 10. Detected results shown in bold, detections exceeding Dangerous Waste Characteristics highlighted in gray 11. U = not detected at a concentration exceeding laboratory reporting limit 12. B = Analyte detected in an associated Method Blank. 13. NE = not established 14. Washington State Dangerous Waste Maximum Concentration of Contaminants for the Toxicity Characteristic, Chapter 173-303-090 of the Washington Administrative Code.													

Table C-5

**Metals Toxicity Characteristic Leaching Procedure Results  
Former American Linen Supply  
700 Dexter Avenue North Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sampled By	Sample Depth (feet bgs)	Analytical Results (milligrams per liter)								
					Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	
<b>800 Aloha Street Parcel</b>													
RS-19	Stockpile - Sludge from cleaning out USTs 1 and 2	3/10/93	EPJ	-	<b>0.20</b>	<b>0.42</b>	<b>0.50</b>	<b>0.01</b>	<b>2.8</b>	0.002 U	0.14 U	0.01 U	
RS-25	Stockpile	3/5/93	EPJ	-	0.10 U	<b>1.0</b>	0.005 U	0.01 U	<b>0.29</b>	0.002 U	0.15 U	0.01 U	
<b>Dangerous Waste Characteristics</b>					<b>5.0</b>	<b>100</b>	<b>1.0</b>	<b>5.0</b>	<b>5.0</b>	<b>0.2</b>	<b>1.0</b>	<b>5</b>	
<p><u>Notes:</u></p> <ol style="list-style-type: none"> <li>Laboratory analyses conducted by Sound Analytical Services, Inc., of Tacoma, Washington.</li> <li>Trace elements analyzed by EPA Method 6010.</li> <li>Mercury analyzed by EPA Method 7471.</li> <li>bgs = below ground surface</li> <li>EPJ = E.P. Johnson Construction, Inc. &amp; Environmental</li> <li>- = not measured</li> <li>Detected results shown in bold, detections exceeding MTCA Cleanup Levels highlighted in gray</li> <li>U = not detected at a concentration exceeding laboratory reporting limit</li> <li>Washington State Dangerous Waste Maximum Concentration of Contaminants for the Toxicity Characteristic, Chapter 173-303-090 of the Washington Administrative Code.</li> </ol>													



Table C-6

**Sludge Sample Analytical Results  
Former American Linen Property  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample ID	Sample Date	Sample Depth	Analytical Results (milligrams per kilogram)												
				Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	1,1-DCE	Methylene Chloride		
Sump 2	Sump 2	4/26/2011	–	0.03 U	<b>12</b>	0.05 U	<b>3.3</b>	<b>15</b>	<b>0.11</b>	<b>0.10</b>	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
Sump 3	Sump 3	5/2/2011	–	0.03 U	<b>0.074</b>	0.05 U	<b>0.12</b>	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
Sump 4	Sump 4	4/26/2011	–	3 U	<b>35</b>	5 U	<b>17 J</b>	<b>85,000</b>	<b>520</b>	<b>410</b>	5 U	5 U	5 U	5 U	5 U	
	SUMP4_B_20110629	6/29/2011	–	0.3 U	0.5 U	0.5 U	1.03 U	<b>560</b>	<b>5.4</b>	<b>27</b>	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	SUMP4_C_20110629	6/29/2011	–	30 U	50 U	50 U	150 U	<b>24,000</b>	<b>140</b>	<b>170</b>	50 U	50 U	50 U	50 U	50 U	
Sump 5	Sump 5	5/4/2012	–	<b>0.60</b>	<b>4.6</b>	<b>1.6</b>	<b>2.6</b>	<b>1,200</b>	<b>180</b>	<b>880</b>	<b>12</b>	<b>31</b>	<b>2.6</b>	0.2 U		
Cleanout 1	Cleanout 1 S-1/S-2 (composite)	4/26/2011	–	0.03 U	0.05 U	0.05 U	0.15 U	<b>5.5</b>	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
Cleanout 2	Clean out 2	5/2/2011	–	<b>0.38</b>	<b>6.0</b>	<b>1.7</b>	<b>11.9</b>	<b>2.6</b>	<b>0.14</b>	<b>1.0</b>	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
Trench 1	01_Floor Trench	7/22/2011	–	0.03 U	0.05 U	0.05 U	0.15 U	<b>0.10</b>	0.03 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	
Screening Level				0.030	0.273	0.343	0.831	0.025	0.030	0.050	0.050	0.050	0.050	0.050	0.050	
Dangerous Waste Criteria				NE	NE	NE	NE	14	NE	NE	NE	NE	NE	NE	NE	
<p>Notes:</p> <p>1. Chemical analyses conducted by Freidman &amp; Bruya Inc., of Seattle, Washington.</p> <p>2. VOCs analyzed by U.S. Environmental Protection Agency Method 8260C.</p> <p>3. PCE = perchloroethylene (tetrachloroethene)</p> <p>4. TCE = trichloroethene</p> <p>5. cDCE = cis-1,2-dichloroethene</p> <p>6. tDCE = trans-1,2-dichloroethene</p> <p>7. 1,1-DCE = 1,1-dichloroethylene</p> <p>8. Detected results shown in bold, detections above the MTCA Cleanup level highlighted in gray</p> <p>9. U = not detected at a concentration exceeding laboratory reporting limit</p> <p>10. J = estimated concentration.</p> <p>11. Dangerous Waste Criteria = Washington State Dangerous Waste Maximum Concentration of Contaminants for the Toxicity</p> <p>12. NE = not established</p>																

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																						
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane	
Screening Level				800	7,200	0.5	400	800	800	800	130	-	80	-	420	8.10	7.68	0.38	7	16	100	0.71	-	29	480	
<b>Shallow Water Bearing Zone</b>																										
F13	Property	03/27/17	Peristaltic	31.6 U	1.42 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.218 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/22/17	Peristaltic	31.6 U	1.38 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 UJ	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.194 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/05/18	Peristaltic	31.6 U	2.35 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.136 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.375 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
F5	Property	03/28/17	Peristaltic	234	38.3	0.515	0.143 U	0.134 U	0.183 U	0.202 J	0.140 U	0.769	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	516	4.31	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/22/17	Peristaltic	31.6 U	37.9	0.374 J	0.143 U	0.134 U	0.183 U	0.101 UJ	0.140 U	2.89	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	10.4	0.485 J	0.190 U	0.0924 U	0.158 U	0.305 U	
F9	Property	03/27/17	Peristaltic	31.6 U	1.40 J	0.529	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.158 J	0.539	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/22/17	Peristaltic	31.6 U	1.74 J	0.471 J	0.143 U	0.134 U	0.183 U	0.101 UJ	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	6.10	0.610	0.190 U	0.0924 U	0.158 U	0.305 U	
G12	Property	03/27/17	Peristaltic	-	2.71 J	0.243 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.344 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.55	95.9	1.97	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/30/17	Peristaltic	-	1.65 J	0.282 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.539 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	2.31	115	2.94	0.190 U	0.0924 U	0.158 U	0.305 U	
J15 (dup)	Property	03/27/17	Peristaltic	-	1.82 J	0.188 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.78	46.3	1.18	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/26/17	Peristaltic	-	1.49 J	0.173 J	0.143 U	0.134 U	0.183 U	0.101 UJ	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.84	39.8	1.06	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/26/17	Peristaltic	-	1.91 J	0.173 J	0.143 U	0.134 U	0.183 U	0.101 UJ	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.81	39.3	1.03	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/05/18	Peristaltic	41.2 J	7.35 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.10	26.3	0.709	0.190 U	0.0924 U	0.158 U	0.305 U	
J5	Property	03/21/17	Peristaltic	-	3.24 U	0.580	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.453 J	253	1.73	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/26/17	Peristaltic	-	1.15 J	0.252 J	0.143 U	0.134 U	0.183 U	0.101 UJ	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.425 J	366	1.94	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/05/18	Peristaltic	207	2.25 U	0.638	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	1.09 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.371 J	222	1.00	0.190 U	0.0924 U	0.158 U	0.305 U	
K8	Property	03/21/17	Peristaltic	-	3.26 U	0.239 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.47	123	0.680	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/26/17	Peristaltic	-	1.07 J	0.246 J	0.143 U	0.134 U	0.183 U	0.101 UJ	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.34	140	0.750	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/05/18	Peristaltic	156	2.89 U	0.251 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.822	104	0.750	0.190 U	0.0924 U	0.158 U	0.305 U	
M15 (dup)	Property	03/27/17	Peristaltic	-	1.45 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.631	32.7	0.561	0.190 U	0.0924 U	0.158 U	0.305 U	
		03/27/17	Peristaltic	-	1.79 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.196 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.588	31.7	0.513	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/26/17	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 UJ	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.508	25.8	0.523	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/05/18	Peristaltic	31.6 U	2.37 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.144 U	0.140 U	2.81	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.198 J	8.89	0.300 J	0.190 U	0.0924 U	0.158 U	0.305 U	
MW121	Property	03/28/17	Peristaltic	-	2.32 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.768	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/20/17	Peristaltic	-	1.05 U	0.186 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 UJ	0.188 U	1.13	0.152 U	0.190 U	0.0924 UJ	0.158 U	0.305 U	
		04/05/18	Peristaltic	31.6 U	2.74 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.959	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/31/19	Peristaltic	38.0 U	7.53 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	5.53	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW125	Valley Street ROW	03/22/17	Peristaltic	31.6 U	3.20 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.341 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/28/17	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/06/18	Peristaltic	31.6 U	1.33 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.278 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/21/19	Peristaltic	31.6 U	1.66 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW-154	Roy St ROW	04/30/18	Bladder	32.1 U	12.9 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.77	0.152 U	0.190 U	0.0924 UJ	0.158 U	0.305 U	
		01/21/19	Peristaltic	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	2.03	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW-155	Roy Street ROW	04/27/18	Peristaltic	60.9 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.466 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/21/19	Peristaltic	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.274 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW-159	8th Ave N ROW	04/26/18	Peristaltic	31.6 U	1.86 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.09	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/21/19	Peristaltic	31.6 U	1.98 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.651	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW-214 (dup) (dry)	Valley Street ROW	03/30/17	Peristaltic	-	1.75 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		03/30/17	Peristaltic	-	1.27 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U								

Table C-7

Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																		
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,3,5-TMB	VC	Total Xylenes	
Screening Level				800	-	4,800	4.6	640	24.3	160	800	1,600	2.4	72	200	1	240,000	-	-	80	0.2	10,000
Shallow Water Bearing Zone																						
F13	Property	03/27/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.936	0.316 U
		06/22/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	1.32	0.316 U
		04/05/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	20.3	0.412 U	0.0940 U	0.346 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.843	0.316 U
F5	Property	03/28/17	Peristaltic	0.126 U	0.138 U	93.1 J	1.07 U	0.888 J	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.727 U	0.0940 U	0.241 J	0.164 U	0.123 U	0.0739 U	0.124 U	90.6	0.316 U
		06/22/17	Peristaltic	0.126 U	0.138 U	41.2	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.708	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	63.9	0.316 U
F9	Property	03/27/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	2.04	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/22/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	1.70	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	3.57	0.316 U
G12	Property	03/27/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.233 J	0.164 U	0.123 U	0.0739 U	0.124 U	28.4	0.316 U
		06/30/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.323 J	0.164 U	0.123 U	0.0739 U	0.124 U	31.5	0.316 U
J15 (dup)	Property	03/27/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.495 J	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	6.99	0.316 U
		06/26/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.459 J	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	6.30	0.316 U
		06/26/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.551	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	6.73	0.316 U
		04/05/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	12.8	0.412 U	0.0940 U	0.358 J	0.164 U	0.123 U	0.0739 U	0.124 U	6.07	0.316 U
J5	Property	03/21/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	285	0.412 U	0.0940 U	78.5	0.164 U	0.123 U	0.0739 U	0.124 U	29.6	0.316 U
		06/26/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	36.1	0.506	0.0940 U	37.1	0.164 U	0.123 U	0.0739 U	0.124 U	77.7	0.316 U
		04/05/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	267	0.412 U	0.0940 U	70.5	0.164 U	0.123 U	0.0739 U	0.124 U	17.6	0.316 U
K8	Property	03/21/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	82.5	0.412 U	0.0940 U	22.0	0.164 U	0.123 U	0.0739 U	0.124 U	0.461 J	0.316 U
		06/26/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	67.9	0.412 U	0.0940 U	28.7	0.164 U	0.123 U	0.0739 U	0.124 U	0.456 J	0.316 U
		04/05/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	229	0.412 U	0.0940 U	26.3	0.164 U	0.123 U	0.0739 U	0.124 U	1.45	0.316 U
M15 (dup)	Property	03/27/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.733	0.164 U	0.123 U	0.0739 U	0.124 U	13.2	0.316 U
		03/27/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.670	0.164 U	0.123 U	0.0739 U	0.124 U	12.0	0.316 U
		06/26/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.233 J	0.412 U	0.0940 U	1.80	0.164 U	0.123 U	0.0739 U	0.124 U	15.0	0.316 U
		04/05/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.563	0.164 U	0.123 U	0.0739 U	0.124 U	11.1	0.316 U
MW121	Property	03/28/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	5.82	0.316 U
		06/20/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.774	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	7.68	0.316 U
		04/05/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	2.93	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	6.45	0.316 U
		01/31/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	19.8	0.316 U
MW125	Valley Street ROW	03/22/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.285 J	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/28/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/06/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.580	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		01/21/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW-154	Roy St ROW	04/30/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	4.46	0.412 U	0.0940 U	0.230 J	0.164 U	0.123 U	0.0739 U	0.124 U	7.48	0.316 U
		01/21/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.70	0.412 U	0.0940 U	0.330 J	0.164 U	0.123 U	0.0739 U	0.124 U	3.52	0.316 U
MW-155	Roy Street ROW	04/27/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	3.48	0.412 U	0.0940 U	0.334 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.447 J	0.316 U
		01/21/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	3.72	0.412 U	0.0940 U	0.581	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW-159	8th Ave N ROW	04/26/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.964	0.412 U	0.0940 U	0.358 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		01/21/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.666	0.316 U
MW-214 (dup) (dry)	Valley Street ROW	03/30/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		03/30/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/21/17	Peristaltic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		04/09/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.725	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW-8 (dry)	800 Aloha Street Parcel	03/20/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.195 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/27/17	Peristaltic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		04/13/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.341 J	0.162 U	0.117 U	0.570	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																						
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane	
Screening Level				800	7,200	0.5	400	800	800	800	130	-	80	-	420	8.10	7.68	0.38	7	16	100	0.71	-	29	480	
MW-9 (dup)	8th Ave N ROW	03/20/17	Peristaltic	52.8 J	4.08 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.140 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.311 J	
		06/20/17	Peristaltic	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.214 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/20/17	Peristaltic	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.211 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/05/18	Peristaltic	32.9 J	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.246 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
N7	Property	03/30/17	Peristaltic	-	2.16 U	0.178 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.773 J	125	0.396 J	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/27/17	Peristaltic	-	1.41 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.313 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.00	153	0.955 J	0.190 U	0.0924 U	0.158 U	0.305 U	
R-MW2	Property	03/21/17	Peristaltic	-	3.29 U	0.272 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.341 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/15/17	Peristaltic	-	1.48 J	0.694 J	0.143 U	0.180 J	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.199 J	0.188 U	0.682 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/02/18	Peristaltic	38.0 U	3.51 J	0.568 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.141 J	0.188 U	2.48	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
R-MW3	Property	03/21/17	Peristaltic	31.6 U	14.3 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.575	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/28/17	Peristaltic	31.6 U	5.00 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.735	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/04/18	Peristaltic	33.7 J	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.35	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
R-MW5	Dexter Ave N ROW	03/23/17	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/16/17	Bladder	-	1.05 UJ	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/11/18	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/03/19	Peristaltic	81.5 J	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.092 U	0.158 U	0.305 U	
R-MW6	8th Ave N ROW	03/21/17	Peristaltic	42.8 J	3.14 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.977	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	20.0	0.242 J	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/20/17	Peristaltic	38.5 J	1.05 U	0.167 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.337 J	37.3	0.445 J	0.190 U	0.0924 U	0.158 U	0.305 U
		04/06/18	Peristaltic	31.6 U	1.55 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.347 J	19.4	0.277 J	0.190 U	0.0924 U	0.158 U	0.305 U
		01/25/19	Peristaltic	-	1.05 U	0.142 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.310 J	12.5	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
SCL-MW101	Alley Between 8th & 9th Ave	03/28/17	Peristaltic	-	1.05 U	6.74	7.17	7.33	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.598	0.612 J	
		06/14/17	Peristaltic	-	1.05 U	18.6	6.97	8.01	0.219 J	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	17.1	3.39 J	
		04/06/18	Peristaltic	-	1.05 U	10.6	8.28	10.1	0.248 J	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	11.7	4.87 J	
SCL-MW105	Alley Between 8th & 9th Ave	03/28/17	Peristaltic	-	5.25 U	257	4.61	3.67	0.915 U	0.505 U	0.700 U	0.705 U	20.9	0.765 U	0.505 U	0.605 U	0.570 U	0.540 U	0.940 U	0.466 U	0.760 U	0.950 U	0.462 U	26.5	58.6	
		06/15/17	Peristaltic	-	1.05 UJ	208	4.77	4.25	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	109	65.1	
		04/06/18	Peristaltic	-	10.5 U	181	1.43	2.31 J	1.83 U	1.01 U	1.40 U	1.41 U	0.860 U	1.53 U	1.01 U	1.21 U	1.14 U	1.08 U	1.88 U	0.933 U	1.52 U	1.90 U	0.924 U	26.6	36.9 J	
SCS-2	800 Aloha Street Parcel	03/20/17	Peristaltic	1,660	78.8	51.8	2.49	2.02	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	1.41	155	3.96	
		06/12/17	Peristaltic	901	7.95 J	58.9	1.97	1.78	0.183 U	0.147 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	1.07	141	4.86 J	
		04/13/18	Peristaltic	-	24.1 J	44.3	0.143 U	2.09	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.759	37.3	12.5 J	
SMW-3	Valley Street ROW	03/30/17	Peristaltic	-	1.40 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/21/17	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/09/18	Peristaltic	-	1.05 UJ	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
<b>Intermediate A Water-Bearing Zone</b>																										
BB-8 (dup)	Roy Street ROW	03/22/17	Peristaltic	-	2.52 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	3.10	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/14/17	Peristaltic	-	1.50 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	12.6	0.155 J	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/11/18	Peristaltic	40.9 U	1.16 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	4.64 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/23/19	Peristaltic	99.6 J	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.403 J	81.5	0.402 J	0.190 U	0.0924 U	0.158 U	0.305 U
GEI-1	Block 37	03/24/17	Peristaltic	-	2.90 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/13/17	Bladder	-	1.05 UJ	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.244 J	0.305 U	
MW107	8th Ave N ROW	03/27/17	Peristaltic	-	11.0 J	0.204 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.406 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.1								

Table C-7

Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																		
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,3,5-TMB	1,3,5-TMB	VC	Total Xylenes
Screening Level				800	-	4,800	4.6	640	24.3	160	800	1,600	2.4	72	200	1	240,000	-	-	80	0.2	10,000
MW-9 (dup)	8th Ave N ROW	03/20/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.324 J	0.316 U
		06/20/17	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.562	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/20/17	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.548	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/05/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	1.58	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.210 J	0.316 U
		01/21/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
N7	Property	03/30/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.189 U	0.162 U	0.117 U	280	0.412 U	0.0940 U	50.4	0.164 U	0.123 U	0.0739 U	0.124 U	0.310 J	0.316 U
		06/27/17	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	205	0.412 U	0.0940 U	85.1	0.164 U	0.123 U	0.0739 U	0.124 U	0.386 J	0.316 U
R-MW2	Property	03/21/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.522	0.316 U
		06/15/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.609	0.316 U
		04/02/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.866	0.412 U	0.0940 U	0.620	0.164 U	0.123 U	0.0739 U	0.124 U	1.33	0.316 U
R-MW3	Property	03/21/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.38	0.412 U	0.0940 U	0.714	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/28/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.834	0.412 U	0.0940 U	0.582	0.164 U	0.123 U	0.0739 U	0.124 U	0.424 J	0.316 U
		04/04/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	16.4	0.412 U	0.0940 U	0.972	0.164 U	0.123 U	0.0739 U	0.124 U	0.214 J	0.316 U
R-MW5	Dexter Ave N ROW	03/23/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.338 J	0.412 U	0.0940 U	0.186 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/16/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.257 J	0.412 U	0.0940 U	0.245 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/11/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	0.621	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		01/03/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.477 J	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
R-MW6	8th Ave N ROW	03/21/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.08	0.412 U	0.0940 U	3.17	0.164 U	0.123 U	0.0739 U	0.124 U	8.65	0.316 U
		06/20/17	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 UJ	0.162 U	0.117 U	1.19	0.619	0.0940 U	0.878	0.164 U	0.123 U	0.0739 U	0.124 U	43.9	0.316 U
		04/06/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.85	0.412 U	0.0940 U	2.24	0.164 U	0.123 U	0.0739 U	0.124 U	26.9	0.316 U
		01/25/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.328 J	0.412 U	0.0940 U	1.07	0.164 U	0.123 U	0.0739 U	0.124 U	9.14	0.316 U
SCL-MW101	Alley Between 8th & 9th Ave	03/28/17	Peristaltic	19.3	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	2.09	62.7	0.117 U	0.199 U	0.624 U	0.0940 U	0.153 U	0.164 U	4.84	1.50	0.124 U	0.118 U	2.08
		06/14/17	Peristaltic	29.9	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	4.76	75.3	0.117 U	0.199 U	1.68	0.0940 U	0.153 U	0.164 U	1.12	2.03	0.185 J	0.118 U	3.50
		04/06/18	Peristaltic	29.7	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	6.70	92.3	0.117 U	0.199 U	1.24	0.0940 U	0.153 U	0.164 U	1.70	3.51	0.124 U	0.118 U	3.32
SCL-MW105	Alley Between 8th & 9th Ave	03/28/17	Peristaltic	66.9	0.915 J	6.40 U	5.35 U	4.12 U	0.510 U	3.64	134	0.585 U	0.995 U	16.3	0.470 U	0.765 U	0.820 U	0.615 U	8.81	3.51	0.590 U	33.9
		06/15/17	Peristaltic	67.3	1.08	1.28 U	1.07 U	0.823 U	0.102 U	5.20	126	0.117 U	0.199 U	14.3	0.0940 U	0.153 U	0.164 U	0.562	9.29	3.45	0.118 U	40.8
		04/06/18	Peristaltic	53.2	1.38 U	12.8 U	10.7 U	8.23 U	1.02 U	4.50 U	88.0	1.17 U	1.99 U	12.1	0.940 U	1.53 U	1.64 U	1.23 U	7.86	2.77 J	1.18 U	28.4
SCS-2	800 Aloha Street Parcel	03/20/17	Peristaltic	19.0	0.379 J	1.28 U	1.07 U	0.823 U	0.102 U	61.8 J	43.9	0.117 U	0.199 U	9.54	0.0940 U	0.153 U	0.164 U	60.3	59.3	5.36	0.118 U	181
		06/12/17	Peristaltic	16.3	0.298 J	1.28 U	1.07 U	0.823 U	0.102 U	54.3	34.2	0.117 U	0.199 U	4.49	0.0940 U	0.153 U	0.164 U	41.7	51.2	2.83	0.118 U	70.4
		04/13/18	Peristaltic	15.6	0.547	1.28 UJ	1.07 U	0.823 U	0.102 U	21.2	23.8	0.117 U	0.199 U	5.18	0.0940 U	0.153 U	0.164 U	23.3	12.5	2.65	0.118 U	47.7
SMW-3	Valley Street ROW	03/30/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 UJ	0.316 U
		06/21/17	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 UJ	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/09/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
Intermediate A Water-Bearing Zone																						
BB-8 (dup)	Roy Street ROW	03/22/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	30.4	0.412 U	0.0940 U	4.95	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/14/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.184 J	0.162 U	0.117 U	26.0	0.412 U	0.0940 U	8.57	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/11/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	33.7 J	0.412 U	0.0940 U	6.13 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/11/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	46.8 J	0.412 U	0.0940 U	8.41 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		01/23/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	133	0.412 U	0.0940 U	43.1	0.164 U	0.123 U	0.0739 U	0.124 U	0.618	0.316 U
GEI-1	Block 37	03/24/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.207 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/13/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	1.02 J	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.200 J	0.200 J	0.124 U	0.118 U	0.316 U
MW107	8th Ave N ROW	03/27/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.224 J	0.690 J	0.0940 U	0.370 J	0.164 U	0.123 U	0.0739 U	0.124 U	34.5	0.316 U
		06/19/17	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.700	0.0940 U	0.290 J	0.164 U	0.123 U	0.0739 U	0.124 U	15.0	0.316 U
		04/09/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.879 J-	0.412 U	0.0940 U	0.581 J-	0.164 U	0.123 U	0.0739 U	0.124 U	123	0.316 U
		01/30/19	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.715 J+	0.0940 U	41.1	0.164 U	0.123 U	0.0739 UJ	0.124 U	474	0.316 U



Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																						
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane	
Screening Level				800	7,200	0.5	400	800	800	800	130	-	80	-	420	8.10	7.68	0.38	7	16	100	0.71	-	29	480	
MW108 (dup)	Alley Between 8th & 9th Ave MW902-040618	03/28/17	Peristaltic	-	1.40 J	1.59 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.588	278	0.899	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/27/17	Bladder	-	2.03 J	1.26 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.512	165	0.748	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/06/18	Peristaltic	-	1.16 U	4.00	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.595 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	11.9	1,030	7.13	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/22/19	Peristaltic	-	1.11 U	3.83	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	11.2	1,020	7.91	0.190 U	0.0924 U	0.158 U	0.305 U	
MW109	Alley Between 8th & 9th Ave	03/29/17	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	12.6	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/27/17	Bladder	-	1.20 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.583	163	1.17	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/06/18	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.21	629	3.34	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/23/19	Peristaltic	-	1.54 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.739	403	2.08	0.190 U	0.0924 U	0.158 U	0.305 U	
MW110 (dup)	Alley Between 8th & 9th Ave	03/23/17	Peristaltic	-	2.62 U	0.330 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	5.23	644	4.72	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/27/17	Bladder	-	2.62 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	5.30	1,120	2.66	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/09/18	Bladder	-	1.55 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	5.17	675 J-	3.72	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/23/19	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	6.44	673	5.83	0.190 U	0.0924 U	0.158 U	0.305 U	
MW115	9th Ave N ROW	03/22/17	Peristaltic	-	2.67 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.643	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/22/17	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.523	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/11/18	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.272 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/30/19	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.316 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW116	9th Ave N ROW	03/21/17	Peristaltic	-	3.32 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/16/17	Bladder	-	1.05 UJ	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/11/18	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/30/19	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.655	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW119	9th Ave N ROW	03/29/17	Peristaltic	-	1.28 J	0.139 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	42.9	0.334 J	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/28/17	Bladder	-	3.73 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	5.99	0.167 J	0.190 U	0.0924 U	0.158 U	0.305 U	
		04/05/18	Peristaltic	-	2.04 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	18.3	0.203 J	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/21/19	Peristaltic	-	4.46 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW120	8th Ave N ROW	03/28/17	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.303 J	18.4	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/28/17	Bladder	-	3.40 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.211 J	0.251 J	16.0	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/09/18	Peristaltic	31.6 U	1.83 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.811	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/24/19	Peristaltic	105 J+z	1.05 UJ	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.883	60.5	0.194 J	0.756	0.0924 U	0.158 U	0.305 U	
MW131	Property	03/27/17	Peristaltic	91.9 J	1.93 J	0.199 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.462 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	243	0.981	0.190 U	0.0924 U	0.158 U	0.305 U	
		06/20/17	Peristaltic	31.6 U	5.25 U	0.448 U	0.715 U	0.670 U	0.915 U	0.505 U	0.140 U	0.705 U	0.430 U	0.765 U	0.505 U	0.605 U	0.570 U	0.540 UJ	0.940 U	2.55	0.760 U	0.950 U	0.462 UJ	0.790 U	1.52 U	
		04/16/18	Peristaltic	55.3 U	58.4	0.142 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	10.4	0.276 J	0.190 U	0.0924 U	0.158 U	0.305 U	
		10/25/18	Peristaltic	57.6 U	6.30 J	0.0896 U	0.143 UJ	0.134 U	0.183 U	0.152 J	0.140 U	0.141 UJ	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 UJ	0.188 U	1.65 J+	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		12/12/18	Peristaltic	31.6 U	8.19 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	6.51	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.2	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW-142 (dup)	8th Ave N ROW	04/27/18	Peristaltic	49.3 U	1.40 J	0.514	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.244 J	46.1	0.474 J	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/28/19	Peristaltic	31.6 U	6.98 U	0.442 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	5.62	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/28/19	Peristaltic	31.6 U	8.44 U	0.410 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	5.67	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
MW-144	8th Ave N ROW	04/27/18	Peristaltic	364 J	2.44 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.15	662	4.65	0.190 U	0.0924 U	0.158 U	0.305 U	
		01/28/19	Peristaltic	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.716	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	10.4	0.489 J	0.190 U	0.0924 U	0.158 U	0.305 U	
MW-146	Roy St ROW	04/30/18	Bladder	597	4.54 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	1.05 J	0.0860 U	0.153 U	0.101 U	0.121 U	0									

Table C-7

Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																			
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,3,5-TMB	1,3,5-TMB	VC	Total Xylenes	
Screening Level				800	-	4,800	4.6	640	24.3	160	800	1,600	2.4	72	200	1	240,000	-	-	80	0.2	10,000	
MW108 (dup)	Alley Between 8th & 9th Ave MW902-040618	03/28/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	73.1	0.479 U	0.0940 U	12.5	0.164 U	0.123 U	0.0739 U	0.124 U	52.3	0.316 U	
		06/27/17	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	194	0.479 U	0.0940 U	22.1	0.164 U	0.123 U	0.0739 U	0.124 U	52.8	0.316 U	
		04/06/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1,970	0.599	0.0940 U	284	0.164 U	0.123 U	0.0739 U	0.124 U	217	0.316 U	
		01/22/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1,980	0.597	0.0940 U	287	0.164 U	0.123 U	0.0739 U	0.124 U	231	0.316 U	
MW109	Alley Between 8th & 9th Ave	03/29/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.198 J	0.164 U	0.123 U	0.0739 U	0.124 U	3.49	0.316 U	
		06/27/17	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	9.69 J	0.412 U	0.0940 U	141	0.164 U	0.123 U	0.0739 U	0.124 U	6.06	0.316 U	
		04/06/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.99 UJ	0.412 U	0.0940 U	210	0.164 U	0.123 U	0.0739 U	0.124 U	42.2	0.316 U	
		01/23/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.995 U	0.412 U	0.0940 U	43.8	0.164 U	0.123 U	0.0739 U	0.124 U	36.8	0.316 U	
MW110 (dup)	Alley Between 8th & 9th Ave	03/23/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1,070	0.412 U	0.0940 U	389	0.164 U	0.123 U	0.0739 U	0.124 U	1.45	0.316 U	
		06/27/17	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	259	0.412 U	0.0940 U	176	0.164 U	0.123 U	0.0739 U	0.124 U	152	0.316 U	
		04/09/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.164 J	375 J-	0.412 U	0.0940 U	253 J-	0.164 U	0.123 U	0.0739 U	0.124 U	3.54	0.316 U
		01/23/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1,260	0.412 U	0.0940 U	490	0.164 U	0.123 U	0.0739 U	0.124 U	1.39	0.316 U	
MW115	9th Ave N ROW	03/22/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	15.7	0.316 U	
		06/22/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	8.45	0.316 U	
		04/11/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	5.81	0.316 U	
		01/30/19	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	12.4	0.316 U	
MW116	9th Ave N ROW	03/21/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		06/16/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.303 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		04/11/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		01/30/19	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	0.118 U	0.316 U	
MW119	9th Ave N ROW	03/29/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	5.47	0.412 U	0.0940 U	10.7	0.164 U	0.123 U	0.0739 U	0.124 U	0.272 J	0.316 U	
		06/28/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	19.0	0.726	0.0940 U	12.4	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.562 J	
		04/05/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	2.14	0.412 U	0.0940 U	3.02	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		01/21/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.24	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
MW120	8th Ave N ROW	03/28/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	13.9	0.458 U	0.277 J	5.81	0.417 J	0.123 U	0.0739 U	0.124 U	0.871	0.316 U	
		06/28/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.384 J	0.162 U	0.117 U	18.0	0.412 U	0.278 J	6.97	0.418 J	0.123 U	0.0739 U	0.124 U	0.988	0.316 U	
		04/09/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.501	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		01/24/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	125	0.412 U	0.255 J	34.3	0.394 J	0.123 U	0.0739 UJ	0.124 U	1.64	0.316 U	
MW131	Property	03/27/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.462 J	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	804	0.316 U	
		06/20/17	Peristaltic	0.630 U	0.690 U	6.40 UJ	5.35 U	4.12 U	0.510 U	0.870 UJ	0.810 U	0.585 U	0.995 U	2.06 U	0.0940 U	0.765 U	0.820 U	0.615 U	0.370 U	0.620 U	435	1.58 U	
		04/16/18	Peristaltic	0.126 U	0.138 U	13.2	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	7.05	0.412 U	0.0940 U	3.25	0.164 U	0.123 U	0.0739 U	0.124 U	18.0	0.316 U	
		10/25/18	Peristaltic	0.126 U	0.138 U	2.26 J	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.895	0.412 U	0.0940 U	0.347 J	0.164 U	0.123 U	0.0739 U	0.124 U	1.83	0.316 U	
		12/12/18	Peristaltic	0.126 U	0.138 U	3.89 J	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.172 J	0.164 U	0.123 U	0.0739 U	0.124 U	1.39	0.316 U	
MW-142 (dup)	8th Ave N ROW	01/29/19	Peristaltic	0.126 U	0.138 U	3.81 J	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.516 J+	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	0.539	0.316 U	
		04/27/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.523	0.412 U	0.0940 U	1.40	0.164 U	0.123 U	0.0739 U	0.124 U	17.2 J	0.316 U	
		01/28/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	3.45	0.316 U	
		01/28/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.208 J	0.164 U	0.123 U	0.0739 UJ	0.124 U	3.38	0.316 U	
MW-144	8th Ave N ROW	04/27/18	Peristaltic	0.126 U	0.138 U	3.85 J	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.86	1.40	0.0940 U	3.31	0.164 U	0.145 J	0.0739 U	0.124 U	888	0.316 U	
		01/28/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.251 J	0.164 U	0.123 U	0.0739 UJ	0.124 U	40.4	0.316 U	
MW-146	Roy St ROW	04/30/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	3.56	0.412 U	0.0940 U	48.4	0.164 U	0.123 U	0.0739 U	0.124 U	2,100	0.316 U	
		01/22/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	2.29	0.412 U	0.0940 U	21.6	0.164 U	0.123 U	0.0739 U	0.124 U	1,370	0.316 U	

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																							
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane		
<b>Screening Level</b>				<b>800</b>	<b>7,200</b>	<b>0.5</b>	<b>400</b>	<b>800</b>	<b>800</b>	<b>800</b>	<b>130</b>	-	<b>80</b>	-	<b>420</b>	<b>8.10</b>	<b>7.68</b>	<b>0.38</b>	<b>7</b>	<b>16</b>	<b>100</b>	<b>0.71</b>	-	<b>29</b>	<b>480</b>		
MW-149 (dup)	Property	04/10/18	Peristaltic	11,700 z	5.25 U	44.8 U	0.715 U	0.670 U	0.915 U	0.505 UJ	0.700 U	28.8	0.430 U	0.765 U	0.505 U	0.605 U	0.570 U	0.540 U	35.5	10,500	29.8	0.950 U	0.462 U	0.813 J	1.52 UJ		
		10/25/18	Peristaltic	4,570	1.71 J	0.0896 U	0.143 UJ	0.134 U	0.183 U	0.181 J	0.140 U	14.2 J	0.395 J	30.6 U	0.101 U	0.121 U	0.114 U	0.108 UJ	25.7	3,320	15.3	0.190 U	0.0924 U	0.158 U	0.305 U		
		12/13/18	Peristaltic	11,400	525 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	10.3	0.776	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	30.4	5,150	18.2	0.190 U	0.0924 U	0.158 U	0.305 U		
		12/13/18	Peristaltic	11,400	525 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	10.6	0.747	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	31.1	5,210	18.2	0.190 U	0.0924 U	0.158 U	0.305 U		
		01/29/19	Peristaltic	14,400 J+z	105 U	8.96 U	14.3 U	13.4 U	18.3 U	10.1 U	14.0 U	14.1 U	8.60 U	15.3 U	10.1 U	12.1 U	11.4 U	10.8 U	18.8 U	4,350	15.2 U	19.0 U	9.24 U	15.8 U	30.5 U		
MW-151	Property	04/10/18	Peristaltic	74.6 U	52.0 J-	0.253 J	0.143 UJ	0.134 UJ	0.183 UJ	1.15 J-	0.140 UJ	0.141 UJ	0.0860 UJ	0.153 UJ	0.101 UJ	0.121 UJ	0.114 UJ	0.108 UJ	0.188 UJ	59.1 J-	0.388 J-	0.190 UJ	0.0924 UJ	0.158 UJ	0.305 UJ		
		10/25/18	Peristaltic	99.4 U	107 J	0.167 J	0.143 UJ	0.134 U	0.183 U	9.13	0.140 U	0.141 UJ	1.02	0.153 U	0.101 U	0.121 U	0.114 U	0.108 UJ	0.188 U	5.80	0.346 J	0.190 U	0.0924 U	0.158 U	0.305 U		
		12/14/18	Peristaltic	1,040	16.6 J	0.342 J	0.143 U	0.134 U	0.183 U	4.43	0.140 U	2.63	0.285 J	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	7.05	1,690	4.56	0.190 U	0.0924 U	0.158 U	0.305 U		
		01/31/19	Peristaltic	340 J+z	14.0 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.344 J	0.140 U	6.11	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	3.15	466	3.52	0.190 U	0.0924 U	0.158 U	0.560 J		
MW-156	8th Ave N ROW	04/26/18	Peristaltic	1,690 z	3.25 U	0.283 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	20.7	2,850	9.97	0.190 U	0.0924 U	0.158 U	0.305 U		
		01/24/19	Peristaltic	1,480 J+z	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	14.1	2,050	11.5	0.190 U	0.0924 U	0.158 U	0.305 U		
<b>Intermediate B Water-Bearing Zone</b>																											
MW111	Alley Between 8th & 9th Ave	03/23/17	Peristaltic	-	3.09 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.40	0.152 U	0.190 U	0.0924 U	0.158 U	0.306 J		
		06/14/17	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.24	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		04/06/18	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.201 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	16.5	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		01/23/19	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.70	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
MW112	Dexter Ave N ROW	03/22/17	Bladder	-	2.80 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		06/16/17	Bladder	-	9.22 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		04/12/18	Bladder	31.6 U	6.34 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 UJ	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 UJ	0.158 U	0.305 UJ		
		12/21/18	Bladder	31.6 U	1.50 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
MW126	Alley Between 8th & 9th Ave	03/28/17	Peristaltic	-	1.05 U	0.148 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.826	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.283 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.466 J		
		06/15/17	Bladder	-	1.05 UJ	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		04/06/18	Peristaltic	-	2.06 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.155 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		01/22/19	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
MW130 (dup)	Property	03/29/17	Bladder	8,890 z	23.7 J	1.79 U	2.86 U	2.68 U	3.66 U	2.02 U	2.80 U	2.82 U	1.72 U	3.06 U	2.02 U	2.42 U	2.28 U	2.16 U	102	7,880	39.3	3.80 U	1.85 U	3.16 U	6.10 U		
		06/30/17	Bladder	10,300 Jz	10.5 U	0.896 U	1.43 U	1.34 U	1.83 U	1.01 U	1.40 U	1.41 U	0.860 U	1.53 U	1.01 U	1.21 U	1.14 U	1.08 U	94.3	20,100	55.6	1.90 U	0.924 U	1.58 U	3.05 U		
		06/30/17	Bladder	15,000 Jz	10.5 U	0.896 U	1.43 U	1.34 U	1.83 U	1.01 U	1.40 U	1.41 U	0.860 U	1.53 U	1.01 U	1.21 U	1.14 U	1.08 U	85.0	21,300	57.3	1.90 U	0.924 U	1.58 U	3.05 U		
		05/21/18	Bladder	19,700 z	3.48 J	0.403 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	124	29,500	114	0.190 U	0.0924 U	0.227 J	0.305 U		
		12/17/18	Bladder	16,400	65.0 J	4.48 U	7.15 U	6.70 U	9.15 U	5.74 J	7.00 U	7.05 U	4.30 U	7.65 U	5.05 U	6.05 U	5.70 U	5.40 U	124	26,400	83.5	9.5 U	4.62 U	7.90 U	15.2 U		
		01/31/19	Bladder	22,400 J+z	9.13 J	0.377 J	0.143 U	0.134 U	0.183 U	4.57	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	130	27,700	107	0.190 U	0.0924 U	0.279 J	0.305 U		
MW-132	Property	09/25/17	Bladder	95.9 U	5.91 J	0.448 U	0.715 U	0.670 U	0.915 U	0.505 U	0.700 U	0.705 U	0.430 U	0.765 U	0.505 U	0.605 U	0.570 U	0.540 U	0.940 U	196	0.760 U	0.950 U	0.462 U	0.790 U	1.52 U		
		04/26/18	Bladder	2,630 z	1.05 U	0.422 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	18.1	3,300	16.3	0.190 U	0.0924 U	0.158 U	0.305 U		
		10/25/18	Peristaltic	48.3 U	1.05 UJ	0.0896 U	0.143 UJ	0.134 U	0.183 U	0.101 U	0.140 U	0.141 UJ	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 UJ	0.188 U	12.1	0.254 J	0.190 U	0.0924 U	0.158 U	0.305 U		
		12/13/18	Peristaltic	31.6 U	5.25 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.450 J	39.8	0.497 J	0.190 U	0.0924 U	0.158 U	0.305 U		
		01/31/19	Peristaltic	104 J+z	7.79 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.366 J	108	0.506	0.190 U	0.0924 U	0.158 U	0.305 U		
MW-134	Property	09/22/17	Bladder	-	5.64 U	0.448 U	0.715 U	0.670 U	0.915 U	0.505 U	0.700 U	0.705 U	0.430 U	0.765 U	0.505 U	0.605 U	0.570 U	0.540 U	0.940 U	86.2	0.760 U	0.950 U	0.462 U	0.790 U	1.52 U		
		04/16/18	Peristaltic	42.1 U	3.11 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.874	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.287 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		10/25/18	Bladder	38.2 U	1.05 UJ	0.0896 U	0.143 UJ	0.134 U	0.183 U	0.101 U	0.140 U	0.141 UJ	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 UJ	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		12/12/18	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.259 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
		01/28/19	Bladder	31.6 U	7.59 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.609	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																		
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,3,5-TMB	1,3,5-TMB	VC	Total Xylenes
<b>Screening Level</b>				<b>800</b>	<b>-</b>	<b>4,800</b>	<b>4.6</b>	<b>640</b>	<b>24.3</b>	<b>160</b>	<b>800</b>	<b>1,600</b>	<b>2.4</b>	<b>72</b>	<b>200</b>	<b>1</b>	<b>240,000</b>	<b>-</b>	<b>-</b>	<b>80</b>	<b>0.2</b>	<b>10,000</b>
MW-149  (dup)	Property	04/10/18	Peristaltic	0.630 U	0.690 U	6.40 U	5.35 U	4.12 U	0.510 U	0.870 U	0.810 UJ	0.585 UJ	<b>19,200</b>	2.06 U	0.470 U	<b>8,050</b>	0.820 U	<b>1.37 J</b>	<b>0.465 J</b>	0.620 U	<b>863</b>	<b>1.64 J</b>
		10/25/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	<b>6,100</b>	0.412 U	0.0940 U	<b>2,720</b>	0.164 U	<b>0.139 J</b>	0.0739 U	0.124 U	<b>100</b>	0.316 U
		12/13/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	<b>0.164 J</b>	0.117 U	<b>23,300</b>	<b>0.717</b>	0.0940 U	<b>5,470</b>	0.164 U	<b>0.451 J</b>	<b>0.178 J</b>	<b>0.144 J</b>	<b>253</b>	<b>0.414 J</b>
		12/13/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	<b>0.164 J</b>	0.117 U	<b>24,500</b>	<b>0.717</b>	0.0940 U	<b>5,780</b>	0.164 U	<b>0.476 J</b>	<b>0.182 J</b>	0.124 U	<b>243</b>	<b>J</b>
		01/29/19	Peristaltic	12.6 U	13.8 U	128 UJ	107 U	82.3 U	10.2 U	17.4 UJ	16.2 U	11.7 U	<b>23,700</b>	41.2 U	9.40 U	<b>3,800</b>	16.4 U	12.3 U	7.39 UJ	12.4 U	<b>155</b>	31.6 U
MW-151	Property	04/10/18	Peristaltic	0.126 UJ	0.138 UJ	<b>9.14 J-</b>	1.07 UJ	0.823 UJ	0.102 UJ	0.174 UJ	0.162 UJ	0.117 UJ	<b>1.13</b>	0.412 UJ	0.0940 UJ	<b>0.310 J</b>	0.164 UJ	0.123 UJ	0.0739 UJ	0.124 UJ	<b>11.4</b>	0.316 U
		10/25/18	Peristaltic	0.126 U	0.138 U	<b>31.7 J</b>	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	<b>2.28</b>	0.412 U	0.0940 U	<b>1.38</b>	0.164 U	0.123 U	0.0739 U	0.124 U	<b>7.7</b>	0.316 U
		12/14/18	Peristaltic	0.126 U	0.138 U	<b>4.26 J</b>	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	<b>1,460</b>	<b>0.44 J</b>	0.0940 U	<b>155</b>	0.164 U	0.123 U	0.0739 U	0.124 U	<b>530</b>	0.316 U
		01/31/19	Peristaltic	0.126 U	0.138 U	<b>1.71 J</b>	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	<b>106</b>	0.412 U	0.0940 U	<b>40.4</b>	0.164 U	0.123 U	0.0739 U	0.124 U	<b>158</b>	0.316 U
		MW-156	8th Ave N ROW	04/26/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	9.95 UJ	<b>0.479 J</b>	0.0940 U	<b>581</b>	0.164 U	0.123 U	0.0739 U	0.124 U
		01/24/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	<b>1,720</b>	0.412 U	0.0940 U	<b>723</b>	0.164 U	0.123 U	0.0739 UJ	0.124 U	11.8 U	0.316 U
<b>Intermediate B Water-Bearing Zone</b>																						
MW111	Alley Between 8th & 9th Ave	03/23/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	<b>5.22</b>	0.316 U
		06/14/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	<b>0.408 J</b>	0.164 U	0.123 U	0.0739 U	0.124 U	<b>3.22</b>	0.316 U
		04/06/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	<b>0.618</b>	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	<b>121</b>	0.316 U
		01/23/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	<b>0.492 J</b>	0.412 U	0.0940 U	<b>0.176 J</b>	0.164 U	0.123 U	0.0739 U	0.124 U	<b>37.6</b>	0.316 U
MW112	Dexter Ave N ROW	03/22/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/16/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	<b>8.50</b>	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/12/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	<b>2.35 J+</b>	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		12/21/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	<b>1.06 J</b>	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW126	Alley Between 8th & 9th Ave	03/28/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.563 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/15/17	Bladder	<b>0.245 J</b>	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	<b>0.636</b>	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/06/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		01/22/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW130  (dup)	Property	03/29/17	Bladder	2.52 U	2.76 U	25.6 U	21.4 U	16.5 U	2.04 U	3.48 U	3.24 U	2.34 U	<b>721</b>	8.24 U	1.88 U	<b>830</b>	3.28 U	2.46 U	1.48 U	12.9 U	<b>186</b>	6.32 U
		06/30/17	Bladder	1.26 U	1.38 U	12.8 U	10.7 U	8.23 U	1.02 U	1.74 U	1.62 U	1.17 U	<b>6,760 J</b>	4.12 U	0.940 U	<b>4,020</b>	1.64 U	1.23 U	0.739 U	1.24 U	<b>597</b>	3.16 U
		06/30/17	Bladder	1.26 U	1.38 U	12.8 U	10.7 U	8.23 U	1.02 U	1.74 U	1.62 U	1.17 U	<b>11,100 J</b>	4.12 U	0.940 U	<b>5,310</b>	1.64 U	1.23 U	0.739 U	1.24 U	<b>549</b>	3.16 U
		05/21/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	<b>0.241 J</b>	0.162 U	0.117 U	<b>13,500</b>	<b>1.37</b>	0.0940 U	<b>7,400</b>	0.164 U	<b>0.816</b>	<b>0.502</b>	<b>0.303 J</b>	<b>1,650</b>	<b>1.12 J</b>
		12/17/18	Bladder	6.30 U	6.90 U	64.0 U	53.5 U	41.2 U	5.10 U	8.70 U	8.10 U	5.85 U	<b>9,650</b>	20.6 U	4.70 U	<b>3,220</b>	8.20 U	6.15 U	3.70 U	6.20 U	<b>1,420</b>	15.8 U
		01/31/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	<b>0.204 J</b>	0.162 U	0.117 U	<b>23,700</b>	<b>1.51 J+</b>	0.0940 U	<b>4,640</b>	0.164 U	<b>1.09</b>	<b>0.622</b>	<b>0.394 J</b>	<b>1,740</b>	<b>1.22 J</b>
MW-132	Property	09/25/17	Bladder	0.630 U	0.690 U	6.40 U	5.35 U	4.12 U	0.510 U	0.870 U	0.810 U	0.585 U	0.995 U	2.06 U	0.470 U	<b>1.95 J</b>	0.820 U	0.615 U	0.370 U	0.620 U	<b>1.76 J</b>	1.58 U
		04/26/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	<b>2,830</b>	0.412 U	0.0940 U	<b>840</b>	0.164 U	0.123 U	0.0739 U	0.124 U	<b>10.2</b>	0.32 U
		10/25/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	<b>3.53</b>	0.412 U	0.0940 U	<b>0.75</b>	0.164 U	0.123 U	0.0739 U	0.124 U	<b>158</b>	0.316 U
		12/13/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.995 U	0.412 U	0.0940 U	0.765 U	0.164 U	0.123 U	0.0739 U	0.124 U	<b>199</b>	0.316 U
		01/31/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	<b>22.9</b>	0.412 U	0.0940 U	<b>1.95</b>	0.164 U	0.123 U	0.0739 U	0.124 U	<b>269</b>	0.316 U
MW-134	Property	09/22/17	Bladder	0.630 U	0.690 U	6.40 U	5.35 U	4.12 U	0.510 U	0.870 U	0.810 U	0.585 U	0.995 U	2.06 U	0.470 U	0.765 U	0.820 U	0.615 U	0.370 U	0.620 U	<b>229</b>	1.58 U
		04/16/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	<b>1.49</b>	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	<b>68.6</b>	0.316 U
		10/25/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	<b>20.9</b>	0.316 U
		12/12/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	<b>21.9</b>	0.316 U
		01/28/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	<b>32.4</b>	0.316 U
MW-135	Property	09/25/17	Bladder	12.6 U	13.8 U	128 U	107 U	82.3 U	10.2 U	17.4 U	16.2 U	11.7 U	<b>10,400</b>	41.2 U	9.40 U	<b>2,480</b>	16.4 U	12.3 U	7.39 U	12.4 U	<b>82.0 J</b>	31.6 U
		04/25/18	Peristaltic	<b>0.145 J</b>	0.138 U	<b>2.24 J</b>	1.07 U	0.823 U	0.102 U	<b>0.469 J</b>	<b>0.348 J</b>	0.117 U	<b>75,800</b>	<b>3.09</b>	0.0940 U	<b>7,890</b>	0.164 U	<b>2.26</b>	<b>1.12</b>	<b>0.708</b>	<b>989</b>	<b>2.61</b>
		10/25/18	Peristaltic	3.15 U	3.45 U	32.0 UJ	26.8 U	20.6 U	2.55 U	4.35 UJ	4.05 U	2.92 U	<b>45,900</b>	10.3 U	2.35 U	<b>8,330</b>	4.10 U	3.08 U	1.85 U	3.10 U	<b>1,170</b>	7.90 U
		12/13/18	Peristaltic	6.30 U	6.90 U	64.0 U	53.5 U	41.2 U	5.10 U	8.70 U	8.10 U	5.85 U	<b>97,200</b>	20.6 U	4.70 U	<b>11,000</b>	8.20 U	6.15 U	3.70 U	6.20 U	<b>1,3</b>	

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																					
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane
Screening Level				800	7,200	0.5	400	800	800	800	130	-	80	-	420	8.10	7.68	0.38	7	16	100	0.71	-	29	480
MW-136	Property	09/25/17	Bladder	55.2 U	7.30 J	0.332 J	0.143 U	0.134 U	0.183 U	0.685	0.140 U	0.141 U	0.198 J	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	18.7	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/16/18	Submersible	256	14.5 J	0.260 J	0.143 U	0.175 J	0.183 U	0.378 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	4.73	0.152 U	0.190 U	0.0924 U	4.83	0.305 U
		10/29/18	Bladder	31.9 U	1.75 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.44	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		12/13/18	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.962	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		02/01/19	Bladder	44.5 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.851	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-139	Property	09/25/17	Bladder	62.2 U	2.87 J	0.0896 U	0.143 U	0.134 U	0.183 U	1.18	0.140 U	0.141 U	1.33	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.42	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/25/18	Peristaltic	31.6 U	4.71 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.175 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		10/25/18	Peristaltic	47.4 U	1.08 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.156 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.454 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		12/12/18	Peristaltic	31.6 U	1.89 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.216 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/28/19	Peristaltic	31.6 U	7.66 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-143	8th Ave N ROW	04/30/18	Peristaltic	154	6.00 J	0.244 J	0.143 U	0.134 U	0.183 U	1.45	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.342 J	129	0.512	0.190 U	0.0924 U	0.212 J	0.305 U
		01/29/19	Bladder	31.6 U	1.05 U	0.141 J	0.143 U	0.134 U	0.183 U	0.226 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.241 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-145	8th Ave N ROW	04/27/18	Bladder	52.6 U	6.71 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	2.29	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/29/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.316 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-147	Roy St ROW	05/01/18	Bladder	484	3.16 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	2.01 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	4.59	399	2.09	0.190 U	0.0924 U	0.158 U	0.305 U
		01/22/19	Bladder	663 J+z	1.51 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	6.83	1,230	2.88	0.190 U	0.0924 U	0.158 U	0.305 U
MW-148 (dup)	Roy St ROW	05/01/18	Bladder	31.6 U	6.56 U	0.0896 U	0.143 U	0.134 U	0.183 U	1.01	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		05/01/18	Bladder	31.6 U	5.73 U	0.0896 U	0.143 U	0.134 U	0.183 U	1.14	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.216 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/23/19	Bladder	31.6 U	1.90 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-150	Property	04/10/18	Peristaltic	7,040 z	1.72 J	2.24 U	0.143 U	0.134 U	0.183 U	1.02 J	0.140 U	4.08	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	36.9	9,710	21.1	0.190 U	0.0924 U	39.5 U	0.305 U
		10/25/18	Peristaltic	14,600	9.83 J	0.413 J	0.143 U	0.134 U	0.183 U	1.76	0.140 U	0.141 U	0.591	76.5 U	0.101 U	0.121 U	0.114 U	0.108 U	61.9	17,700	49.7	0.190 U	0.0924 U	0.226 J	0.305 U
		12/12/18	Peristaltic	17,500	262 U	0.429 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	3.42	0.132 J	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	74.5	32,800	242	0.190 U	0.0924 U	0.158 U	0.305 U
		01/29/19	Peristaltic	11,900 J+z	105 U	8.96 U	14.3 U	13.4 U	18.3 U	10.1 U	14.0 U	14.1 U	8.60 U	15.3 U	10.1 U	12.1 U	11.4 U	10.8 U	35.9 J	18,100	36.7 J	19.0 U	9.24 U	15.8 U	30.5 U
MW-152	Property	04/10/18	Peristaltic	40,600 z	22.5 J	2.24 U	2.86 U	2.68 U	3.66 U	2.02 UJ	2.80 U	2.82 U	1.72 U	3.06 U	2.02 U	2.42 U	2.28 U	2.16 U	107	35,300	42.1	3.80 U	1.85 U	3.27 J	6.10 UJ
		10/26/18	Peristaltic	36,700	65.4 J	4.48 U	7.15 UJ	6.70 U	9.15 U	5.05 U	7.00 U	7.05 UJ	4.46 J	306 U	5.05 U	6.05 U	5.70 U	5.40 UJ	86.9	73,000	109	9.50 U	4.62 U	7.90 U	15.2 U
		12/14/18	Peristaltic	47,300	26.2 U	2.24 U	3.58 U	3.35 U	4.58 U	13.7 J+	3.50 U	3.52 U	2.15 U	3.82 U	2.52 U	3.02 U	2.85 U	2.70 U	108 J+	77,100 J+	134 J+	4.75 U	2.31 U	3.95 U	7.62 U
		01/31/19	Peristaltic	44,300 J+z	30.9	0.416 J	0.143 U	0.134 U	0.183 U	16.4	0.140 U	0.141 U	0.137 J	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	86.3	58,400	101	0.190 U	0.092 U	0.342 J	0.305 U
MW-157	8th Ave N ROW	04/26/18	Peristaltic	65.7 J	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	10.4	0.246 J	0.190 U	0.0924 U	0.158 U	0.305 U
		01/24/19	Peristaltic	1,870 J+z	1.31 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.505 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	16.7	4,250	14.2	0.190 U	0.0924 U	0.158 U
W-MW-01	8th Ave N ROW	03/30/17	Peristaltic	-	1.56 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.491 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		06/19/17	Bladder	-	1.05 U	0.158 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.320 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/13/18	Bladder	37.6 U	1.20 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.184 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.31	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		10/29/18	Bladder	31.6 U	1.39 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.629	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		12/13/18	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.538	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/25/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.459 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
W-MW-02 (dup)	8th Ave N ROW	03/27/17	Peristaltic	-	19.3 J	0.270 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.204 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	33.0	2.16	0.190 U	0.0924 U	0.158 U	0.305 U
		06/19/17	Bladder	-	8.12 J	0.307 J	0.143 U	0.134 U	0.183 U	0.386 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	18.2	0.746	0.190 U	0.0924 U	0.158 U	0.305 U
		06/12/18	Bladder	31.6 U	7.44 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.142 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	4.72	0.279 J	0.190 U	0.0924 U	0.158 U	0.305 U
		10/26/18	Peristaltic	90.2 UJ	1.42 J	0.0896 U	0.143 UJ	0.134 U	0.183 U	0.214 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	2.01	0.410 J	0.190 U	0.0924 U	0.158 U	0.305 U
		10/26																							



Table C-7

Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																			
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,2,3-TMB	1,3,5-TMB	VC	Total Xylenes	
Screening Level				800	-	4,800	4.6	640	24.3	160	800	1,600	2.4	72	200	1	240,000	-	-	80	0.2	10,000	
MW-136	Property	09/25/17	Bladder	0.126 U	0.138 U	1.43 J	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	15.4	0.412 U	0.0940 U	10.7	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		04/16/18	Submersible	0.582	0.573	76.4	1.07 U	0.823 U	0.102 U	1.18 J	2.04	0.117 U	2.59	1.83	0.0940 U	0.365 J	0.164 U	17.4	4.40	5.31	8.57	25.9	
		10/29/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.177 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.236 J	0.316 U	
		12/13/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.237 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		02/01/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.26	0.412 U	0.0940 U	0.293 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.186 J	0.316 U	
MW-139	Property	09/25/17	Bladder	0.126 U	0.138 U	1.28 U	1.10 J	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.516	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.246 J	0.316 U	
		04/25/18	Peristaltic	0.126 U	0.138 U	2.67 J	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		10/25/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	1.29	0.412 U	0.0940 U	0.282 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		12/12/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		01/28/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	0.118 U	0.316 U	
MW-143	8th Ave N ROW	04/30/18	Peristaltic	0.126 U	0.138 U	1.81 J	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.797	0.0940 U	0.153 U	0.164 U	0.482 J	0.192 J	0.173 J	193	1.08 J	
		01/29/19	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	0.118 U	0.316 U	
MW-145	8th Ave N ROW	04/27/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.305 J	0.412 U	0.0940 U	0.212 J	0.164 U	0.123 U	0.0739 U	0.124 U	3.88 J	0.316 U	
		01/29/19	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	0.335 J	0.316 U	
MW-147	Roy St ROW	05/01/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	19.8	0.412 U	0.0940 U	83.4	0.164 U	0.123 U	0.0739 U	0.124 U	1,150	0.316 U	
		01/22/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	98.2	0.412 U	0.0940 U	179	0.164 U	0.123 U	0.0739 U	0.124 U	738	0.316 U	
MW-148 (dup)	Roy St ROW	05/01/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		05/01/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
		01/23/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.24	0.412 U	0.0940 U	0.347 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U	
MW-150	Property	04/10/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	43.5 U	0.162 UJ	0.117 UJ	2,500	1.63	0.0940 U	3,200	0.164 U	0.272 J	0.0739 U	0.124 U	766	79.0 U	
		10/25/18	Peristaltic	0.126 U	0.138 U	3.56 J	1.07 U	0.823 U	0.102 U	0.209 J	0.162 U	0.117 U	15,200	2.53	0.0940 U	8,800	0.164 U	0.576	0.317 J	0.162 J	1,430	1.13 J	
		12/12/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.24 J	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	75.6	1.04	0.0940 U	533	0.164 U	0.123 U	0.0739 U	0.124 U	2,040	0.316 U	
		01/29/19	Peristaltic	12.6 U	13.8 U	128 UJ	107 U	82.3 U	10.2 U	17.4 UJ	16.2 U	11.7 U	303	41.2 U	9.40 U	548	16.4 U	12.3 U	7.39 UJ	12.4 U	1,370	31.6 U	
MW-152	Property	04/10/18	Peristaltic	2.52 U	2.76 U	25.6 U	21.4 U	16.5 U	2.04 U	3.48 U	3.24 UJ	2.34 UJ	67,300	8.24 U	1.88 U	6,550	3.28 U	3.63 J	1.91 J	2.48 U	3,660	790 U	
		10/26/18	Peristaltic	6.30 U	6.9 U	213 J	53.5 U	41.2 U	5.1 U	8.70 UJ	8.1 U	5.85 U	1,960	20.6 U	4.70 U	3,150	8.20 U	6.15 U	3.7 U	6.2 U	4,510	15.8 U	
		12/14/18	Peristaltic	3.15 U	3.45 U	32.0 U	26.8 U	20.6 U	2.55 U	4.35 U	4.05 U	2.92 U	23,600 J+	10.3 U	2.35 U	6,870 J+	4.10 U	3.49 U	1.85 U	3.10 U	7,830 J+	7.90 U	
		01/31/19	Peristaltic	0.126 U	0.196 J	9.01	1.07 U	0.823 U	0.102 U	0.266 J	0.281 J	0.117 U	38,300	2.61 J+	0.0940 U	3,920	0.164 U	2.37	0.932	0.615	9,600	2.10	
MW-157	8th Ave N ROW	04/26/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.950	0.412 U	0.0940 U	0.240 J	0.164 U	0.123 U	0.0739 U	0.124 U	104	0.316 U	
		01/24/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	1.65	0.164 U	0.123 U	0.0739 UJ	0.124 U	674	0.316 U	
W-MW-01	8th Ave N ROW	03/30/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.330 J	0.412 U	0.0940 U	0.203 J	0.164 U	0.123 U	0.0739 U	0.124 U	1.83	0.316 U	
		06/19/17	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.931	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	1.09	0.316 U	
		04/13/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	5.33	0.412 U	0.0940 U	1.68	0.164 U	0.123 U	0.0739 U	0.124 U	8.79	0.316 U	
		10/29/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.242 J	0.22 J	0.412 U	0.0940 U	0.696	0.164 U	0.123 U	0.0739 U	0.124 U	3.9	0.316 U
		12/13/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	1.77	0.164 U	0.123 U	0.0739 U	0.124 U	3.86	0.316 U	
W-MW-02 (dup)	8th Ave N ROW	03/27/17	Peristaltic	0.126 U	0.138 U	13.8	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.961 J	0.0940 U	0.259 J	0.164 U	0.123 U	0.0739 U	0.124 U	36.4	0.316 U	
		06/19/17	Bladder	0.126 U	0.138 U	3.57 J	1.07 U	0.929 J	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.970	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	25.6	0.316 U	
		06/12/18	Bladder	0.126 U	0.138 U	2.73 J	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.829	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	4.95	0.316 U	
		10/26/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.641	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	1.41	0.316 U	
		10/26/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.587	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	1.80	0.316 U	
FMW-129	SDOT Property S of Roy St	04/10/17	Peristaltic	0.630 U	0.690 U	6.40 U	5.35 U	4.12 U	0.510 U	1.42 J	0.810 U	0.585 U	194	2.06 U	0.470 U	492	0.820 U	0.615 U	0.370 U	0.620 U	0.885 J	1.58 U	
		06/23/17	Bladder	0.126 U	0.138 U	1.28 U	5.35 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	81.1	0.412 U	0.0940 U	182	0.164 U	0.123 U	0.0739 U	0.124 U	4.13	0.316 U	

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																					
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane
Screening Level				800	7,200	0.5	400	800	800	800	130	-	80	-	420	8.10	7.68	0.38	7	16	100	0.71	-	29	480
FMW-131	Block 37	03/24/17	Peristaltic	-	2.31 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	45.6	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		06/23/17	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	3.61	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		12/18/17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.61	0.20 U	-	-	-	-
FMW-3D	Block 31	03/24/17	Peristaltic	-	1.89 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		06/23/17	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
GEI-2	Block 37	03/24/17	Peristaltic	-	1.74 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	2.25	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		06/23/17	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	16.3	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW102	Valley Street ROW	03/29/17	Bladder	-	1.36 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.223 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		06/15/17	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/25/18	Bladder	31.6 U	3.43 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/24/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW103	Alley Between 8th & 9th Ave	03/23/17	Peristaltic	-	2.87 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.301 J	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	3.69	240	0.405 J	0.190 U	0.0924 U	0.158 U	0.305 U
		06/14/17	Bladder	-	1.76 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.98	120	0.369 J	0.190 U	0.0924 U	0.158 U	0.305 U
		04/06/18	Peristaltic	-	1.25 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.132 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.396 J	32.4	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/23/19	Peristaltic	-	23.0 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	11.4	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW104	8th Ave N ROW	03/30/17	Peristaltic	-	1.84 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	3.97	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		06/30/17	Bladder	-	1.45 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.387 J	1.54	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/09/18	Peristaltic	81.3 J	3.33 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.147 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.16	176	1.02	0.190 U	0.0924 U	0.158 U	0.305 U
		10/26/18	Bladder	1,570	2.91 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.675	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.374 J	71.2	0.257 J	0.190 U	0.0924 U	0.158 U	0.305 U
		12/13/18	Bladder	54.0 J	2.23 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.243 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.16	48.3	0.559	0.190 U	0.0924 U	0.158 U	0.305 U
MW105	Roy Street ROW	02/01/19	Bladder	191 J+	72.7	0.0896 U	0.143 U	0.134 U	0.183 U	0.179 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.415 J	30.6	0.326 J	0.190 U	0.0924 U	0.158 U	0.305 U
		04/21/17	Bladder	-	1.44 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.192 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.155 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		06/14/17	Bladder	-	1.18 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.180 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/11/18	Bladder	31.6 U	4.51 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.225 J	1.67	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW106	SDOT Property S of Roy St	01/23/19	Bladder	31.6 U	1.73 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.51	0.152 U	0.190 U	0.092 U	0.158 U	0.305 U
		04/14/17	Bladder	-	1.53 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.641	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW113	9th Ave N ROW	06/30/17	Bladder	-	1.65 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		03/22/17	Peristaltic	-	3.28 U	2.60	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	10.7	7,280	25.4	0.240 J	0.0924 U	0.158 U	0.305 U
		06/16/17	Bladder	-	1.90 J	0.468 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	5.93	4,750	28.2	0.190 U	0.0924 U	0.158 U	0.305 U
		04/11/18	Peristaltic	-	1.05 U	0.880	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	7.83	3,720	21.3	0.190 U	0.0924 U	0.158 U	0.305 U
		01/30/19	Peristaltic	-	5.25 U	1.02 J	0.715 U	0.670 U	0.915 U	0.505 U	0.700 U	0.705 U	0.4300 U	0.765 U	0.505 U	0.605 U	0.570 U	0.540 U	8.61	6,330	22.8	0.950 U	0.4620 U	0.790 U	1.52 U
MW122	Alley Between 8th & 9th Ave	02/07/19	Peristaltic	3,100 J+z	2.79 J	0.811	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	9.92	6,990	25.7	0.190 U	0.0924 U	0.158 U	0.305 U
		03/28/17	Peristaltic	-	1.11 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		06/14/17	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/06/18	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW123	Westlake Ave N ROW	04/01/17	Peristaltic	-	2.83 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.141 J	0.158 U	0.305 U
		06/24/17	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/14/18	Peristaltic	-	2.82 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW124 (dup)	Valley Street ROW	03/29/17	Bladder	-	1.35 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	1.37	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.661	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		03/29/17	Bladder	-	1.21 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	1.30	0.153 U</											

Table C-7

Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																		
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,3,5-TMB	VC	Total Xylenes	
Screening Level				800	-	4,800	4.6	640	24.3	160	800	1,600	2.4	72	200	1	240,000	-	-	80	0.2	10,000
FMW-131	Block 37	03/24/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.273 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.249 J	0.316 U
		06/23/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.264 J	0.316 U
		12/18/17	-	-	-	-	-	-	-	-	-	-	0.20 U	-	-	0.20 U	-	-	-	-	0.20 U	-
FMW-3D	Block 31	03/24/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/23/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
GEI-2	Block 37	03/24/17	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.271 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	6.94	0.316 U
		06/23/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	127	0.316 U
MW102	Valley Street ROW	03/29/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/15/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/25/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.352 J	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		01/24/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.22 J	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	0.118 U	0.316 U
MW103	Alley Between 8th & 9th Ave	03/23/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.99 U	0.464 J	0.0940 U	23.1	0.164 U	0.123 U	0.0739 U	0.124 U	157	0.316 U
		06/14/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.626	0.412 U	0.0940 U	23.0	0.164 U	0.123 U	0.0739 U	0.124 U	69.2	0.316 U
		04/06/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	1.81	0.164 U	0.123 U	0.0739 U	0.124 U	22.4	0.316 U
		01/23/19	Peristaltic	0.126 U	0.138 U	8.78	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.365 J	1.35	0.0940 U	1.48	0.164 U	0.123 U	0.0739 U	0.124 U	6.68	0.316 U
MW104	8th Ave N ROW	03/30/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.217 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/30/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	5.83	0.903	0.0940 U	5.21	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.396 J
		04/09/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.541	0.412 U	0.0940 U	2.00	0.164 U	0.123 U	0.0739 U	0.124 U	32.3	0.316 U
		10/26/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	1.87 J+	0.618 J+	0.094 U	2.94 J+	0.164 U	0.123 U	0.0739 U	0.124 U	43.5	0.316 U
		12/13/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.381 J	0.412 U	0.0940 U	2.36	0.164 U	0.123 U	0.0739 U	0.124 U	43.8	0.316 U
		02/01/19	Bladder	0.126 U	0.138 U	68.5	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	12.1	0.412 U	0.0940 U	3.22	0.164 U	0.123 U	0.0739 U	0.124 U	32.4	0.316 U
MW105	Roy Street ROW	04/21/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.544 J	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	1.95	0.316 U
		06/14/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	1.41 J	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.356 J	0.164 U	0.216 J	0.0739 U	0.124 U	0.514	0.316 U
		04/11/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.205 J	0.316 U
		01/23/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.790	0.412 U	0.0940 U	0.317 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.392 J	0.316 U
MW106	SDOT Property S of Roy St	04/14/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/30/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.419 J	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW113	9th Ave N ROW	03/22/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	27.1	0.164 U	0.123 U	0.0739 U	0.124 U	63.5	0.316 U
		06/16/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.522	0.412 U	0.0940 U	148	0.164 U	0.123 U	0.0739 U	0.124 U	53.3	0.316 U
		04/11/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	191	0.412 U	0.0940 U	1,100	0.164 U	0.123 U	0.0739 U	0.124 U	34.9	0.316 U
		01/30/19	Peristaltic	0.630 U	0.690 U	6.40 UJ	5.35 U	4.120 U	0.510 U	0.870 UJ	0.810 U	0.585 U	0.995 U	2.060 U	0.4700 U	2.81	0.620 U	0.615 U	0.370 UJ	0.620 U	34.8	1.58 U
		02/07/19	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	1.77	0.164 U	0.123 U	0.0739 U	0.124 U	46.0	0.316 U
MW122	Alley Between 8th & 9th Ave	03/28/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/14/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.382 J	0.117 U	0.199 U	0.412 U	0.0940 U	0.162 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/06/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW123	Westlake Ave N ROW	04/01/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/24/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/14/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.284 J	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW124 (dup)	Valley Street ROW	03/29/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.60	0.785 U	0.0940 U	0.596	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		03/29/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.22	0.675 U	0.0940 U	0.433	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		06/15/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/13/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW128	Westlake Ave N ROW	03/29/17	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	72.4	0.316 U
		06/21/17	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.541	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	195	0.316 U
		04/09/18	Peristaltic	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U</						

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																					
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane
Screening Level				800	7,200	0.5	400	800	800	800	130	-	80	-	420	8.10	7.68	0.38	7	16	100	0.71	-	29	480
MW-133	Property	09/25/17	Bladder	41.2 U	2.02 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.439 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.87	13.3	1.13	0.190 U	0.0924 U	0.158 U	0.305 U
		04/25/18	Bladder	31.6 U	3.72 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.236 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.899	10.7	0.315 J	0.190 U	0.0924 U	0.158 U	0.305 U
		10/26/18	Bladder	458	1.14 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.205 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.619	7.94	0.257 J	0.190 U	0.0924 U	0.158 U	0.305 U
		12/12/18	Bladder	31.6 U	1.76 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.167	7.88	0.454 J	0.190 U	0.0924 U	0.158 U	0.305 U
		02/01/19	Bladder	46.4 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.94	12.4	0.588	0.190 U	0.0924 U	0.158 U	0.305 U
MW-137	Property	09/25/17	Bladder	58.5 U	2.84 U	0.0896 U	0.143 U	0.134 U	0.183 U	2.27	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	62.0	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/12/18	Bladder	31.6 U	3.31 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.210 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.79	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		10/26/18	Bladder	86.9 U	1.05 UJ	0.0896 U	0.143 U	0.134 U	0.183 U	0.282 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.893 J+	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		12/12/18	Bladder	31.6 U	1.62 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.437 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		02/01/19	Bladder	58.4 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.114 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.616	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-138	Dexter Ave N	09/21/17	Bladder	63.3 J	5.55 J	0.179 U	0.286 U	0.268 U	0.366 U	0.202 U	0.280 U	0.282 U	0.172 U	0.306 U	0.202 U	0.242 U	0.228 U	0.216 U	0.376 U	0.187 U	0.304 U	0.380 U	0.185 U	0.316 U	1.91 J
		04/11/18	Bladder	91.1 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.214 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		10/29/18	Bladder	38.5 U	1.23 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		12/17/18	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.382 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/03/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-140 (dup)	Roy Street ROW	09/22/17	Bladder	-	2.11 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.754 J	0.101 U	0.121 U	0.114 U	0.108 U	0.226 J	0.477 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		09/22/17	Bladder	-	3.74 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	2.13	0.101 U	0.121 U	0.114 U	0.108 U	0.211 J	0.523	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/12/18	Bladder	31.6 U	2.13 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.699 J+	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.355 J+	2.47 J+	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-141	Property	09/22/17	Bladder	-	4.56 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	2.07	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.345 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		04/12/18	Submersible	326	1.38 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.305 J+	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.389 J+	91.6 J+	5.68 J+	0.190 U	0.0924 U	0.158 U	0.305 U
		10/25/18	Bladder	31.6 U	1.05 UJ	0.0896 U	0.143 U	0.134 U	0.183 U	0.317 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	3.10	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		12/12/18	Bladder	31.6 U	1.11 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.46	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/30/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.479 J	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-153	Roy St ROW	05/01/18	Bladder	31.6 J	2.65 U	0.0896 U	0.143 U	0.134 U	0.183 U	4.54	0.140 U	0.141 U	0.870	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.612	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/22/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	1.41	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-158A	8th Ave N ROW	04/30/18	Bladder	101	5.00 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.580	0.140 U	0.141 U	1.29	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.189 J	59.6 J	0.205 J	0.190 U	0.0924 U	0.158 U	0.305 U
		01/24/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.491 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	2.54	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-160	8th Ave N ROW	05/21/18	Bladder	51.0 J	2.05 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.186 J	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	2.96	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/25/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	5.08	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-161	8th Ave N ROW	05/21/18	Bladder	31.6 U	1.83 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.779	1.89	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
		01/25/19	Bladder	31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.489 J	1.26	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U
MW-162	Property	02/05/19	Bladder	-	-	1.00 U	1.00 U	1.00 U	1.00 U	-	1.00 U	1.00 U	1.00 U	2.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	4.23	1,070	9.58	1.00 U	-	1.00 U	-
MW-163	Property (dup)	02/05/19	Bladder	-	-	1.00 U	1.00 U	1.00 U	1.00 U	-	1.00 U	1.00 U	1.00 U	2.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	9.12	42.2	1.00 U	1.00 U	-	1.00 U	-
		02/05/19	Bladder	-	-	1.00 U	1.00 U	1.00 U	1.00 U	-	1.00 U	1.00 U	1.00 U	2.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	9.31	40.3	1.00 U	1.00 U	-	1.00 U	-
MW-164	Property	02/05/19	Bladder	-	-	1.00 U	1.00 U	1.00 U	1.00 U	-	1.00 U	1.00 U	3.83	2.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	8.74	385	3.41	1.00 U	-	1.00 U	-
<b>Treatment Zone A Injection Wells</b>																									
IW-4A	Property	03/28/18	Peristaltic	-	2.01 U	0.205 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	17.2	0.526	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	8.95	2,010	9.77	0.190 U	0.0924 U	0.158 U	0.305 U
IW-7A	Property	04/02/18	Peristaltic	-	4.08 J	0.0896 U	0.143 U	0.134 U	0.183 U	0.144 J	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	8.74	0.295 J	0.190 U	0.0924 U	0.158 U	0.305 U
IW-9A	Property	03/29/18	Peristaltic	-	2.70 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	4.90	0.173 J	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	1.85	510	2.36	0.190 U	0.0924 U	0.158 U	0.305 U
IW-18A	Property	03/30/18	Peristaltic	-	2.19 U	0.306 J	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	3.63	0.292 J	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	12.9	3,680	13.6	0.190 U	0.0924 U	0.158 U	0.305 U
IW-22A	Property	04/02/18	Peristaltic	-	3.74 J	0.0896 U	0.143 U	0.																	

Table C-7

Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																		
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,3,5-TMB	1,3,5-TMB	VC	Total Xylenes
Screening Level				800	-	4,800	4.6	640	24.3	160	800	1,600	2.4	72	200	1	240,000	-	-	80	0.2	10,000
MW-133	Property	09/25/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	1.07 J	0.162 U	0.117 U	12.7	0.748	0.0940 U	16.2	0.164 U	0.123 U	0.0739 U	0.124 U	0.239 J	0.316 U
		04/25/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.739 J	0.162 U	0.117 U	0.646	0.837	0.0940 U	0.516	0.164 U	0.123 U	0.0739 U	0.124 U	3.51	0.316 U
		10/26/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.411 J	0.162 U	0.117 U	1.92 J+	0.412 U	0.0940 U	1.63 J+	0.164 U	0.123 U	0.0739 U	0.124 U	3.43	0.316 U
		12/12/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.251 J	0.162 U	0.117 U	1.71	0.412 U	0.0940 U	2.75	0.164 U	0.123 U	0.0739 U	0.124 U	5.95	0.316 U
		02/01/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	22.4	0.412 U	0.0940 U	9.29	0.164 U	0.123 U	0.0739 U	0.124 U	4.36	0.316 U
MW-137	Property	09/25/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	15.0	3.90	0.0940 U	19.1	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/12/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	4.26	0.316 U
		10/26/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.896 J+	0.412 U	0.0940 U	0.463 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		12/12/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.357 J	0.316 U
		02/01/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.48	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.365 J	0.316 U
MW-138	Dexter Ave N	09/21/17	Bladder	0.252 U	0.276 U	2.56 U	2.14 U	1.65 U	0.204 U	0.348 U	0.324 U	0.234 U	0.398 U	2.60	0.188 U	0.306 U	0.328 U	0.246 U	0.148 U	0.248 U	0.236 U	0.632 U
		04/11/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		10/29/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.146 J	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.169 J	0.316 U
		12/17/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		01/03/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.442 J	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW-140 (dup)	Roy Street ROW	09/22/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.450 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		09/22/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.456 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		04/12/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	0.178 J+	0.402 J+	0.412 U	0.0940 U	0.572 J+	0.164 U	0.123 U	0.0739 U	0.124 U	0.246 J+
MW-141	Property	09/22/17	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.941	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.457 J	0.316 U
		04/12/18	Submersible	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 UJ	0.102 U	0.174 U	0.162 U	0.117 U	71.3 J+	0.412 U	0.0940 U	25.6 J+	0.164 U	0.123 U	0.0739 U	0.124 U	7.01 J+	0.316 U
		10/25/18	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
		12/12/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	0.520	0.316 U
		01/30/19	Bladder	0.126 U	0.138 U	1.28 UJ	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 UJ	0.124 U	0.118 U	0.316 U
MW-153	Roy St ROW	05/01/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.756	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	9.56	0.316 U
		01/22/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	15.9	0.316 U
MW-158A	8th Ave N ROW	04/30/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	17.7	2.66	0.0940 U	18.7	0.164 U	0.123 U	0.0739 U	0.124 U	8.91	0.316 U
		01/24/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.325 J	0.164 U	0.123 U	0.0739 UJ	0.124 U	7.58	0.316 U
MW-160	8th Ave N ROW	05/21/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 UJ	0.162 U	0.117 U	0.380 J	0.412 U	0.0940 U	0.835	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.342 J
		01/25/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.263 J	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW-161	8th Ave N ROW	05/21/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	2.01	0.412 U	0.0940 U	1.79	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.329 J
		01/25/19	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.472 J	0.412 U	0.0940 U	1.66	0.164 U	0.123 U	0.0739 U	0.124 U	0.118 U	0.316 U
MW-162	Property	02/05/19	Bladder	1.00 U	1.00 U	-	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	2,800	1.00 U	1.00 U	613	-	1.00 U	-	1.00 U	128	1.00 U
MW-163	Property (dup)	02/05/19	Bladder	1.00 U	1.00 U	-	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	218	1.00 U	1.00 U	150	-	1.00 U	-	1.00 U	2.95	1.00 U
		02/05/19	Bladder	1.00 U	1.00 U	-	1.00 U	-	1.00 U	1.00 U	1.00 U	1.00 U	220	1.00 U	1.00 U	153	-	1.00 U	-	1.00 U	3.45	1.00 U
MW-164	Property	02/05/19	Bladder	1.00 U	1.00 U	-	1.00 U	-	1.00 U	1.00 U	1.00 U	871	1.80	1.00 U	372	-	1.00 U	-	1.00 U	4.41	1.00 U	
Treatment Zone A Injection Wells																						
IW-4A	Property	03/28/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	9,470	0.589	0.0940 U	1,100	0.164 U	0.123 U	0.0739 U	0.124 U	306	0.316 U
IW-7A	Property	04/02/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.335 J	0.412 U	0.0940 U	2.09	0.164 U	0.123 U	0.0739 U	0.124 U	1.20	0.316 U
IW-9A	Property	03/29/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	3,230	0.412 U	0.0940 U	299	0.164 U	0.123 U	0.0739 U	0.124 U	102	0.316 U
IW-18A	Property	03/30/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.258 J	0.186 J	0.117 U	16,500	2.07	0.0940 U	3,300	0.164 U	0.984	0.372 J	0.293 J	478	0.507 J
IW-22A	Property	04/02/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	3.88	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	232	0.316 U
IW-37A	Property	03/28/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	55.9	0.316 U
IW-41A	Property	04/10/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.184 J	3.48 U	0.162 UJ	0.117 UJ	37.3	0.412 U	0.0940 U	28.0	0.164 U	2.46 U	0.157 J	0.124 U	78.2	6.32 U



Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																							
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane		
<b>Screening Level</b>				<b>800</b>	<b>7,200</b>	<b>0.5</b>	<b>400</b>	<b>800</b>	<b>800</b>	<b>800</b>	<b>130</b>	-	<b>80</b>	-	<b>420</b>	<b>8.10</b>	<b>7.68</b>	<b>0.38</b>	<b>7</b>	<b>16</b>	<b>100</b>	<b>0.71</b>	-	<b>29</b>	<b>480</b>		
IW-42A	Property	04/10/18	Peristaltic	-	<b>1.94 J</b>	22.4 U	0.143 U	0.134 U	0.183 U	<b>0.186 J</b>	0.140 U	<b>1.75 J</b>	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>13.7</b>	<b>10,500</b>	<b>14.5</b>	0.190 U	0.0924 U	39.5 U	0.305 U		
IW-45A	Property	04/04/18	Peristaltic	-	1.05 U	<b>0.202 J</b>	0.143 U	0.134 U	0.183 U	<b>0.143 J</b>	0.140 U	<b>4.93</b>	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>19.6</b>	<b>18,800</b>	<b>14.5</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-46A	Property	03/28/18	Peristaltic	-	<b>188</b>	0.0896 U	0.143 U	0.134 U	0.183 U	<b>0.152 J</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	<b>8.86</b>	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-48A	Property	04/02/18	Peristaltic	-	<b>117</b>	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	<b>1.16</b>	<b>1.04</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
<b>Treatment Zone B Injection Wells</b>																											
IW-3B	Property	03/28/18	Peristaltic	-	1.82 U	<b>0.158 J</b>	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	<b>15.0</b>	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>9.84</b>	<b>3,170</b>	<b>10.7</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-6B	Property	04/02/18	Peristaltic	-	<b>2.27 J</b>	<b>0.350 J</b>	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>12.2</b>	<b>2,270</b>	<b>13.6</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-8B	Property	03/30/18	Peristaltic	-	2.33 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	<b>6.43</b>	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-17B	Property	03/30/18	Peristaltic	-	8.11 U	<b>0.838</b>	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	<b>5.32</b>	0.0860 U	0.153 U	<b>0.134 J</b>	0.121 U	0.114 U	0.108 U	<b>184</b>	<b>51,400</b>	<b>228 J</b>	0.190 U	0.0924 U	<b>0.451 J</b>	0.305 U		
IW-21B	Property	04/02/18	Peristaltic	-	<b>1.92 J</b>	0.0896 U	0.143 U	0.134 U	0.183 U	<b>3.64</b>	0.140 U	<b>1.28 J</b>	<b>0.182 J</b>	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>14.3</b>	<b>4,600</b>	<b>58.5</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-22B	Property	04/25/18	Peristaltic	-	21.0 U	1.79 U	2.86 U	2.68 U	3.66 U	2.02 U	2.80 U	2.82 U	1.72 U	3.06 U	2.02 U	2.42 U	2.28 U	2.16 U	<b>62.7</b>	<b>26,600</b>	<b>128</b>	3.80 U	1.85 U	3.16 U	6.10 U		
IW-24B	Property	03/30/18	Peristaltic	-	5.27 U	<b>0.754 J+</b>	0.143 U	0.134 U	0.183 U	<b>0.806 J+</b>	<b>0.278 J+</b>	<b>3.05 J+</b>	0.0860 U	0.153 U	<b>0.172 J+</b>	0.121 U	0.114 U	0.108 U	<b>149 J</b>	<b>48,200</b>	<b>274</b>	0.190 U	0.0924 U	<b>0.777 J+</b>	0.305 U		
IW-28B	Property	04/09/18	Peristaltic	-	<b>7.35 J</b>	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	<b>19.4</b>	<b>0.174 J</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-33B	Property	04/02/18	Peristaltic	-	<b>2.69 J</b>	<b>0.560</b>	0.143 U	0.134 U	0.183 U	<b>0.915</b>	0.140 U	0.141 U	<b>0.200 J</b>	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>49.7</b>	<b>18,200</b>	<b>228</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-37B	Property	03/29/18	Peristaltic	-	3.13 U	0.0896 U	0.143 U	0.134 U	0.183 U	<b>0.447 J</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>4.56</b>	<b>3,240</b>	<b>33.0</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-45B	Property	03/28/18	Peristaltic	-	1.12 U	0.0896 U	0.143 U	0.134 U	0.183 U	<b>0.168 J</b>	0.140 U	<b>0.552 J</b>	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>0.641</b>	<b>213</b>	<b>7.09</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-47B	Property	04/10/18	Bladder	-	<b>51.7 J</b>	89.6 U	0.715 U	0.670 U	0.915 U	<b>1.08 J</b>	0.700 U	0.705 U	0.430 U	0.765 U	0.505 U	0.605 U	0.570 U	0.540 U	<b>92.7</b>	<b>40,900</b>	<b>46.3</b>	0.950 U	0.462 U	158 U	1.52 U		
IW-49B	Property	03/28/18	Peristaltic	-	<b>221</b>	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>3.52</b>	<b>974</b>	<b>1.49</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-51B	Property	03/28/18	Peristaltic	-	<b>4.66 J</b>	0.0896 U	0.143 U	0.134 U	0.183 U	<b>0.944</b>	0.140 U	<b>0.292 J</b>	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	<b>4.60</b>	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
<b>Treatment Zone C Injection Wells</b>																											
IW-1C	Property	03/29/18	Peristaltic	-	2.31 U	0.0896 U	0.143 U	0.134 U	0.183 U	<b>2.19</b>	0.140 U	<b>0.372 J</b>	<b>0.511</b>	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	<b>12.7</b>	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-4C	Property	04/26/18	Peristaltic	-	2.54 U	<b>0.158 J</b>	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>9.35</b>	<b>5,080</b>	<b>2.17</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-8C	Property	04/04/18	Peristaltic	-	<b>8.17 J</b>	<b>0.276 J</b>	0.143 U	0.134 U	0.183 U	<b>0.850</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>11.3</b>	<b>4,160</b>	<b>9.22</b>	0.190 U	0.0924 U	<b>0.206 J</b>	0.305 U		
IW-9C	Property	04/02/18	Peristaltic	-	<b>3.49 J</b>	<b>0.285 J</b>	0.143 U	0.134 U	0.183 U	<b>1.07</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>55.4</b>	<b>20,400</b>	<b>107</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-13C	Property	04/25/18	Peristaltic	-	<b>2.64 J</b>	0.0896 U	0.143 U	0.134 U	0.183 U	<b>0.287 J</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>4.12 J</b>	<b>412</b>	<b>0.292 J</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-15C	Property	03/30/18	Bladder	-	17.7 U	0.896 U	1.43 U	1.34 U	1.83 U	1.01 U	1.40 U	1.41 U	0.860 U	1.53 U	1.01 U	1.21 U	1.14 U	1.08 U	<b>103</b>	<b>26,800</b>	<b>51.3</b>	1.90 U	0.924 U	1.58 U	3.05 U		
IW-19C	Property	03/29/18	Peristaltic	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>0.201 J</b>	<b>103</b>	<b>0.305 J</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-20C (dup)	Property	03/30/18	Bladder	-	5.01 U	<b>0.208 J</b>	0.143 U	0.134 U	0.183 U	<b>0.734</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>64.8</b>	<b>6,830</b>	<b>9.44</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
		03/30/18	Bladder	-	6.11 U	<b>0.198 J</b>	0.143 U	0.134 U	0.183 U	<b>0.803</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>69.0</b>	<b>6,690</b>	<b>10.2</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
<b>Treatment Zone D Injection Wells</b>																											
IW-1D	Property	04/03/18	Bladder	-	<b>29.1 J</b>	0.896 U	1.43 U	1.34 U	1.83 U	1.01 U	1.40 U	1.41 U	<b>0.968 J</b>	1.53 U	1.01 U	1.21 U	1.14 U	1.08 U	<b>98.8</b>	<b>5,920</b>	<b>16.0</b>	1.90 U	0.924 U	1.58 U	3.05 U		
IW-3D	Property	04/03/18	Bladder	-	<b>5.37 J</b>	0.0896 U	0.143 U	0.134 U	0.183 U	<b>3.26</b>	0.140 U	0.141 U	<b>0.408 J</b>	0.153 U	0.101 U	0.121 U	<b>0.168 J</b>	0.108 U	<b>61.5</b>	<b>9,860</b>	<b>16.4</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-4D	Property	03/29/18	Bladder	-	2.02 U	0.0896 U	0.143 U	0.134 U	0.183 U	<b>3.06</b>	0.140 U	0.141 U	<b>0.242 J</b>	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	<b>5.29</b>	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-6D	Property	04/03/18	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	<b>3.29</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	<b>2.97</b>	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-8D	Property	04/04/18	Bladder	-	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	<b>1.17</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>50.3</b>	<b>3,200</b>	<b>39.1</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-9D	Property	04/04/18	Bladder	-	<b>4.46 J</b>	0.0896 U	0.143 U	0.134 U	0.183 U	<b>0.969</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>30.8</b>	<b>3,380</b>	<b>10.0</b>	0.190 U	0.0924 U	0.158 U	0.305 U		
IW-11D	Property	05/01/18	Bladder	-	3.92 U	0.0896 U	0.143 U	0.134 U	0.183 U	<b>0.792</b>	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	<b>18.0</b>	<b>1,640</b>	<b>2.27</b>	0.190 U	0.0924 U	0.158 U	0.305 U		

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																		
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,3,5-TMB	VC	Total Xylenes	
<b>Screening Level</b>				<b>800</b>	-	<b>4,800</b>	<b>4.6</b>	<b>640</b>	<b>24.3</b>	<b>160</b>	<b>800</b>	<b>1,600</b>	<b>2.4</b>	<b>72</b>	<b>200</b>	<b>1</b>	<b>240,000</b>	-	-	<b>80</b>	<b>0.2</b>	<b>10,000</b>
IW-42A	Property	04/10/18	Peristaltic	0.174 J	0.138 U	1.28 U	1.07 U	0.823 U	25.5 U	43.5 U	0.372 J	0.117 U	7,700	0.726	0.0940 U	1,840	0.164 U	30.8 U	0.930	0.403 J	1,280	79.0 U
IW-45A	Property	04/04/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.235 J	0.162 U	0.117 U	9,250	0.749	0.0940 U	7,460	0.164 U	0.490 J	0.289 J	0.138 J	2,020	0.361 J
IW-46A	Property	03/28/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.200 J	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.0739 U	0.124 U	284	0.316 U
IW-48A	Property	04/02/18	Peristaltic	0.126 U	0.138 U	119	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.425 J	0.412 U	0.0940 U	0.622	0.164 U	0.123 U	0.0739 U	0.124 U	16.3	0.316 U
<b>Treatment Zone B Injection Wells</b>																						
IW-3B	Property	03/28/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	360	0.446 J	0.0940 U	459	0.164 U	0.123 U	0.0739 U	0.124 U	395	0.316 U
IW-6B	Property	04/02/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	590	0.453 J	0.0940 U	847	0.164 U	0.212 J	0.0739 U	0.124 U	24.1	0.316 U
IW-8B	Property	03/30/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	25.2	0.412 U	0.0940 U	21.8	0.164 U	0.123 U	0.0739 U	0.124 U	0.403 J	0.316 U
IW-17B	Property	03/30/18	Peristaltic	0.126 U	0.141 J	2.93 J	1.07 U	0.823 U	0.102 U	0.480 J	0.307 J	0.117 U	60,100	3.71	0.0940 U	11,500	0.164 U	2.04	1.05	0.613	3,230	2.54
IW-21B	Property	04/02/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.51	0.438 J	0.0940 U	148	0.164 U	0.123 U	0.0739 U	0.124 U	1,200	0.316 U
IW-22B	Property	04/25/18	Peristaltic	2.52 U	2.76 U	25.6 U	21.4 U	16.5 U	2.04 U	3.48 U	3.24 U	2.34 U	62,600	17.7	1.88 U	6,000	3.28 U	5.42 J	1.48 U	2.48 U	9,680	6.32 U
IW-24B	Property	03/30/18	Peristaltic	0.158 J+	0.266 J+	1.28 U	1.07 U	0.823 U	0.102 U	0.975 J+	0.429 J+	0.117 U	48,800	6.26 J+	0.0940 U	20,100	0.164 U	3.07 J+	1.61 J+	0.906 J+	2,040	4.55
IW-28B	Property	04/09/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	4.71	0.412 U	0.0940 U	2.42	0.164 U	0.123 U	0.0739 U	0.124 U	3.66	0.316 U
IW-33B	Property	04/02/18	Peristaltic	0.126 U	0.138 U	1.35 J	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	31.6	2.30	1.88 U	1,800	0.164 U	0.123 U	0.0739 U	0.124 U	2,410	0.316 U
IW-37B	Property	03/29/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.82	0.412 U	0.0940 U	0.497 J	0.164 U	0.123 U	0.0739 U	0.124 U	2,420	0.316 U
IW-45B	Property	03/28/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.215 J	0.164 U	0.123 U	0.0739 U	0.124 U	150	0.316 U
IW-47B	Property	04/10/18	Bladder	0.630 U	0.690 U	11.5 J	5.35 U	4.12 U	0.510 U	174 U	0.810 U	0.585 U	144	2.06 U	0.470 U	170	0.820 U	123 U	0.370 U	0.620 U	3,360	316 U
IW-49B	Property	03/28/18	Peristaltic	0.126 U	0.138 U	33.1	1.07 U	0.823 U	0.102 U	0.197 J	0.162 U	0.117 U	0.307 J	0.412 U	0.0940 U	0.572	0.164 U	0.123 U	0.0739 U	0.124 U	668	0.316 U
IW-51B	Property	03/28/18	Peristaltic	0.126 U	0.138 U	1.43 J	1.07 U	0.823 U	0.102 U	0.208 J	0.162 U	0.117 U	0.437 J	0.412 U	0.0940 U	0.817	0.164 U	0.123 U	0.0739 U	0.124 U	20.5	0.316 U
<b>Treatment Zone C Injection Wells</b>																						
IW-1C	Property	03/29/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	5.07	0.524	0.0940 U	56.5	0.164 U	0.123 U	0.0739 U	0.124 U	1.69	0.316 U
IW-4C	Property	04/26/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	22,300	0.918	0.0940 U	1,860	0.164 U	0.642	0.311 J	0.207 J	29.7	0.647 J
IW-8C	Property	04/04/18	Peristaltic	0.126 U	0.138 U	2.06 J	1.07 U	0.823 U	0.102 U	0.580 J	0.164 J	0.117 U	27,400	2.77	0.0940 U	1,160	0.164 U	1.28	0.712	0.376 J	169	1.54
IW-9C	Property	04/02/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	3.15	0.690	0.0940 U	49.7	0.164 U	0.123 U	0.0739 U	0.124 U	3,780	0.316 U
IW-13C	Property	04/25/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	155	0.412 U	0.0940 U	111	0.164 U	0.123 U	0.0739 U	0.124 U	30.0	0.316 U
IW-15C	Property	03/30/18	Bladder	1.26 U	1.38 U	12.8 U	10.7 U	8.23 U	1.02 U	1.74 U	1.62 U	1.17 U	670	4.12 U	0.940 U	166	1.64 U	1.23 U	0.739 U	1.24 U	7,350	3.16 U
IW-19C	Property	03/29/18	Peristaltic	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	1.12	0.412 U	0.0940 U	0.192 J	0.164 U	0.123 U	0.0739 U	0.124 U	168	0.316 U
IW-20C (dup)	Property	03/30/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	721	1.54	0.0940 U	1,020	0.164 U	0.123 U	0.0739 U	0.124 U	111	0.316 U
		03/30/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	678	1.53	0.0940 U	1,020	0.164 U	0.123 U	0.0739 U	0.124 U	111	0.316 U
<b>Treatment Zone D Injection Wells</b>																						
IW-1D	Property	04/03/18	Bladder	1.26 U	1.38 U	13.9 J	10.7 U	8.23 U	1.02 U	1.74 U	1.62 U	1.17 U	64,100	6.74	0.940 U	2,830	1.64 U	2.23 J	0.739 U	1.24 U	118	3.16 U
IW-3D	Property	04/03/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	4,240	1.28	0.0940 U	4,600	0.164 U	0.391 J	0.145 J	0.134 J	37.1	0.409 J
IW-4D	Property	03/29/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	2.86	0.604	0.0940 U	0.653	0.164 U	0.123 U	0.0739 U	0.124 U	2.56	0.316 U
IW-6D	Property	04/03/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	16.3	0.412 U	0.0940 U	0.826	0.164 U	0.123 U	0.0739 U	0.124 U	1.27	0.316 U
IW-8D	Property	04/04/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.188 J	6,010	0.412 U	0.0940 U	4,310	0.164 U	0.289 J	0.201 J	0.124 U	631	0.384 J
IW-9D	Property	04/04/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	3,610	1.12	0.0940 U	1,510	0.164 U	0.142 J	0.0739 U	0.124 U	31.6	0.316 U
IW-11D	Property	05/01/18	Bladder	0.126 U	0.138 U	1.28 U	1.07 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	18.9	0.643	0.0940 U	282	0.164 U	0.123 U	0.0739 U	0.124 U	34.1	0.316 U

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																						
				GRO	Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	1,2-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethene	cDCE	tDCE	1,2-Dichloropropane	di-isopropyl ether	Ethylbenzene	n-Hexane	
<b>Screening Level</b>				<b>800</b>	<b>7,200</b>	<b>0.5</b>	<b>400</b>	<b>800</b>	<b>800</b>	<b>800</b>	<b>800</b>	<b>130</b>	-	<b>80</b>	-	<b>420</b>	<b>8.10</b>	<b>7.68</b>	<b>0.38</b>	<b>7</b>	<b>16</b>	<b>100</b>	<b>0.71</b>	-	<b>29</b>	<b>480</b>
Number of Samples				160	319	323	323	323	323	319	323	323	323	323	323	323	323	323	323	323	324	324	323	319	323	319
Number of Detections				65	136	87	8	11	2	75	1	42	29	4	4	1	12	3	133	262	148	4	5	25	14	
Frequency of Detection				41%	43%	27%	2%	3%	1%	24%	0%	13%	9%	1%	0%	4%	1%	41%	81%	46%	1%	2%	8%	4%		
Maximum				347,000 z	221	257	8.28	10.1	0.248 J	16.40	0.278 J+	28.8	20.9	6.51	0.172 J+	0.144 J	1.88	0.211 J	240	77,100 J+	274	0.768	1.41	155	65.1	
Minimum				31.6 U	1.05 U	0.0896 U	0.143 U	0.134 U	0.183 U	0.101 U	0.140 U	0.141 U	0.0860 U	0.153 U	0.101 U	0.121 U	0.114 U	0.108 U	0.188 U	0.0933 U	0.152 U	0.190 U	0.0924 U	0.158 U	0.305 U	
<u>Notes:</u>				<p>1. All groundwater sampling performed after 2016 conducted by PES Environmental, Inc.</p> <p>2. - = not available</p> <p>3. Detected results shown in bold, detections above the screening level highlighted in gray</p> <p>4. dup = field duplicate sample</p> <p>5. U = not detected at or above the laboratory method detection limit (MDL); detections above the MDL but below the laboratory reported detection limit (RDL) are qualified with a "J"</p> <p>6. J = the identification of the analyte is acceptable; the reported value is an estimate</p> <p>7. J+ = The result is an estimated quantity, but the result may be biased high.</p> <p>8. B = the same analyte is found in the associated blank</p> <p>9. z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs</p> <p>10. GRO = gasoline range organics</p> <p>11. Chloroethane is also known as ethyl chloride</p> <p>12. cDCE = cis-1,2-dichloroethene</p> <p>13. tDCE = trans-1,2-dichloroethene</p> <p>14. Isopropylbenzene is also known as cumene</p> <p>15. MEK = methyl ethyl ketone (2-Butanone)</p> <p>16. MIBK = methyl isobutyl ketone (4-Methyl-2-pentanone)</p> <p>17. CFC-113 = 1,1,2-trichlorotrifluoroethane</p> <p>18. PCE = perchloroethylene (tetrachloroethene)</p> <p>19. TCE = trichloroethene</p> <p>20. 1,2,4-TMB = 1,2,4-trimethylbenzene</p> <p>21. 1,3,5-TMB = 1,3,5-trimethylbenzene</p> <p>22. VC = vinyl chloride</p>																						

Table C-7

**Petroleum Hydrocarbons and VOCs Detected in 2017 through 2019 Groundwater Samples  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Property	Sample Date	Sampling Method	Analytical Results (micrograms per liter)																		
				Isopropylbenzene	p-Isopropyltoluene	MEK	Methylene Chloride	MIBK	MTBE	Naphthalene	n-propylbenzene	Styrene	PCE	Toluene	1,1,1-Trichloroethane	TCE	CFC-113	1,2,4-TMB	1,3,5-TMB	1,3,5-TMB	VC	Total Xylenes
			Screening Level	<b>800</b>	-	<b>4,800</b>	<b>4.6</b>	<b>640</b>	<b>24.3</b>	<b>160</b>	<b>800</b>	<b>1,600</b>	<b>2.4</b>	<b>72</b>	<b>200</b>	<b>1</b>	<b>240,000</b>	-	-	<b>80</b>	<b>0.2</b>	<b>10,000</b>
			Number of Samples	323	323	319	323	319	323	323	323	323	324	323	323	324	319	323	319	323	324	323
			Number of Detections	15	10	33	2	5	1	32	21	6	180	84	3	193	4	35	31	25	229	31
			Frequency of Detection	5%	3%	10%	1%	2%	0%	10%	7%	2%	56%	26%	1%	60%	1%	11%	10%	8%	71%	10%
			Maximum	67.3	1.08	213 J	1.24 J	8.50	0.184 J	61.8 J	134	0.273 J	97,200	17.7	0.278 J	20,100	0.501	60.3	59.3	5.36	9,680	181
			Minimum	0.126 U	0.138 U	1.28 U	1.00 U	0.823 U	0.102 U	0.174 U	0.162 U	0.117 U	0.199 U	0.412 U	0.0940 U	0.153 U	0.164 U	0.123 U	0.074 U	0.124 U	0.118 U	0.316 U
Notes:				<p>1. All groundwater sampling performed after 2016 conducted by PES Environmental, Inc.</p> <p>2. - = not available</p> <p>3. Detected results shown in bold, detections above the screening level highlighted in gray</p> <p>4. dup = field duplicate sample</p> <p>5. U = not detected at or above the laboratory method detection limit (MDL); detections above the MDL but below the laboratory reported detection limit (RDL) are qualified with a "J"</p> <p>6. J = the identification of the analyte is acceptable; the reported value is an estimate</p> <p>7. J+ = The result is an estimated quantity, but the result may be biased high.</p> <p>8. B = the same analyte is found in the associated blank</p> <p>9. z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs</p> <p>10. GRO = gasoline range organics</p> <p>11. Chloroethane is also known as ethyl chloride</p> <p>12. cDCE = cis-1,2-dichloroethene</p> <p>13. tDCE = trans-1,2-dichloroethene</p> <p>14. Isopropylbenzene is also known as cumene</p> <p>15. MEK = methyl ethyl ketone (2-Butanone)</p> <p>16. MIBK = methyl isobutyl ketone (4-Methyl-2-pentanone)</p> <p>17. CFC-113 = 1,1,2-trichlorotrifluoroethane</p> <p>18. PCE = perchloroethylene (tetrachloroethene)</p> <p>19. TCE = trichloroethene</p> <p>20. 1,2,4-TMB = 1,2,4-trimethylbenzene</p> <p>21. 1,3,5-TMB = 1,3,5-trimethylbenzene</p> <p>22. VC = vinyl chloride</p>																		

Table C-8

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)													
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
Screening Level						800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2		
<b>On Property</b>																			
F5	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	-	120,000	1,100	700	5.20	4.2	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	21,000	1,200	1,000	1,000	200 U
			03/28/17	PES	Peristaltic	234	-	-	0.515	0.727 U	0.158 U	0.316 U	0.199 U	0.241 J	516	4.31	90.6		
			06/22/17	PES	Peristaltic	31.6 U	-	-	0.374 J	0.708	0.158 U	0.316 U	0.199 U	0.485	10.4	0.485 J	63.9		
F9	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	-	140,000	3,400	1,100	8.6	78	
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	3.7	1.8	680	12	74
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	15.0	6.6	840	13	75
			02/01/16	SES	Peristaltic	-	-	-	-	-	-	-	-	-	2.9	1 U	1.3	1 U	20
			03/27/17	PES	Peristaltic	31.6 U	-	-	0.529	2.04	0.158 U	0.316 U	0.199 U	0.153 U	0.158 J	0.539	0.118 U		
			06/22/17	PES	Peristaltic	31.6 U	-	-	0.471 J	1.70	0.158 U	0.316 U	0.199 U	0.153 U	6.10	0.485	3.57		
F13	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	-	2,900	280	370	100 U	49	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	7,300	3,100	490	50 U	10 U
			11/18/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	67,000	6,600	3,200	85	48
			12/12/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	1,100	340	670	10 U	20
			03/07/14	SES	Peristaltic	-	-	-	-	-	-	-	-	-	84	11	10	1 U	0.36
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	8.4	1 U	1.8	1 U	0.31
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	1 U	2.0	210	2.3	4.1
			02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	-	-	3.4	1 U	1 U	1 U	0.97
			03/27/17	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.218 J	0.152 U	0.936		
			06/22/17	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.194 J	0.152 U	1.32		
			04/05/18	PES	Peristaltic	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	20.3	0.346 J	0.375 J	0.152 U	0.843
G12	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	-	64,000	3,100	9,200	88	130	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	1,700	150	100 U	100 U	20 U
			11/18/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	760	84	42	10 U	2 U
			03/27/17	PES	Peristaltic	-	-	-	0.243 J	0.412 U	0.158 U	0.316 U	0.199 U	0.233 J	95.9	1.97	28.4		
			06/30/17	PES	Peristaltic	-	-	-	0.282 J	0.412 U	0.158 U	0.316 U	0.199 U	0.323 J	115	2.94	31.5		
G-MW2	31 to 21	Property	07/24/01	GeoE	Peristaltic	-	-	-	0.375	48.3 E	2.01	12.88	176,000	237 g	129 g	1.02	0.457		
			01/29/09	DOF	Peristaltic	39,600 qp	-	-	20.0 U	20.0 U	20.0 U	48.9	59,000 f	210	373	1.33	0.200 U		
			06/02/11	SES	Peristaltic	59,000 xy	200	250 U	350 U	1,000 U	1,000 U	3,000 U	150,000	1000 U	1000 U	1000 U	200 U		
			09/06/12	SES	Peristaltic	-	-	-	0.35 U	12	1.1	4.7	150,000	320	260	1.4	0.2 U		
Decommissioned																			
J5	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	-	46,000	660	100 U	100 U	20 U	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	48,000	13,000	1,400	100 U	20 U
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	1,100	340	250	51	1.0
			10/19/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	1,400	470	890	51	1.3
			02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	-	-	1,500	110	280	14	0.31
			03/21/17	PES	Peristaltic	-	-	-	0.580	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	285	78.5	253	1.73	29.6
			06/26/17	PES	Peristaltic	-	-	-	0.252 J	0.506	0.158 U	0.316 U	0.199 U	0.153 U	36.1	37.1	366	1.94	77.7
04/05/18	PES	Peristaltic	207	-	-	0.638	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	267	70.5	222	1.00	17.6			
J15	-	Property	07/19/13	SES	Peristaltic	-	-	-	-	-	-	-	-	4,100	220	580	6.8	20	
			10/24/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	10,000	1,100	680	100 U	20 U
			03/07/14	SES	Peristaltic	-	-	-	-	-	-	-	-	-	2,200	170	120	50 U	10 U
			06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	9.0	12	310	8.8	3.1



Table C-8

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)													
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
Screening Level						800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2		
J15 (continued)  (duplicate)			10/19/15	SES	Peristaltic	–	–	–	–	–	–	–	3.6	1 U	110	3.0	1.7		
			02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	2.4	1 U	35	1 U	0.39		
			03/27/17	PES	Peristaltic	–	–	–	0.188 J	0.495 J	0.158 U	0.316 U	0.199 U	0.153 U	43.3	1.18	6.99		
			06/26/17	PES	Peristaltic	–	–	–	0.173 J	0.459 J	0.158 U	0.316 U	0.199 U	0.153 U	39.8	1.06	6.30		
			06/26/17	PES	Peristaltic	–	–	–	0.173 J	0.551	0.158 U	0.316 U	0.199 U	0.153 U	39.3	1.03	6.73		
			04/05/18	PES	Peristaltic	41.2 J	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	12.8	0.358 J	26.3	0.709	6.07		
K8	–	Property	07/19/13	SES	Peristaltic	–	–	–	–	–	–	–	–	8,700	330	1,400	5.6	6.3	
			06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	63	16	500	67	2 U
			10/19/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	360	82	43	3.2	0.44
			02/01/16	SES	Peristaltic	–	–	–	–	–	–	–	–	–	250	44	82	1.8	0.31
			03/21/17	PES	Peristaltic	–	–	–	0.239 J	0.412 U	0.158 U	0.316 U	82.5	22.0	123	0.680	0.461 J		
			06/26/17	PES	Peristaltic	–	–	–	0.246 J	0.412 U	0.158 U	0.316 U	67.9	28.7	140	0.750	0.456 J		
			04/05/18	PES	Peristaltic	156	–	–	0.251 J	0.412 U	0.158 U	0.316 U	229	26.3	104	0.750	1.45		
M15  (duplicate)	–	Property	07/19/13	SES	Peristaltic	–	–	–	–	–	–	–	–	3,200	110	180	1.7	0.22	
			10/24/13	SES	Peristaltic	–	–	–	–	–	–	–	–	–	56,000	1,100	770	50 U	10 U
			03/07/14	SES	Peristaltic	–	–	–	–	–	–	–	–	–	2,100	190	290	2.9	2.60
			06/16/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	58	44	76	2.7	1.1
			10/19/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	48	29	110	2.3	0.74
			02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	–	11	10	84	1.8	0.39
			03/27/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.733	32.7	0.561	13.2		
			03/27/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.670	31.7	0.513	12.0		
			06/26/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.233 J	1.80	25.8	0.523	15.0		
			04/05/18	PES	Peristaltic	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.563	8.89	0.300 J	11.1		
N7	–	Property	07/19/13	SES	Peristaltic	–	–	–	–	–	–	–	–	640	50	18	1 U	0.2 U	
			10/19/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	2,900	99	9.9	1 U	0.2 U
			02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	–	230	79	1,700	2.9	0.92
			03/30/17	PES	Peristaltic	–	–	–	0.178 J	0.412 U	0.158 U	0.316 U	280	50.4	125	0.396 J	0.310 J		
			06/27/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	205	85.1	153	0.955	0.386 J		
R-MW1	33.78 to 23.78	Property	10/24/92	Roux	Unknown	57	1,345	6,000	1	1	0.5 U	0.5 U	5 U	5 U	–	5 U	100		
			10/24/92	DOF	Unknown	53	26,000	12,000	0.61	0.83	0.50 U	1.0 U	4.2	0.82	12.0 c	–	170		
			10/24/92	Roux	Unknown	54	290	5,000	0.58	1	0.5 U	0.5 U	2.3	2 U	14	NA	140		
			01/29/09	DOF	Peristaltic	50.0 U	–	–	0.500 U	0.500 U	0.500 U	1.00 U	17.1	4.26	1.60	0.200 U	0.630		
			06/02/11	SES	Peristaltic	100 U	1,000 x	740	0.35 U	1 U	1 U	3 U	7.9	2.7	1.9	1 U	0.68		
			09/05/12	SES	Peristaltic	–	–	–	0.35 U	1 U	1 U	3 U	16	3.6	2.1	1 U	2.20		
Decommissioned																			
R-MW2	36.74 to 26.74	Property	10/24/92	Roux	Unknown	4,200	34	2,000	684	17	301	403	5 U	5 U	–	5 U	5 U		
			10/24/92	DOF	Unknown	4,000	16,000	25,000	310	0.50	140	180	–	–	–	–	–		
			01/29/09	DOF	Peristaltic	657	–	–	0.500 U	0.557	0.513	2.08	5.05	0.200 U	0.200 U	0.200 U	0.200 U		
			06/02/11	SES	Peristaltic	1,700	3,100	290 x	19	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U		
			09/04/12	SES	Peristaltic	–	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U		
			03/21/17	PES	Peristaltic	–	–	–	0.272 J	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.341 J	0.152 U	0.522		
			06/15/17	PES	Peristaltic	–	–	–	0.694	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.682	0.152 U	0.609		
			04/02/18	PES	Peristaltic	38.0 U	–	–	0.568	0.412 U	0.158 U	0.316 U	0.866	0.620	2.48	0.152 U	1.33		
R-MW3	34.74 to 24.74	Property	10/24/92	Roux	Unknown	87	3,015	1,200	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	–	5 U	5 U		

Table C-8

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																					
						GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE	
Screening Level						800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2										
R-MW3 (continued)			10/24/92	DOF	Unknown	50	U	-	-	0.50	U	0.50	U	0.50	U	1.0	U	-	-	-	-	-	-				
			01/29/09	DOF	Peristaltic	50.0	U	-	-	0.500	U	0.500	U	0.500	U	1.00	U	<b>4.26</b>	0.200	U	0.200	U	0.200	U	0.200	U	
			06/02/11	SES	Peristaltic	100	U	<b>240</b>	x	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	0.2	U
			09/04/12	SES	Peristaltic	-		-	-	0.35	U	1	U	1	U	3	U	<b>6.4</b>	1	U	1	U	1	U	0.2	U	
			03/21/17	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>1.38</b>	<b>0.714</b>	<b>0.575</b>	0.152	U	0.118	U			
			06/28/17	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.834</b>	<b>0.582</b>	<b>0.735</b>	0.152	U	<b>0.424</b>	J			
			04/04/18	PES	Peristaltic	<b>33.7</b>	J	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>16.4</b>	<b>0.972</b>	<b>1.35</b>	0.152	U	<b>0.214</b>	J			
<b>Off Property</b>																											
MW-6	31.2 to 16.2	800 Aloha St Parcel	10/12/93	Retec	Unknown	<b>150,000</b>		-	-	<b>9,100</b>		<b>6,800</b>		<b>2,600</b>		<b>7,300</b>		-	-	-	-	-	-	-	-	-	
			10/26/93	Retec	Unknown	<b>100,000</b>		-	-	<b>17,000</b>		<b>14,000</b>		<b>1,400</b>		<b>11,000</b>		-	-	-	-	-	-	-	-	-	-
			01/25/94	Retec	Unknown	<b>66,000</b>		-	-	<b>8,800</b>		<b>4,600</b>		<b>1,500</b>		<b>8,100</b>		-	-	-	-	-	-	-	-	-	-
			04/25/94	Retec	Unknown	<b>120,000</b>		-	-	<b>15,000</b>		<b>7,200</b>		<b>2,600</b>		<b>13,300</b>		-	-	-	-	-	-	-	-	-	-
			09/15/94	Retec	Unknown	<b>56,000</b>		-	-	<b>15,000</b>		<b>2,000</b>		<b>1,500</b>		<b>7,100</b>		-	-	-	-	-	-	-	-	-	-
			06/20/02	Urban	Unknown	<b>8,500</b>		-	-	<b>1,900</b>		<b>14</b>		<b>250</b>		<b>53</b>		-	-	-	-	-	-	-	-	-	-
MW-7	26.09 to 16.09	800 Aloha St Parcel	10/12/93	Retec	Unknown	<b>75,000</b>		-	-	<b>20,000</b>		<b>22,000</b>		<b>3,000</b>		<b>15,000</b>		-	-	-	-	-	-	-	-	-	
			10/26/93	Retec	Unknown	<b>74,000</b>		-	-	<b>8,300</b>		<b>7,400</b>		<b>1,100</b>		<b>8,300</b>		-	-	-	-	-	-	-	-	-	
			01/25/94	Retec	Unknown	<b>53,000</b>		-	-	<b>1,600</b>		<b>2,700</b>		<b>1,400</b>		<b>5,100</b>		-	-	-	-	-	-	-	-	-	
			04/25/94	Retec	Unknown	<b>140,000</b>		-	-	<b>3,900</b>		<b>7,400</b>		<b>3,100</b>		<b>14,100</b>		-	-	-	-	-	-	-	-	-	
			09/15/94	Retec	Unknown	<b>66,000</b>		-	-	<b>3,400</b>		<b>2,700</b>		<b>1,900</b>		<b>7,700</b>		-	-	-	-	-	-	-	-	-	
			09/15/94	Retec	Unknown	<b>77,000</b>		-	-	<b>3,600</b>		<b>3,000</b>		<b>2,100</b>		<b>8,700</b>		-	-	-	-	-	-	-	-	-	
(duplicate)		06/20/02	Urban	Unknown	<b>8,400</b>		-	-	<b>650</b>		<b>37</b>		<b>470</b>		<b>150</b>		-	-	-	-	-	-	-	-			
MW-8	28.69 to 14.19	800 Aloha St Parcel	10/26/93	Retec	Unknown	<b>280</b>		-	-	<b>19</b>		<b>1</b>	U	<b>48</b>		-	-	-	-	-	-	-	-	-	-		
			01/25/94	Retec	Unknown	<b>230</b>	J	-	-	<b>13</b>		<b>0.7</b>	J	1	U	<b>4.5</b>		-	-	-	-	-	-	-	-		
			01/25/94	Retec	Unknown	<b>210</b>	J	-	-	<b>12</b>		<b>0.6</b>	J	1	U	<b>3.7</b>		-	-	-	-	-	-	-	-		
			04/25/94	Retec	Unknown	250	U	-	-	<b>2.2</b>		1	U	1	U	<b>1.7</b>		-	-	-	-	-	-	-	-		
			09/15/94	Retec	Unknown	<b>210</b>	J	-	-	1	U	<b>0.5</b>	J	1	U	<b>1.6</b>	J	-	-	-	-	-	-	-	-		
			09/15/94	Retec	Unknown	<b>250</b>		-	-	1	U	<b>0.5</b>	J	1	U	<b>1.7</b>	J	-	-	-	-	-	-	-	-		
(dry)			06/21/02	Urban	Unknown	50	U	-	-	1	U	1	U	1	U	1	U	-	-	-	-	-	-	-			
			03/20/17	PES	Peristaltic	-		-	-	<b>0.145</b>	J	0.412	U	<b>0.175</b>	J	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
			06/27/17	PES	Peristaltic	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		04/13/18	PES	Peristaltic	-		-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.570</b>	0.153	U	0.0933	U	0.152	U	0.118	U		
MW-9	33.81 to 18.81	8th Ave North ROW	10/26/93	Retec	Unknown	<b>210</b>	J	-	-	<b>9.5</b>		<b>1.3</b>	1	U	2	U	-	-	-	-	-	-	-	-			
			01/25/94	Retec	Unknown	250	U	-	-	<b>5.7</b>		<b>1.1</b>	1	U	2	U	-	-	-	-	-	-	-	-			
			04/25/94	Retec	Unknown	250	U	-	-	0.001	U	1	U	1	U	2	U	-	-	-	-	-	-	-			
			09/15/94	Retec	Unknown	250	U	-	-	<b>3.5</b>		<b>0.6</b>	J	1	U	2	U	-	-	-	-	-	-	-			
			06/20/02	Urban	Unknown	50	U	-	-	1	U	1	U	1	U	2	U	1	U	1	U	1	U	1	U	1	U
			06/02/11	SES	Peristaltic	100	U	<b>150</b>	x	250	U	1	U	1	U	3	U	-	-	-	-	-	-	-	-		
			09/04/12	SES	Peristaltic	-		-	-	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	<b>0.61</b>	
			12/16/13	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	3	U	1	U	1	U	1	U	1	U	0.2	U
			03/20/17	PES	Peristaltic	<b>52.8</b>	J	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.140</b>	J	0.152	U	<b>0.324</b>	J
			06/20/17	PES	Peristaltic	31.6	U	-	-	0.0896	U	<b>0.562</b>	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.214</b>	J	0.152	U	0.118	U	
			06/20/17	PES	Peristaltic	31.6	U	-	-	0.0896	U	<b>0.548</b>	0.158	U	0.316	U	0.199	U	0.153	U	<b>0.211</b>	J	0.152	U	0.118	U	
			04/05/18	PES	Peristaltic	<b>32.9</b>	J	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	<b>1.58</b>	0.153	U	<b>0.246</b>	J	0.152	U	<b>0.210</b>	J	
01/21/19	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U			

Table C-8

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																									
						GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC			
Screening Level						800		500		500		0.5		72		29		10,000		2.4		1		16		100		0.2			
MW-10	30.95 to 15.95	800 Aloha St Parcel	10/26/93	Retec	Unknown	250	U	-		-		1	U	1.3		1	U	2	U	-		-		-		-		-			
			01/25/94	Retec	Unknown	190	J	-		-		1	U	3.2		1	U	2	U	-		-		-		-		-		-	
			04/25/94	Retec	Unknown	250	U	-		-		1	U	2.5		1	U	2	U	-		-		-		-		-		-	
			09/15/94	Retec	Unknown	250	U	-		-		1	U	0.9	J	1	U	2	U	-		-		-		-		-		-	
			06/20/02	Urban	Unknown	50	U	-		-		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
MW121	26.72 to 16.72	8th Ave North ROW	12/26/13	SES	Peristaltic	100	U	200	x	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1.3			
			03/28/17	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.768		0.152	U	5.82			
			06/20/17	PES	Peristaltic	-		-		-		0.186	J	0.774		0.158	U	0.316	U	0.199	U	0.153	U	1.13		0.152	U	7.68			
			04/05/18	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	2.93		0.153	U	0.959		0.152	U	6.45			
			01/31/19	PES	Peristaltic	38.0	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	5.53		0.152	U	19.8			
MW125	28.55 to 13.55	Valley St ROW	12/26/13	SES	Peristaltic	100	U	300	x	250	U	1.4		1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.2	U		
			03/22/17	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.285	J	0.153	U	0.341	J	0.152	U	0.118	U		
			06/28/17	PES	Bladder	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
			04/06/18	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.580		0.153	U	0.278	J	0.152	U	0.118	U		
			01/21/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
MW-154	27.57 to 13.55	Roy St ROW	04/30/18	PES	Bladder	32.1	J	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	4.46		0.230	J	1.77		0.152	U	7.48			
			01/21/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	1.70		0.330	J	2.03		0.152	U	3.52			
MW-155	24.05 to 13.55	Roy Street ROW	04/27/18	PES	Peristaltic	60.9	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	3.48		0.334	J	0.466	J	0.152	U	0.447	J		
			01/21/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	3.72		0.581		0.274	J	0.152	U	0.118	U		
MW-159	22.39 to 13.55	8th Ave N ROW	04/26/18	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.964		0.358	J	1.09		0.152	U	0.118	U		
			01/21/19	PES	Peristaltic	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.651		0.152	U	0.666			
MW-214 (duplicate) (dry)	-	Valley St ROW	03/30/17	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
			03/30/17	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
			06/21/17	PES	Peristaltic	-		-		-		-		-		-		-		-		-		-		-		-		-	
			04/09/18	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.725		0.153	U	0.0933	U	0.152	U	0.118	U		
R-MW5	42.03 to 27.03	Dexter Ave North ROW	10/28/92	Roux	Unknown	93		86		1000	U	0.5	U	1		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	-		0.5	U		
			01/29/09	DOF	Peristaltic	50	U	-		-		0.500	U	0.500	U	0.500	U	1.00	U	0.800		0.200	U	0.200	U	0.200	U	0.200	U		
			06/02/11	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1	U	0.2	U
			09/05/12	SES	Peristaltic	-		-		-		0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1	U	0.2	U
			12/18/13	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	1	U	0.2	U
			03/23/17	PES	Peristaltic	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.338	J	0.186	J	0.0933	U	0.152	U	0.118	U		
			06/16/17	PES	Bladder	-		-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.257	J	0.245	J	0.0933	U	0.152	U	0.118	U		
			04/11/18	PES	Bladder	31.6	U	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.621		0.153	U	0.0933	U	0.152	U	0.118	U		
			01/03/19	PES	Peristaltic	81.5	J	-		-		0.0896	U	0.412	U	0.158	U	0.316	U	0.477	J	0.153	U	0.0933	U	0.152	U	0.118	U		

Table C-8

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																						
						GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC
Screening Level						800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2											
R-MW6	33.28 to 23.28	8th Ave North ROW	10/28/92	Roux	Unknown	50	U	50	U	1000	U	0.5	U	2	0.5	U	2	4,500	920	2,600	-	240						
			11/03/92	DOF	Unknown	-	-	-	-	-	-	-	-	-	-	-	-	-	690	160	620	-	40	U				
			01/29/09	DOF	Peristaltic	50.0	U	-	-	-	0.500	U	0.500	U	0.500	U	1.00	U	1.78	0.200	U	2.64	0.200	U	2.75			
			05/03/10	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	1	U	1	U	1.2	1	U	1	U	2.8			
			06/02/11	SES	Peristaltic	100	U	120	x	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	2.1		
			09/05/12	SES	Peristaltic	-	-	-	-	-	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.2	U
			03/21/17	PES	Peristaltic	42.8	J	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	1.08	3.17	20.0	0.242	J	8.65				
			06/20/17	PES	Peristaltic	38.5	-	-	-	-	0.167	J	0.619	0.158	U	0.316	U	1.19	0.878	37.3	0.445	J	43.9					
			04/06/18	PES	Peristaltic	31.6	U	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	1.85	2.24	19.4	0.277	J	26.9				
			01/25/19	PES	Peristaltic	-	-	-	-	-	0.142	J	0.412	U	0.158	U	0.316	U	0.328	J	1.07	12.5	0.152	U	9.14			
SCL-MW101	-	Alley Between 8th & 9th Ave N	03/28/17	PES	Peristaltic	-	-	-	6.74	0.624	U	0.598	2.08	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U					
			06/14/17	PES	Peristaltic	-	-	-	18.6	1.68	17.1	3.50	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U						
			04/06/18	PES	Peristaltic	-	-	-	10.6	1.24	11.7	3.32	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U						
SCL-MW105	-	Alley Between 8th & 9th Ave N	03/28/17	PES	Peristaltic	-	-	-	257	16.3	26.5	33.9	0.995	U	0.765	U	0.466	U	0.760	U	0.590	U						
			06/15/17	PES	Peristaltic	-	-	-	208	14.3	109	40.8	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U						
			04/06/18	PES	Peristaltic	-	-	-	181	12.1	26.6	28.4	1.99	U	1.53	U	0.933	U	1.52	U	1.18	U						
SCS-2	-	800 Aloha St Parcel	03/20/17	PES	Peristaltic	1,660	-	-	51.8	9.54	155	181	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U						
SCS-2 (continued)	-		06/12/17	PES	Peristaltic	901	-	-	58.9	4.49	141	70.4	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U						
			04/13/18	PES	Peristaltic	-	-	-	44.3	5.18	37.3	47.7	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U						
SMW-3	-	Valley St ROW	03/30/17	PES	Peristaltic	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
			06/21/17	PES	Peristaltic	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
			04/09/18	PES	Peristaltic	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U		
<b>Decommissioned Wells</b>																												
R-MW4	25.94 to 10.94	Roy St ROW	10/24/92	Roux	Unknown	410	201	1000	U	0.5	U	2	1	4	814	64	-	5	U	5	U							
			10/24/92	DOF	Unknown	640	-	-	0.5	U	1.8	0.5	U	3.1	31	2.8	2.0	U	-	2.0	U							
Decommissioned before 2009																												
MW-1	-	800 Aloha St Parcel	03/22/93	EPJ	Bailer	5,100	500	U	1000	U	10,000	270	480	427	-	-	-	-	-									
			06/17/93	Retec	Unknown	-	-	-	20,000	14,000	840	6,700	-	-	-	-	-	-	-									
Decommissioned on October 12, 1993																												
MW-2	-	8th Ave North ROW	03/22/93	EPJ	Bailer	650	500	U	1000	U	100	42	24	67	-	-	-	-	-									
			06/17/93	Retec	Unknown	-	-	-	28	7.2	1	U	2	U	170	1,400	9,300	25	1,100									
Decommissioned on October 12, 1993																												
MW-3	-	800 Aloha St Parcel	03/22/93	EPJ	Bailer	27,000	500	U	1000	U	1,500	3,300	690	3,500	-	-	-	-	-									
			06/17/93	Retec	Unknown	-	-	-	4,800	21,000	1,900	12,300	-	-	-	-	-	-										
Decommissioned on October 12, 1993																												
MW-4	-	800 Aloha St Parcel	03/22/93	EPJ	Bailer	940	500	U	1000	U	82	390	39	108	-	-	-	-	-									
			06/17/93	Retec	Unknown	-	-	-	1	U	1	U	1	U	2	U	-	-	-	-								
Decommissioned on October 12, 1993																												
MW-5	-	8th Ave North ROW	03/22/93	EPJ	Bailer	670	500	U	1000	U	49	140	9.8	80	-	-	-	-	-									
			06/17/93	Retec	Unknown	-	-	-	1	U	1	U	1	U	2	U	-	-	-	-								
Decommissioned on October 12, 1993																												

Table C-8

**Groundwater Analytical Data for Shallow Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Well Screen Elevation (ft)	Sample Area	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)											
						GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
<b>Screening Level</b>						<b>800</b>	<b>500</b>	<b>500</b>	<b>0.5</b>	<b>72</b>	<b>29</b>	<b>10,000</b>	<b>2.4</b>	<b>1</b>	<b>16</b>	<b>100</b>	<b>0.2</b>
Number of Analytes Measured						98	25	25	144	144	144	144	150	150	146	144	150
Number of Analytes Detected						48	16	8	65	59	35	41	93	80	99	51	84
Frequency of Detection						49%	64%	32%	45%	41%	24%	28%	62%	53%	68%	35%	56%
Maximum Detection						150,000	26,000	25,000	20,000	22,000	3,100	15,000	176,000	13,000	9,300	1,000	1,100
Minimum Detection						31.6 U	34.0	250 U	0.001 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
<p><u>Notes:</u></p> <p>VOCs analyzed by EPA Methods 8015, 8020, 8021B, 8240, 8260B, or 8260C or by Purge and Trap Gas Chromatogram/Mass Spectrometry or EPA Method 601, 8010S, 8240, 8260B, or 8260C.</p> <p>* = Monitoring well was installed at a 25 degree angle from the vertical point of penetration.</p> <p>(dup) = duplicate</p> <p>cDCE = cis-1,2-dichloroethene</p> <p>DOF = Dalton, Olmsted &amp; Fuglevand, Inc.</p> <p>DRO = diesel-range organics</p> <p>GeoE = GeoEngineers, Inc.</p> <p>GRO = gasoline-range organics</p> <p>MTCA = Washington State Model Toxics Control Act</p> <p>ORO = oil-range organics</p> <p>PCE = perchloroethylene (tetrachloroethene)</p> <p>Roux = Roux Associates</p> <p>SES = SoundEarth Strategies, Inc.</p> <p>TCE = trichloroethene</p> <p>tDCE = trans-1,2-dichloroethene</p> <p>VC = vinyl chloride</p> <p>WAC = Washington Administrative Code</p> <p>WW = Windward Environmental LLC</p> <p><u>Laboratory and Results Notes:</u></p> <p>Detected results shown in bold, detections above the screening level highlighted in gray</p> <p>-- = Not analyzed or results not available</p> <p>B = the same analyte is found in the associated blank</p> <p>c = Reported as total 1,2,-DCE (sum of cis,-1,2- and trans,1-2-DCE isomers)</p> <p>E = Estimated value. The reported range exceeds the calibration range of the analysis</p> <p>f = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank</p> <p>g = Estimated value. The reported range exceeds the calibration range of the analysis</p> <p>J = the identification of the analyte is acceptable; the reported value is an estimate</p> <p>qp = Hydrocarbon result partly due to individual peak(s) in quantitation range</p> <p>U = not detected at or above the laboratory method detection limit (MDL)</p> <p>x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation</p> <p>y = The GRO result in the sample is due to a pattern of peaks that is consistent with the chlorinated volatiles detected by the 8260C analysis</p>																	



Table C-9

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																			
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC								
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2								
<b>Intermediate A Water-Bearing Zone, On Property</b>																								
G-MW1 (9.01 to 4.01)  (duplicate)	The Property	07/24/01	Geo	Peristaltic	–	–	–	0.449	17.6	E	0.798	5.52	85,500	1,130	23.3	g	0.956	74.5	g					
		01/29/09	DOF	Peristaltic	41,300	qp	–	–	20.0	U	20.0	U	28.6	55.1	78,400	f	1,160	34.4	1.49	0.200	U			
		06/03/11	SES	Peristaltic	29,000	x	92	x	250	U	–	–	–	–	78,000	–	1,100	22	–	–	33			
		09/06/12	SES	Peristaltic	–	–	–	–	0.35	U	7.4	1	U	1.1	66,000	–	1,100	32	1.5	–	35			
		09/06/12	SES	Peristaltic	–	–	–	–	0.35	U	7.6	1	U	1.0	64,000	–	1,100	30	1.4	–	33			
		Decommissioned																						
G-MW3 (13.55 to 3.55)	The Property	07/24/01	Geo	Peristaltic	–	–	–	0.524	6.93	E	0.459	2.10	47,700	385	g	0.200	U	3.71	42.5	g				
		12/10/04	DOF	Bailer	–	–	–	2	U	7	2	U	2	220,000	–	1,200	570	6	19					
		01/29/09	DOF	Peristaltic	26,600	qp	–	–	12.5	U	12.5	U	12.5	U	64,000	f	1,580	4,050	13.9	0.200	U			
		06/02/11	SES	Peristaltic	19,000	xy	210	x	250	U	350	U	1,000	U	3,000	U	33,000	–	1,400	1,500	1000	U		
		09/06/12	SES	Peristaltic	–	–	–	–	0.35	U	1.5	1	U	3	U	31,000	–	1,200	1,600	5.9	290			
		Decommissioned																						
MW131 (-4.61 to -14.61)	Property	03/27/17	SES	Peristaltic	91.9	J	–	–	0.199	J	0.462	J	0.158	U	0.316	U	0.199	U	0.153	U	243	0.981	804	
		06/20/17	PES	Peristaltic	31.6	U	–	–	0.448	U	2.06	U	0.790	U	1.58	U	0.995	U	0.765	U	2.55	0.760	U	
		04/16/18	PES	Peristaltic	55.3	U	–	–	0.142	J	0.412	U	0.158	U	0.316	U	7.05	–	3.25	–	10.4	0.276	J	
		10/25/18	PES	Peristaltic	57.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.895	–	0.347	J	1.65	J+	0.152	U
		12/12/18	PES	Peristaltic	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.172	J	1.2	–	0.152	U
		01/29/19	PES	Peristaltic	43.7	J	–	–	0.182	J	0.516	J+	0.158	U	0.316	U	0.199	U	0.153	U	0.774	–	0.152	U
		03/11/19	PES	Peristaltic	31.6	U	–	–	0.152	J	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.250	J	0.152	U
MW-149 (0.66 to -9.34)  (duplicate)	Property	04/10/18	PES	Peristaltic	11,700	z	–	–	44.8	U	2.06	U	0.813	J	1.64	J	19,200	8,050	10,500	29.8	863			
		10/25/18	PES	Peristaltic	4,570	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	6,100	2,720	3,320	15.3	100			
		12/13/18	PES	Peristaltic	11,400	–	–	–	0.0896	U	0.717	–	0.158	U	0.414	J	23,300	5,470	5,150	18.2	253			
		12/13/18	PES	Peristaltic	11,400	–	–	–	0.0896	U	0.717	–	0.158	U	0.392	J	24,500	5,780	5,210	18.2	243	J		
		01/29/19	PES	Peristaltic	14,400	J+z	–	–	8.96	U	41.2	U	15.8	U	31.6	U	23,700	3,800	4,350	15.2	U	155		
MW-151 (4.94 to -5.06)	Property	04/10/18	PES	Peristaltic	74.6	U	–	–	0.253	J	0.412	UJ	0.158	UJ	0.316	U	1.13	–	0.310	J	59.1	J-	0.388	J-
		10/25/18	PES	Peristaltic	99.4	U	–	–	0.167	J	0.412	U	0.158	U	0.316	U	2.28	–	1.38	–	5.80	–	0.346	J
		12/14/18	PES	Peristaltic	1,040	–	–	–	0.342	J	0.44	J	0.158	U	0.316	U	1,460	–	155	–	1,690	–	4.56	–
		01/31/19	PES	Peristaltic	340	J+z	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	106	–	40.4	–	466	–	3.52	–

Table C-9

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2	
<b>Intermediate A Water-Bearing Zone, Off Property</b>																	
BB-5	South of Mercer St ROW	11/17/97 Decommissioned	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	1.1	ND	ND	
BB-7	Westlake Ave North ROW	11/17/97 Decommissioned	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BB-8 (13.69 to 3.69)	Roy St ROW	06/24/97	B&V	Bailer	200 U	500 U	1000 U	1.8	1.3	1.0 U	1.0 U	11,000	1,500	4,200	14	280	
		01/29/09	DOF	-	499	-	-	0.694	0.500 U	0.500 U	1.00 U	896 f	258	441	2.45	1.48	
		05/03/10	SES	Peristaltic	-	-	-	-	-	-	-	510	120	110	1 U	0.27	
		06/02/11	SES	Peristaltic	130 xy	50 U	250 U	0.35 U	1 U	1 U	3 U	170	59	44	1 U	0.2 U	
		09/05/12	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	200	41	28	1 U	0.2 U	
		12/29/13	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	200	38	24	1 U	0.2 U	
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	170	40	37	10 U	2.0	
		03/22/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	30.4	4.95	3.10	0.152 U	0.118 U	
		06/14/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	26.0	8.57	12.6	0.155 J	0.118 U	
		(duplicate)		04/11/18	PES	Peristaltic	40.9 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	33.7 J	6.13 J	4.64 J	0.152 U
		04/11/18	PES	Peristaltic	41.5 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	46.8 J	8.41 J	6.28 J	0.152 U	0.118 U	
		01/23/19	PES	Peristaltic	99.6 J	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	133	43.1	81.5	0.402 J	0.618	
BB-8A	Roy St ROW	01/29/09	DOF	Peristaltic	669	-	-	0.500 U	0.500 U	0.500 U	1.00 U	1,290 f	285	549	2.96	3.86	
		05/03/10	SES	Peristaltic	-	-	-	-	-	-	-	810	180	140	1.6	0.78	
		06/02/11 Decommissioned	SES	Peristaltic	380 xy	50 U	250 U	3.5 U	10 U	10 U	30 U	710	170	170	10 U	2 U	
BB-12	9th Ave North ROW	05/19/98	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	540	ND	380	
		05/02/10 Decommissioned	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U	
BB-12A	9th Ave North ROW	05/02/10 Decommissioned	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U	
GEI-MW-1	739 9th Ave N	09/06/14	Geo	Peristaltic	50.0 U	50.0 U	100 U	1.00 U	1.00 U	-	1.00 U	0.250	0.240	1.00 U	0.500 U	0.200 U	
GEI-MW-2	739 9th Ave N	09/06/14	Geo	Peristaltic	28.9	50.0 U	100 U	14.1	4.44	-	1.00 U	1.00 U	0.410	1.00 U	0.500 U	1.34	
GEI-MW-3	739 9th Ave N	09/06/14	Geo	Peristaltic	50.0 U	50.0 U	100 U	1.00 U	9.03	-	1.00 U	1.00 U	0.610	1.00 U	0.500 U	3.14	
GEI-1 (1.15 to -8.85)	Block 37	03/24/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		06/13/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.244 J	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	

Table C-9

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)														
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC			
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2			
MW107 (8.81 to -1.18)	8th Ave North ROW (duplicate)	12/21/12	SES	Peristaltic	240,000 xy	190 x	250 U	3.5 U	10 U	10 U	30 U	47,000	2,800	5,100	41	200			
		12/21/12	SES	Peristaltic	-	-	-	-	-	-	-	50,000	3,000	5,200	44	270			
		12/16/13	SES	Peristaltic	-	-	-	0.37 U	1.8	1 U	3.3	32,000	2,400	4,000	34	76			
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	1,900	5,000	5,000	100 U	40			
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	2,300	5,100	3,600	60	27			
		11/10/15	SES	Peristaltic	-	-	-	-	-	-	-	620	3,800	4,400	54	31			
		12/11/15	SES	Peristaltic	-	-	-	-	-	-	-	1,200	4,200	4,200	57	22			
		01/08/16	SES	Peristaltic	-	-	-	-	-	-	-	1,000	3,600	3,900	50	20			
		02/01/16	SES	Peristaltic	-	-	-	-	-	-	-	61	220	10,000	33	73			
		03/27/17	PES	Peristaltic	-	-	-	0.204 J	0.690 J	0.158 U	0.316 U	0.224 J	0.370 J	6.82	14.0	34.5			
		06/19/17	PES	Peristaltic	-	-	-	0.238 J	0.700	0.158 U	0.316 U	0.199 U	0.290 J	7.29	12.6	15.0			
		04/09/18	PES	Peristaltic	-	-	-	0.193 J	0.412 U	0.158 U	0.316 U	0.879 J-	0.581 J-	72.1 J-	10.5	123			
		01/30/19	PES	Peristaltic	663 J+z	-	-	0.215 J	0.715	0.158 U	0.316 U	0.199 U	41.1	1,130	14.4	474			
MW108 (-7.22 to -17.22)	Alley Between 8th and 9th Ave North  (duplicate)	12/21/12	SES	Peristaltic	-	-	-	-	-	-	-	3.4	1.8	400	2.1	210 pr			
		12/17/13	SES	Peristaltic	-	-	-	1.9	1 U	1 U	3 U	3.8	4.6	360	3.6	150			
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	4.0	11	370	3.5	260			
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	3.0	6.4	220	1.8	140			
		02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	15	7.9	290	1.8	180			
		03/28/17	PES	Peristaltic	-	-	-	1.59	0.479 U	0.158 U	0.316 U	73.1	12.5	278	0.899	52.3			
		06/27/17	PES	Bladder	-	-	-	1.26	0.479 U	0.158 UJ	0.316 U	194	22.1	165	0.748	52.8			
		04/06/18	PES	Peristaltic	-	-	-	4.00	0.599	0.158 UJ	0.316 U	1,970	284	1,030	7.13	217			
		04/06/18	PES	Peristaltic	-	-	-	3.83	0.597	0.158 UJ	0.316 U	1,980	287	1,020	7.91	231			
01/22/19	PES	Peristaltic	-	-	-	1.67	0.562	0.158 U	0.316 U	4,190	587	1,180	6.03	90.8					
MW109 (-0.03 to -10.03)	Alley Between 8th and 9th Ave North	12/21/12	SES	Peristaltic	-	-	-	-	-	-	-	91	64	18	1 U	1.5			
		12/17/13	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	4.0	18	310	1 U	27			
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	370	890	520	1.2	26			
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	230	790	400	20 U	22			
		02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	34	330	270	1 U	19			
		03/29/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.198 J	12.6	0.152 U	3.49			
		06/27/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 UJ	0.316 U	9.69 J	1.17	163	1.17	6.06			
		04/06/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.99 UJ	210	629	3.34	42.2			
		01/23/19	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.995 U	43.8	403	2.08	36.8			

Table C-9

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2	
MW110 (4.67 to -5.33)	Alley Between 8th and 9th Ave North          (duplicate)	12/21/12	SES	Bladder	-	-	-	-	-	-	-	-	1,100	220	470	3.0	33
		12/19/13	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	930	240	840	3.9	31	
		04/22/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1,000	210	340	2.4	1
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1,000	200	470	10 U	12
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	-	890	180	380	2.2	13
		02/01/16	SES	Peristaltic	-	-	-	-	-	-	-	-	1,300	290	460	3.0	1.1
		03/23/17	PES	Peristaltic	-	-	-	0.330 J	0.412 U	0.158 U	0.316 U	1,070	389	644	4.72	1.45	
		06/27/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 UJ	0.316 U	259	176	1,120	2.66	152	
		04/09/18	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	375 J-	253 J-	675 J-	3.72	3.54	
		01/23/19	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1,260	490	673	5.83	1.39	
01/23/19	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1,120	499	718	6.49	1.51			
MW114 (10.84 to 0.84)	SDOT property south of Roy Street	12/21/12	SES	Peristaltic	-	-	-	-	-	-	-	1,400	290	260	1 U	14	
		12/18/13 Destroyed	SES	Peristaltic	-	-	-	17 U	50 U	50 U	150 U	8,400	1,300	640	50 U	22	
MW115 (-0.86 to -10.86)	9th Ave North ROW	12/13/12	SES	Peristaltic	-	-	-	-	-	-	-	-	15	1.1	3.0	1 U	2.6
		12/21/12	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	3.0	38	1 U	16
		12/19/13	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.75
		04/21/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	17	170	1 U	20
		06/25/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	6.2
		10/27/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.31
		02/03/16	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	2.3
		03/22/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.643	0.152 U	15.7	
		06/22/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.523	0.152 U	8.45	
		04/11/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.272 J	0.152 U	5.81	
01/30/19	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.316 J	0.152 U	12.4			
MW116 (-3.64 to -13.64)	9th Ave North ROW	12/07/12	SES	Peristaltic	-	-	-	-	-	-	-	-	6.8	1 U	1 U	1 U	0.2 U
		12/21/12	SES	Peristaltic	-	-	-	-	-	-	-	-	2.7	1 U	1 U	1 U	0.2 U
		12/19/13	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		06/25/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U
		02/03/16	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U
		03/21/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		06/16/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.303 J	0.0933 U	0.152 U	0.118 U	
		04/11/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		01/30/19	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.655	0.152 U	0.118 U	

Table C-9

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																							
					GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC	
					800	U	500	U	500	U	0.5	U	72	U	29	U	10,000	U	2.4	U	1	U	16	U	100	U	0.2	U
MW117 (16.90 to 1.90)	Dexter Ave North ROW	02/08/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	1	U	1	U	1	U	1	U	0.2	U				
		12/18/13	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	0.2	U		
		Destroyed																										
MW118 (12.91 to 2.91)	Mercer St ROW	03/25/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	1	U	1	U	1	U	1	U	0.2	U				
		12/18/13	SES	Peristaltic	100	U	50	U	250	U	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	0.2	U		
		Destroyed																										
MW119 (2.35 to -7.65)	9th Ave North ROW	03/25/13	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	1	U	1	U	3.3	U	1	U	0.2	U				
		12/19/13	SES	Peristaltic	-	-	-	0.35	U	1	U	1	U	3	U	1	U	1	U	2.5	U	1	U	0.76	U			
		04/21/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	34	U	42	U	50	U	1	U	3.1	U				
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	4.9	U	7.1	U	52	U	1	U	2.7	U				
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	15	U	22	U	74	U	1	U	0.45	U				
		02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	7.3	U	24	U	100	U	1	U	0.45	U				
		03/29/17	PES	Peristaltic	-	-	-	0.139	U	0.412	U	0.158	U	0.316	U	5.47	U	10.7	U	42.9	U	0.334	J	0.272	J			
		06/28/17	PES	Bladder	-	-	-	0.0896	U	0.726	U	0.158	U	0.562	J	19.0	U	12.4	U	5.99	U	0.167	J	0.118	U			
		04/05/18	PES	Peristaltic	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	2.14	U	3.02	U	18.3	U	0.203	J	0.118	U			
		01/21/19	PES	Peristaltic	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	1.24	U	0.153	U	0.0933	U	0.152	U	0.118	U			
MW120 (0 to -10)	8th Ave North ROW	12/19/13	SES	Peristaltic	100	U	50	U	440	x	0.35	U	1	U	1	U	3	U	2.8	U	2.3	U	19	U	9.6	U		
		06/16/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	1	U	1	U	4.3	U	1	U	0.2	U				
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	1	U	1.1	U	5.2	U	1	U	0.94	U				
		02/01/16	SES	Peristaltic	-	-	-	-	-	-	-	-	-	-	1.3	U	1.6	U	6.7	U	1	U	1.1	U				
		03/28/17	PES	Peristaltic	-	-	-	0.0896	U	0.458	U	0.158	U	0.316	U	13.9	U	5.81	U	18.4	U	0.152	U	0.871	U			
		06/28/17	PES	Bladder	-	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	18.0	U	6.97	U	16.0	U	0.152	U	0.988	U			
		04/09/18	PES	Peristaltic	31.6	U	-	-	-	0.0896	U	0.412	U	0.316	U	0.199	U	0.153	U	0.811	U	0.152	U	0.118	U			
		01/24/19	PES	Peristaltic	105	J+z	-	-	-	0.0896	U	0.412	U	0.316	U	125	U	34.3	U	60.5	U	0.194	J	1.64	U			
MW127 (-0.96 to -10.96)	8th Ave North ROW	01/03/14	SES	Peristaltic	-	-	-	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.29	U			
		01/13/14	SES	Peristaltic	-	-	-	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	1	U	0.30	U			
MW-142 (2.44 to -7.56)	8th Ave North ROW  (duplicate)	04/27/18	PES	Peristaltic	49.3	U	-	-	0.514	U	0.412	U	0.316	U	0.523	U	1.40	U	46.1	U	0.474	J	17.2	U				
		01/28/19	PES	Peristaltic	31.6	U	-	-	0.442	J	0.412	U	0.316	U	0.199	U	0.153	U	5.62	U	0.152	U	3.45	U				
		01/28/19	PES	Peristaltic	31.6	U	-	-	0.410	J	0.412	U	0.316	U	0.199	U	0.208	J	5.67	U	0.152	U	3.38	U				
MW-144 (3.87 to -6.13)	8th Ave North ROW	04/27/18	PES	Peristaltic	364	J	-	-	0.0896	U	1.40	U	0.316	U	1.86	U	3.31	U	662	U	4.65	U	888	U				
		01/28/19	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.316	U	0.199	U	0.251	J	10.4	U	0.489	J	40.4	U				
MW-146 (12.94 to 2.94)	8th Ave North ROW	04/30/18	PES	Bladder	597	U	-	-	0.0896	U	0.412	U	0.316	U	3.56	U	48.4	U	900	U	6.12	U	2,100	U				
		01/22/19	PES	Peristaltic	509	J+z	-	-	0.0896	U	0.412	U	0.316	U	2.29	U	21.6	U	1,080	U	7.25	U	1,370	U				
MW-156 (2.04 to -7.96)	8th Ave North ROW	04/26/18	PES	Peristaltic	1,690	z	-	-	0.283	J	0.479	J	0.316	U	9.95	U	581	U	2,850	U	9.97	U	407	U				
		01/24/19	PES	Peristalti	1,480	J+z	-	-	0.0896	U	0.412	U	0.316	U	1,720	U	723	U	2,050	U	11.5	U	11.8	U				



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Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																					
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC										
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2										
<b>Intermediate B Water-Bearing Zone, On Property</b>																										
MW130 (-30.88 to -40.88)	Property  (duplicate)	03/03/16	SES	Bladder	-	-	-	-	-	-	-	-	6,200	430	300	1	U	38								
		03/29/17	PES	Bladder	8,890	xy	-	-	1.79	U	8.24	U	3.16	U	721	830	7,880	39.3	186							
		06/30/17	PES	Bladder	10,300	Jz	-	-	0.896	U	4.12	U	1.58	U	6,760	J	4,020	20,100	55.6	597						
		06/30/17	PES	Bladder	15,000	Jz	-	-	0.896	U	4.12	U	1.58	U	11,100	J	5,310	21,300	57.3	549						
		05/21/18	PES	Bladder	19,700	z	-	-	0.403	J	1.37	0.227	J	1.12	J	13,500	7,400	29,500	114	1,650						
		12/17/18	PES	Bladder	16,400		-	-	4.48	U	20.6	U	7.90	U	9,650	3,220	26,400	83.5	1,420							
		01/31/19	PES	Bladder	22,400	J+z	-	-	0.377	J	1.51	J+	0.279	J	1.22	J	23,700	4,640	27,700	107	1,740					
MW-132 (-29.90 to -39.90)	Property	09/25/17	PES	Bladder	95.9	U	-	-	0.448	U	2.06	U	0.790	U	1.58	U	0.995	U	1.95	J	196	0.760	U	1.76	J	
		04/26/18	PES	Bladder	2,630	z	-	-	0.422	J	0.412	U	0.158	U	0.32	U	2,830	840	3,300	16.3	10.2					
		10/25/18	PES	Peristaltic	48.3	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	3.53	0.750	12.1	0.254	J	158				
		12/13/18	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.995	U	0.765	U	39.8	0.497	J	199		
		01/31/19	PES	Peristaltic	104	J+z	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	22.9	1.95	108	0.506	269					
MW-134 (-38.55 to -48.55)	Property	09/22/17	PES	Bladder	-	-	-	0.448	U	2.06	U	0.790	U	1.58	U	0.995	U	0.765	U	86.2	0.760	U	229			
		04/16/18	PES	Peristaltic	42.1	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	1.49	0.153	U	0.287	J	0.152	U	68.6		
		10/25/18	PES	Bladder	38.2	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	20.9	
		12/12/18	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.259	J	0.152	U	21.9	
		01/28/19	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.609	0.152	U	32.4		
MW-135 (-30.89 to -40.89)	Property	09/25/17	PES	Bladder	10,900	z	-	-	8.96	U	41.2	U	15.8	U	31.6	U	10,400	2,480	16,100	15.2	U	82.0	J			
		04/25/18	PES	Peristaltic	347,000	z	-	-	0.434	J	3.09	0.484	J	2.61	75,800	7,890	27,700	30.7	989							
		10/25/18	PES	Peristaltic	31,800		-	-	2.24	U	10.3	U	3.95	U	7.90	U	45,900	8,330	40,400	54.4	1,170					
		12/13/18	PES	Peristaltic	80,000		-	-	4.48	U	20.6	U	7.90	U	15.8	U	97,200	11,000	42,100	66.6	1,380					
		01/31/19	PES	Bladder	42,700	J+z	-	-	0.695	J	5.12	J+	0.571	J	3.43	J	56,500	9,530	37,400	68.6	1,090					
MW-136 (-32.73 to -42.73)	Property	09/25/17	PES	Bladder	55.2	U	-	-	0.332	J	0.412	U	0.158	U	0.316	U	15.4	10.7	18.7	0.152	U	0.118	U			
		04/16/18	PES	Submersible	256		-	-	0.260	J	1.83	4.83	25.9	2.59	0.365	J	4.73	0.152	U	8.57						
		10/29/18	PES	Bladder	31.9	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.177	J	1.44	0.152	U	0.236	J	
		12/13/18	PES	Bladder	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.237	J	0.962	0.152	U	0.118	U	
		02/01/19	PES	Bladder	44.5	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	1.26	0.293	U	0.851	0.152	U	0.186	J		
MW-139 (-30.19 to -40.19)	Property	09/25/17	PES	Bladder	62.2	U	-	-	0.0896	U	0.516	0.158	U	0.316	U	0.199	U	0.153	U	1.42	0.152	U	0.246	J		
		04/25/18	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.175	J	0.152	U	0.118	U
		10/25/18	PES	Peristaltic	47.4	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	1.29	0.282	J	0.454	U	0.152	U	0.118	U	
		12/12/18	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.216	J	0.152	U	0.118	U
		01/28/19	PES	Peristaltic	31.6	U	-	-	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
MW-150 (-13.25 to -23.25)	Property	04/10/18	PES	Peristaltic	7,040	z	-	-	22.4	U	1.63	39.5	U	79.0	U	2,500	3,200	9,710	21.1	766						
		10/25/18	PES	Peristaltic	14,600		-	-	0.413	J	2.53	0.226	J	1.13	J	15,200	8,800	17,700	49.7	1,430						
		12/12/18	PES	Peristaltic	17,500		-	-	0.429	J	1.04	0.158	U	0.316	U	75.6	533	32,800	242	2,040						
		01/29/19	PES	Peristaltic	11,900	J+z	-	-	8.96	U	41.2	U	15.8	U	31.6	U	303	548	18,100	36.7	J	1,370				

Table C-9

**Groundwater Analytical Data for Intermediate Zone Wells  
Former American Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
<b>Screening Level</b>					<b>800</b>	<b>500</b>	<b>500</b>	<b>0.5</b>	<b>72</b>	<b>29</b>	<b>10,000</b>	<b>2.4</b>	<b>1</b>	<b>16</b>	<b>100</b>	<b>0.2</b>	
MW-152 (-10.15 to -20.15)	Property	04/10/18	PES	Peristaltic	40,600 z	-	-	224 U	8.24 U	3.27 J	790 U	67,300	6,550	35,300	42.1	3,660	
		10/26/18	PES	Peristaltic	36,700	-	-	4.48 U	20.6 U	7.90 U	15.8 U	1,960	3,150	73,000	109	4,510	
		12/14/18	PES	Peristaltic	47,300	-	-	2.24 U	10.3 U	3.95 U	7.90 U	23,600 J+	6,870 J+	77,100 J+	134 J+	7,830 J+	
		01/31/19	PES	Peristaltic	44,300 J+z	-	-	0.416 J	2.61 J+	0.342 J	2.10	38,300	3,920	58,400	101	9,600	
W-MW-03 (-30.77 to -40.77)	Property	02/03/12	WW	Bladder	-	-	-	20 U	20 U	20 U	60 U	5,300	220	160	20 U	20 U	
		09/06/12	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	13	2.6	20	1 U	120	
		Decommissioned															
W-MW-04* (-32.47 to -41.47)	Property	02/03/12	WW	Bladder	-	-	-	20 U	20 U	20 U	60 U	5,400	160	54	20 U	20 U	
		09/06/12	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	460	440	1,900	4.0	630	
		Decommissioned															
<b>Intermediate B Water-Bearing Zone, Off Property</b>																	
BB-10	Dexter Ave North ROW	11/13/97	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BB-13	Westlake Ave North ROW	06/20/05	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	2.6	ND	1.1	
		05/02/10	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U	
		Decommissioned															
BB-14	North Valley St ROW	06/20/05	B&V	Bailer	300 U	630 U	630 U	-	-	-	-	-	-	-	-	-	
		Decommissioned															
MW111 (-33.52 to -43.52)	Alley Between 8th and 9th Ave North	12/21/12	SES	Bladder	-	-	-	-	-	-	-	110	32	37	1 U	1.8	
		12/17/13	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	4.7	1 U	17	
		04/22/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1.7	1 U	18	
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1.5	1 U	20	
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	8.2	
		02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	2.3	1 U	5.8	
		03/23/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	1.40	0.152 U	5.22	
		06/14/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.408 J	1.24	0.152 U	3.22	
		04/06/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.618	0.153 U	16.5	0.152 U	121	
		01/23/19	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.492 J	0.176 J	1.70	0.152 U	37.6	
MW112 (-17.51 to -27.51)	Dexter Ave North ROW	12/21/12	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U	
		12/26/13	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U	
		03/22/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		06/16/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		04/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		12/21/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	

Table C-9

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																							
					GRO		DRO		ORO		Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE		TCE		cDCE		tDCE		VC	
					Screening Level		800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2										
MW126 (-54.06 to -64.06)	Alley Between 8th and 9th Ave North	01/03/14	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U											
		03/28/17	PES	Peristaltic	-	-	-	<b>0.148 J</b>	0.563 U	0.158 U	0.316 U	0.199 U	0.153 U	<b>0.283 J</b>	0.152 U	0.118 U												
		06/15/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	<b>0.179 J</b>	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U												
		04/06/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U												
		01/22/19	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U												
MW-143 (-27.67 to -37.57)	8th Ave North ROW	04/30/18	PES	Peristaltic	<b>154</b>	-	-	<b>0.244 J</b>	<b>0.797</b>	<b>0.212 J</b>	<b>1.08 J</b>	0.199 U	0.153 U	<b>129</b>	<b>0.512</b>	<b>193</b>												
		01/29/19	PES	Bladder	31.6 U	-	-	<b>0.141 J</b>	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	<b>0.241 J</b>	0.152 U	0.118 U												
MW-145 (-26.14 to -36.14)	8th Ave North ROW	04/27/18	PES	Bladder	52.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>0.212 J</b>	<b>2.29</b>	0.152 U	<b>3.88</b>												
		01/29/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	<b>0.316 J</b>	0.152 U	<b>0.335 J</b>												
MW-147 (-17.64 to -27.64)	Roy St ROW	05/01/18	PES	Bladder	<b>484</b>	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	<b>19.8</b>	<b>83.4</b>	<b>399</b>	<b>2.09</b>	<b>1,150</b>												
		01/22/19	PES	Bladder	<b>663 J</b>	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	<b>98.2</b>	<b>179</b>	<b>1,230</b>	<b>2.88</b>	<b>738</b>												
MW-148 (-25.73 to -35.73)	Roy St ROW (duplicate)	05/01/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U												
		05/01/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	<b>0.216 J</b>	0.152 U	0.118 U												
		01/23/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	<b>1.24</b>	<b>0.347 J</b>	0.0933 U	0.152 U	0.118 U												
MW-157 (-28.29 to -38.19)	8th Ave North ROW	04/26/18	PES	Peristaltic	<b>65.7 J</b>	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	<b>0.950</b>	<b>0.240 J</b>	<b>10.4</b>	<b>0.246 J</b>	<b>104</b>												
		01/24/19	PES	Peristaltic	<b>1,870 J+z</b>	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>1.65</b>	<b>4,250</b>	<b>14.2</b>	<b>674</b>												
PW-1	North Valley St ROW	1997 (8 hour)	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	<b>1.0</b>	ND	ND	ND	ND												
		1997 (Final) Decommissioned	B&V	Bailer	250 U	630 U	630 U	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND											
W-MW-01 (-25.12 to -35.12)	8th Ave North ROW	02/02/12	WW	Bladder	-	-	-	20 U	<b>0.1 J</b>	0.2 U	0.6 U	<b>46</b>	<b>3.9</b>	<b>11</b>	0.2 U	<b>0.5</b>												
		09/06/12	SES	Peristaltic	-	-	-	0.35 U	<b>1.7</b>	1 U	3 U	1 U	1 U	<b>2.0</b>	1 U	<b>2.8</b>												
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	<b>0.46</b>												
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	<b>0.88</b>												
		01/08/16	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	<b>2.5</b>												
		02/01/16	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	<b>2.8</b>												
		03/30/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	<b>0.330 J</b>	<b>0.203 J</b>	<b>0.491 J</b>	0.152 U	<b>1.83 J</b>												
		06/19/17	PES	Bladder	-	-	-	<b>0.158 J</b>	<b>0.931</b>	0.158 U	0.316 U	0.199 U	0.153 U	<b>0.320 J</b>	0.152 U	<b>1.09</b>												
		04/13/18	PES	Bladder	37.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	<b>5.33</b>	<b>1.68</b>	<b>1.31</b>	0.152 U	<b>8.79</b>												
		10/29/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	<b>0.22 J</b>	<b>0.696</b>	<b>0.629</b>	0.152 U	<b>3.9</b>												
		12/13/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>1.77</b>	<b>0.538</b>	0.152 U	<b>3.86</b>												
		01/25/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	<b>0.587</b>	<b>0.459 J</b>	0.152 U	<b>5.46</b>												

Table C-9

**Groundwater Analytical Data for Intermediate Zone Wells  
Former Amereican Linen Supply, 700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)											
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2
W-MW-02 (-26.54 to -36.54)	8th Ave North ROW	02/03/12	WW	Bladder	-	-	-	20 U	20 U	20 U	60 U	6,900	1,700	2,000	20 U	120
		08/13/12	SES	Peristaltic	-	-	-	-	-	-	-	3,000	1,300	2,200	4.1	66
		09/05/12	SES	Peristaltic	-	-	-	0.35 U	1.4	1 U	3 U	2,600	1,300	2,800	5.0	69
		01/03/14	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	490	1,200	4,400	7.3	67
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	10 U	10 U	13,000	95	2,400
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	5 Uht	5 Uht	12,000 ht	97 ht	1,700 ht
		11/10/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	3.4	480	3.6	110
		12/11/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	4.9	900	6.2	2,900
		01/08/16	SES	Peristaltic	-	-	-	-	-	-	-	1 U	3.1	750	26	7,500
		02/01/16	SES	Peristaltic	-	-	-	-	-	-	-	1 U	4.6	2,900	35	2,800
		03/27/17	PES	Peristaltic	-	-	-	0.270 J	0.961 J	0.158 U	0.316 U	0.199 U	0.259 J	33.0	2.16	36.4
		06/19/17	PES	Bladder	-	-	-	0.307 J	0.970	0.158 U	0.316 U	0.199 U	0.153 U	18.2	0.746	25.6
		06/12/18	PES	Bladder	32 U	-	-	0.0896 U	0.829	0.158 U	0.316 U	0.199 U	0.153 U	4.72	0.279 J	4.95
		10/26/18	PES	Peristaltic	90.2 UJ	-	-	0.0896 U	0.641	0.158 U	0.316 U	0.199 U	0.153 U	2.01	0.410 J	1.41
		(duplicate)	10/26/18	PES	Peristaltic	246 J+	-	-	0.0896 U	0.587	0.158 U	0.316 U	0.199 U	0.153 U	2.11 J+	0.435 J
	12/12/18	PES	Peristaltic	158 UJ	-	-	0.0896 U	1.05	0.158 U	0.316 U	0.199 U	0.153 U	1.80	0.463 J	2.30	
	01/25/19	PES	Peristaltic	37.4 J	-	-	0.133 J	2.09	0.158 U	0.316 U	0.199 U	0.153 U	1.83	0.263 J	2.01	
Number of Analytes Measured					110	20	20	187	187	184	187	253	253	253	252	253
Number of Analytes Detected					25	0	0	39	41	15	13	142	161	200	108	187
Frequency of Detection					23%	0%	0%	21%	22%	8%	7%	56%	64%	79%	43%	74%
Maximum Detection					80,000	-	-	14.1	17.6 E	28.6	55.1	220,000	11,000	77,100 J+	242	9,600
Minimum Detection					28.9	50 U	100 U	0.0896 U	0.1 J	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U

**Notes:**  
 Petroleum Hydrocarbons analyzed by EPA Method 418.1 or 8015-M, NWTPH-HCID, or NWTPH-Gx/NWTPH-Dx.  
 VOCs analyzed by EPA Methods 8015, 8020, 8021B, 8240, 8260B, or 8260C OR by Purge and Trap Gas Chromatogram/Mass Spectrometry or EPA Method 601, 8010S, 8240, 8260B, or 8260C.  
 \* Monitoring well was installed at a 25 degree angle from the vertical point of penetration.  
 (dup) = duplicate  
 B&V = Black & Veatch  
 cDCE = cis-1,2-dichloroethene  
 DOF = Dalton, Olmsted & Fuglevand, Inc.  
 DRO = diesel-range organics  
 E = Estimated value. The reported range exceeds the calibration range of the analysis.  
 Geo = GeoEngineers Inc.  
 GRO = gasoline-range organics  
 ORO = oil-range organics  
 PCE = perchloroethylene (tetrachloroethene)  
 ROW = right-of-way  
 SES = SES Strategies, Inc.

TCE = trichloroethene  
 tDCE = trans-1,2-dichloroethene  
 VC = vinyl chloride  
 WW = Windward  
 - = not analyzed  
 Detected results shown in bold, detections above the screening level (see Table 3) highlighted in gray  
 f = Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.  
 ht = The analysis was performed outside the method the method or client-specified holding time requirement.  
 J = Estimated concentration.  
 ND = not detected at a concentration exceeding laboratory reporting limit; detection limit not provided  
 pr = The sample was received with incorrect preservation. The value reported should be considered an estimate.  
 U = not detected at or above the laboratory method detection limit (MDL); detections above the screening level highlighted in gray  
 x = The sample chromatographic pattern does not resemble the fuel standard used for quantitation.  
 y = The GRO result in the sample is due to a pattern of peaks that is consistent with the chlorinated volatiles detected by the 8260C analysis.  
 z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs.

Table C-10

Groundwater Analytical Data for Deep Zone Wells  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
Screening Level					800	500	500	0.5	72	29	10,000	2.4	1	16	100	0.2	
<b>On Property</b>																	
MW101 (-65.51 to -75.51)	Property	07/20/12	SES	Bladder	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U
		09/06/12	SES	Peristaltic	-	-	-	0.35 U	1.4	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U	
Decommissioned 2013																	
MW-133	Property	09/25/17	PES	Bladder	41.2 U	-	-	0.0896 U	0.748	0.158 U	0.316 U	12.7	16.2	13.3	1.13	0.239 J	
		04/25/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.837	0.158 U	0.316 U	0.646	0.516	10.7	0.315 J	3.51	
		10/26/18	PES	Bladder	458	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.92 J+	1.63 J+	7.94	0.257 J	3.43	
		12/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.71	2.75	7.88	0.454 J	5.95	
		02/01/19	PES	Bladder	46.4 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	22.4	9.29	12.4	0.588	4.36	
MW-137	Property	09/25/17	PES	Bladder	58.5 U	-	-	0.0896 U	3.90	0.158 U	0.316 U	15.0	19.1	62.0	0.152 U	0.118 U	
		04/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	1.79	0.152 U	4.26	
		10/26/18	PES	Bladder	86.9 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.896 J+	0.463 U	0.893 J+	0.152 U	0.118 U	
		12/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.437 J	0.152 U	0.357 J	
		02/01/19	PES	Bladder	58.4 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	1.48	0.153 U	0.616	0.152 U	0.365 J	
MW-141	Property	09/22/17	PES	Bladder	-	-	-	0.0896 U	0.941	0.158 U	0.316 U	0.199 U	0.153 U	0.345 J	0.152 U	0.457 J	
		04/12/18	PES	Submersible	326	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	71.3 J+	25.6 J+	91.6 J+	5.68 J+	7.01 J+	
		10/25/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	3.10	0.152 U	0.118 U	
		12/12/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	1.46	0.152 U	0.520	
		01/30/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.479 J	0.152 U	0.118 U	
MW-162	Property	02/05/19	PES	Bladder	-	-	-	1.00 U	1.00 U	1.00 U	1.00 U	2,800	613	1,070	9.58	128	
MW-163 (duplicate)	Property	02/05/19	PES	Bladder	-	-	-	1.00 U	1.00 U	1.00 U	1.00 U	218	150	42.2	1.00 U	2.95	
		02/05/19	PES	Bladder	-	-	-	1.00 U	1.00 U	1.00 U	1.00 U	220	153	40.3	1.00 U	3.45	
MW-164	Property	02/05/19	PES	Bladder	-	-	-	1.00 U	1.80	1.00 U	1.00 U	871	372	385	3.41	4.41	
<b>Off Property</b>																	
FMW-129 (-45 to -50)	SDOT Property South of Roy St	05/23/14	Farallon	Unknown	-	-	-	-	-	-	-	0.40	0.57	17	ND	7.6	
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	25	39	250	1 U	0.2 U	
		02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	13	61	240	1 U	0.330	
		04/10/17	PES	Peristaltic	-	-	-	0.448 U	2.06 U	0.790 U	1.58 U	194	492	1,420	5.05	0.885 J	
		06/23/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	81.1	182	474	1.21	0.413	
FMW-131 (-34.65 to -44.65)	Block 37	09/02/16	Farallon	Unknown	-	-	-	-	-	-	-	0.20 U	0.20 U	41	0.20 U	1.7	
		03/24/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	45.6	0.152 U	0.249 J	
		06/23/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	3.61	0.152 U	0.264 J	
		12/18/17	Farallon	-	-	-	-	-	-	-	-	0.20 U	0.20 U	0.61	0.20 U	0.20 U	



Table C-10

Groundwater Analytical Data for Deep Zone Wells  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)											
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
FMW-3D	Block 31	03/24/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
		06/23/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
GEI-2 (-21.12 to -31.12)	Block 37	03/24/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	2.25	0.152 U	6.94
		06/23/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	16.3	0.152 U	127
MW102 (-65.81 to -75.81)	Valley St ROW	08/16/12	SES	Peristaltic	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		09/05/12	SES	Bladder	–	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U
		12/17/13	SES	Bladder	–	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Bladder	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		02/02/16	SES	Bladder	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		03/29/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.223 J	0.152 U	0.118 U
		06/15/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U
		04/25/18	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.352 J	0.153 U	0.0933 U	0.152 U	0.118 U
01/24/19	PES	Bladder	31.6 U	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.22 J	0.153 U	0.0933 U	0.152 U	0.118 U		
MW103 (-67.58 to -77.58) (duplicate)  (duplicate)	Alley East of 8th Ave North	07/31/12	SES	Peristaltic	–	–	–	–	–	–	–	12	25	150	10 U	79
		09/05/12	SES	Peristaltic	–	–	–	0.35 U	1.6	1 U	3 U	8.3	22	80	1 U	110
		09/05/12	SES	Peristaltic	–	–	–	0.35 U	1.6	1 U	3 U	8.1	22	85	1 U	120
		12/18/13	SES	Peristaltic	–	–	–	0.35 U	2.4	1 U	3 U	4.3	6.1	8.6	1 U	1.2
		12/18/13	SES	Peristaltic	–	–	–	0.35 U	2.4	1 U	3 U	4.0	5.2	7.1	1 U	0.94
		06/17/15	SES	Peristaltic	–	–	–	–	–	–	–	1.8	1.4	1 U	1 U	0.94
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	3.6	1.4	1 U	1 U	1.6
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	1.0	1 U	1.2	1 U	0.53
		03/29/17	PES	Peristaltic	–	–	–	0.0896 U	0.464 J	0.158 U	0.316 U	1.99 U	23.1	240	0.405 J	157
		06/14/17	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.626	23.0	120	0.369 J	69.2
		04/06/18	PES	Peristaltic	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	1.81	32.4	0.152 U	22.4
		01/23/19	PES	Peristaltic	–	–	–	0.0896 U	1.35	0.158 U	0.316 U	0.365 J	1.48	11.4	0.152 U	6.68
MW104 (-76.32 to -86.32)	8th Ave North ROW	08/16/12	SES	Peristaltic	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		09/06/12	SES	Bladder	–	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U
		12/17/13	SES	Bladder	–	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Peristaltic	–	–	–	–	–	–	–	2.6	4.4	4.3	1 U	0.2 U
		02/02/16	SES	Bladder	–	–	–	–	–	–	–	1 U	1.2	19	1 U	0.2 U
		03/30/17	PES	Bladder	–	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	3.97	0.152 U	0.118 U
		06/30/17	PES	Bladder	–	–	–	0.387 J	0.903	0.158 U	0.396 J	5.83	5.21	1.54	0.152 U	0.118 U
		04/09/18	PES	Peristaltic	81.3 J	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	0.541	2.00	176	1.02	32.3
		10/26/18	PES	Bladder	1,570	–	–	0.0896 U	0.618 J+	0.158 U	0.316 U	1.87 J+	2.94 J+	71.2	0.257 J	43.5
02/01/19	PES	Bladder	191 J+z	–	–	0.0896 U	0.412 U	0.158 U	0.316 U	12.1	3.22	30.6	0.326 J	32.4		

Table C-10

Groundwater Analytical Data for Deep Zone Wells  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)												
					GRO	DRO	ORO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
MW105 (-85.83 to -95.83)	Roy Street ROW	08/16/12	SES	Peristaltic	-	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.32
		09/05/12	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.23
		12/29/13	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		04/12/15	SES	Peristaltic	-	-	-	-	-	-	-	1.2	1.6	1 U	1 U	1 U	0.2 U
		06/17/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	0.2 U
		02/03/16	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	1.6
		04/21/17	PES	Bladder	-	-	-	0.0896 U	0.544 J	0.158 U	0.316 U	0.199 U	0.153 U	0.155 J	0.152 U	1.95	
		06/14/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.356 J	0.180 J	0.152 U	0.514	
		04/11/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	1.67	0.152 U	0.205 J	
01/23/19	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.790	0.317 J	1.51	0.152 U	0.392 J			
MW106 (-78.01 to -88.01)	SDOT Property South of Roy St	08/22/12	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	
		09/05/12	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		12/17/13	SES	Bladder	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	1 U	0.2 U
		10/27/15	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	0.2 U
		02/02/16	SES	Bladder	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	1 U	0.2 U
		04/14/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		06/30/17	PES	Bladder	-	-	-	0.0896 U	0.419 J	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		05/04/18	PES	Bladder	31.6 U	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
MW113 (-37.06 to -47.06)	9th Ave North ROW	12/21/12	SES	Peristaltic	-	-	-	-	-	-	-	1.3 i	440	5,500	4.1	150	
		12/19/13	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	13	140	1 U	0.41	
		06/25/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	19	670	1 U	17	
		10/27/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	4.5	670	1.2	17	
		02/03/16	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1.1	1,500	2.2	13	
		03/22/17	PES	Peristaltic	-	-	-	2.60	0.412 U	0.158 U	0.316 U	0.199 U	27.1	7,280	25.4	63.5	
		06/16/17	PES	Bladder	-	-	-	0.468 J	0.412 U	0.158 U	0.316 U	0.522	148	4,750	28.2	53.3	
		04/11/18	PES	Peristaltic	-	-	-	0.880	0.412 U	0.158 U	0.316 U	191	1,100	3,720	21.3	34.9	
		01/30/19	PES	Peristaltic	-	-	-	1.02 J	2.06 U	0.790 U	1.580 U	0.995 U	2.81	6,330	22.8	34.8	
		02/07/19	PES	Peristaltic	3,100 J+z	-	-	0.811	0.412 U	0.158 U	0.316 U	0.199 U	1.77	6,990	25.7	46.0	
MW122 (-74.97 to -88.97)	Alley East of 800 Aloha St	12/23/13	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U	
		10/20/15	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U	
		02/02/16	SES	Peristaltic	-	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U	
		03/28/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		06/14/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.162 J	0.0933 U	0.152 U	0.118 U	
		04/06/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
MW123 (-42.49 to -52.49)	Westlake Ave North ROW	12/23/13	SES	Peristaltic	-	-	-	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U	
		04/01/17	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		06/24/17	PES	Bladder	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
		04/14/18	PES	Peristaltic	-	-	-	0.0896 U	0.412 U	0.158 U	0.316 U	0.284 J	0.153 U	0.0933 U	0.152 U	0.118 U	

Table C-10

Groundwater Analytical Data for Deep Zone Wells  
700 Dexter Avenue North, Seattle, Washington

Sample Location	Area Location	Sample Date	Sampled By	Sampling Method	Analytical Results (micrograms per liter)																					
					GRO		DRO	ORO	Benzene		Toluene		Ethylbenzene		Total Xylenes		PCE	TCE	cDCE	tDCE	VC					
MW124 (-53.76 to -63.76) (duplicate)	Valley Street ROW	12/26/13	SES	Bladder	–	–	–	0.35	U	1	U	1	U	3	U	1	U	1	U	1	U	0.2	U			
		03/29/17	PES	Bladder	–	–	–	0.0896	U	0.785	U	0.158	U	0.316	U	<b>1.60</b>	<b>0.596</b>	<b>0.661</b>	0.152	U	0.118	U				
		03/29/17	PES	Bladder	–	–	–	0.0896	U	0.675	U	0.158	U	0.316	U	<b>1.22</b>	<b>0.433</b>	<b>0.600</b>	0.152	U	0.118	U				
		06/15/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U	
		04/13/18	PES	Bladder	39.4	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
MW128	Westlake Ave North ROW	01/13/14	SES	Peristaltic	–	–	–	0.35	U	1	U	1	U	3	U	1	U	1	U	<b>960</b>	ve	1	U	<b>290</b>	ve	
		04/22/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	1	U	1	U	<b>150</b>		1	U	<b>59</b>		
		10/20/15	SES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	1	U	1	U	<b>7.0</b>		1	U	<b>95</b>		
		02/02/16	SES	Peristaltic	–	–	–	–	–	–	–	–	–	–	–	1	U	1	U	<b>70</b>		1	U	<b>140</b>		
		03/29/17	PES	Peristaltic	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>7.16</b>		0.152	U	<b>72.4</b>		
		06/21/17	PES	Bladder	–	–	–	<b>3.84</b>		<b>0.541</b>		0.158	U	0.316	U	0.199	U	0.153	U	<b>109</b>		0.152	U	<b>195</b>		
		04/09/18	PES	Peristaltic	–	–	–	<b>28.3</b>		0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>3.07</b>		0.152	U	<b>31.0</b>		
MW-138	Dexter Ave N ROW	09/21/17	PES	Bladder	<b>63.3</b>	J	–	–	0.179	U	<b>2.60</b>		0.316	U	0.632	U	0.398	U	0.306	U	0.187	U	0.304	U	0.236	U
		04/11/18	PES	Bladder	91.1	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
		10/29/18	PES	Bladder	38.5	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	<b>0.169</b>	J
		01/03/19	PES	Bladder	31.6	U	–	–	0.0896	U	<b>0.442</b>	J	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
MW-140 (duplicate)	Roy Street ROW	09/22/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.450</b>	J	<b>0.477</b>	J	0.152	U	0.118	U	
		09/22/17	PES	Bladder	–	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.456</b>	J	<b>0.523</b>		0.152	U	0.118	U	
		04/12/18	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.402</b>	J+	<b>0.572</b>	J+	<b>2.47</b>	J+	0.152	U	<b>0.246</b>	J+
MW-153	Roy Street ROW	05/01/18	PES	Bladder	<b>31.6</b>	J	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.756</b>		0.153	U	<b>0.612</b>		0.152	U	<b>9.56</b>	
		01/22/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	<b>1.41</b>		0.152	U	<b>15.9</b>	
MW-158A	8th Ave N ROW	04/30/18	PES	Bladder	<b>101</b>		–	–	0.0896	U	<b>2.66</b>		0.158	U	0.316	U	<b>17.7</b>		<b>18.7</b>		<b>59.6</b>	J	<b>0.205</b>	J	<b>8.91</b>	
		01/24/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.325</b>	J	<b>2.54</b>		0.152	U	<b>7.58</b>	
MW-160	8th Ave N ROW	05/21/18	PES	Bladder	<b>51.0</b>	J	–	–	0.0896	U	0.412	U	0.158	U	<b>0.342</b>	J	<b>0.380</b>	J	<b>0.835</b>		<b>2.96</b>		0.152	U	0.118	U
		01/25/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	<b>0.263</b>	J	<b>5.08</b>		0.152	U	0.118	U
MW-161	8th Ave N ROW	05/21/18	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	<b>0.329</b>	J	<b>2.01</b>		<b>1.79</b>		<b>1.89</b>		0.152	U	0.118	U
		01/25/19	PES	Bladder	31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	<b>0.472</b>	J	<b>1.66</b>		<b>1.26</b>		0.152	U	0.118	U
Number of Samples					37	–	–	93		93		93		93		126		126		126		126		126		
Number of Detections					10	–	–	8		18		0		3		45		53		77		24		67		
Frequency of Detection					27%	–	–	9%		19%		0%		3%		36%		42%		61%		19%		53%		
Maximum					3,100	J+z	–	–	28.3		3.90		–		0.396	J	2,800		1,100		7,280		28.2		290	ve
Minimum					31.6	U	–	–	0.0896	U	0.412	U	0.158	U	0.316	U	0.199	U	0.153	U	0.0933	U	0.152	U	0.118	U
Notes:					<p>1. Petroleum hydrocarbons analyzed by EPA Method 418.1 NWTPH-HCID, or NWTPH-Gx, NWTPH-Dx or 8015-M</p> <p>2. GRO = gasoline-range organics</p> <p>3. DRO = diesel-range organics</p> <p>4. ORO = oil-range organics</p> <p>5. PCE = perchloroethylene (tetrachloroethene)</p> <p>6. TCE = trichloroethene</p> <p>7. cDCE = cis-1,2-dichloroethene</p> <p>8. tDCE = trans-1,2-dichloroethene</p> <p>9. VC = vinyl chloride</p> <p>10. ROW = right-of-way</p> <p>11. (dup) = duplicate</p> <p>12. SES = SoundEarth Strategies, Inc.</p> <p>13. Farallon = Farallon Consulting, LLC</p> <p>14. – = not analyzed or not measured</p> <p>15. U = not detected at a concentration exceeding laboratory reporting limit</p> <p>16. ND = not detected at a concentration exceeding laboratory reporting limit; detection limit not provided</p> <p>17. Detected results shown in bold, detections above the screening levels highlighted in gray</p> <p>18. ve = estimated value due to the reported range exceeding the calibration range of the analysis</p> <p>19. i = the presence of the analyte indicated may be due to carryover from previous sample injections</p> <p>20. z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs</p>																					

Table F-11

**Summary of Reconnaissance Groundwater Analytical Data  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Area Location	Sample Date	Sampled By	Sample Interval (FT BTOC)	Color Tec (µg/L)	Analytical Results (micrograms per liter, µg/L)									
						GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
Screening Level						800	0.5	72	29	10,000	2.4	1	16	100	0.2
<b>On Property</b>															
B101/MW101	Property (duplicate)	7/11/12	SES	75 to 80	-	-	-	-	-	-	32	1 U	2.9	1 U	0.2 U
		7/11/12	SES	75 to 80	-	-	-	-	-	-	150	6.1	25	1 U	1.1
		7/12/12	SES	95 to 100	-	-	-	-	-	-	3.4	1 U	1 U	1 U	0.2 U
		7/12/12	SES	110 to 120	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U
		7/12/12	SES	134 to 139	-	-	-	-	-	-	1 U	1 U	1 U	1 U	0.2 U
B-2	Property	6/23/00	Retec	11.5	-	-	250 U	250 U	250 U	500 U	37,000	600	4,100	250 U	250 U
B-6	Property	6/24/00	Retec	14.5	-	-	50 U	50 U	50 U	100 U	6,800	54	57	50 U	50 U
B-7	Property	6/24/00	Retec	12.5	-	-	50 U	50 U	50 U	100 U	21,000	310	880	50 U	50 U
B-8	Property	6/24/00	Retec	8	-	-	-	-	-	-	3,100	50 U	50 U	-	50 U
B-9	Property	6/24/00	Retec	12	-	-	-	-	-	-	120,000	210	270	-	50 U
B-10	Property	6/24/00	Retec	12.5	-	-	-	-	-	-	9,100	1,100	7,600	-	98
DB01	Property	3/18/13	SES	35 to 40	-	-	-	-	-	-	1.4	1 U	2.4	1 U	0.2 U
DB02	Property	3/18/13	SES	39 to 44	-	-	-	-	-	-	140	19	14.0	1 U	0.35
DB03	Property	3/27/13	SES	55 to 60	-	-	-	-	-	-	6,700	420	420	1 U	12
DB04	Property	3/22/13	SES	55 to 60	-	-	-	-	-	-	15	1 U	1 U	1 U	0.2 U
DB05	Property	3/26/13	SES	65 to 70	-	-	-	-	-	-	1,400	11	1.7	1 U	0.2 U
DB05A	Property	3/28/13	SES	40 to 45	-	-	-	-	-	-	230,000	790 ve	42	1 U	1.2
DB06	Property	3/25/13	SES	75 to 80	-	-	-	-	-	-	170	4.4	5.0	1 U	0.2 U
DB07	Property	3/28/13	SES	65 to 80	-	-	-	-	-	-	15,000	1,000 U	1,000 U	1,000 U	200 U
DB08	Property	3/21/13	SES	65 to 70	-	-	-	-	-	-	7,300	1,100	1,300	10 U	38.0
DB09	Property	3/19/13	SES	35 to 40	-	-	-	-	-	-	5,000	400	700	3.1	4.8
		3/19/13	SES	65 to 70	-	-	-	-	-	-	1,900	460	460	1 U	2.3
DB10	Property	3/29/13	SES	35 to 40	-	-	-	-	-	-	200,000	1,700	1,000 U	1,000 U	200 U
		4/1/13	SES	65 to 70	-	-	-	-	-	-	6,900	100 U	100 U	100 U	20 U
DB12	Property	4/3/13	SES	10 to 15	-	-	-	-	-	-	170,000	4,800	3,100	2,000 U	400 U
		4/3/13	SES	40 to 45	-	-	-	-	-	-	46,000	1,100	1,000 U	1,000 U	200 U
DB13	Property	4/3/13	SES	10 to 15	-	-	-	-	-	-	2,500	100	160	1.8	0.2 U
		4/3/13	SES	40 to 45	-	-	-	-	-	-	8,200	800 ve	430 ve	1 U	3.0
DB14	Property	4/4/13	SES	10 to 15	-	7,200	100	40 U	90	130	-	-	-	-	-
		4/4/13	SES	40 to 45	-	-	-	-	-	-	470	210	840	100 U	140
IW06	Property	1/15/15	SES	70	-	-	-	-	-	-	1,600	33	73	1 U	2.3
W-MW-04	Property, NE quadrant	1/28/12	WW	10 to 20	-	-	0.7	0.2 J	0.2 U	0.3 J	19	8.4	37	0.4	37
		1/28/12	WW	30 to 40	-	-	0.2	0.2 J	0.2 U	0.1 J	2,800	26	47	0.4	12
		1/28/12	WW	50 to 60	-	-	0.4	0.6	0.1 J	0.6 J	12,000	230	270	0.2	3.4
MW-133	Property, SW quadrant	8/15/17	PES	80 to 82	-	2,990 Jz	0.808	774	0.228 J	0.708 J	6,690	797	182	3.00	46.2
		8/15/17	PES	90 to 92	-	2,210 Jz	64.3	711	1.44 J	2.92 J	413	34.4	22.2	0.760 U	1.56 J
		8/16/17	PES	100.5 - 102.5 <sup>a</sup>	390	-	-	-	-	-	-	-	-	-	-

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Sample Location	Area Location	Sample Date	Sampled By	Sample Interval (FT BTOC)	Color Tec (µg/L)	Analytical Results (micrograms per liter, µg/L)										
						GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
<b>Screening Level</b>						<b>800</b>	<b>0.5</b>	<b>72</b>	<b>29</b>	<b>10,000</b>	<b>2.4</b>	<b>1</b>	<b>16</b>	<b>100</b>	<b>0.2</b>	
B-211	Property, SW quadrant	8/18/17	PES	85 - 87 <sup>a</sup>	–	–	–	–	–	–	–	–	–	–	–	
		8/18/17	PES	100 - 102 <sup>b</sup>	900	–	–	–	–	–	–	–	–	–	–	
		8/21/17	PES	120 - 122	–	<b>2,880 z</b>	<b>1.65</b>	<b>297</b>	<b>0.557</b>	<b>1.67</b>	<b>19.8</b>	<b>8.34</b>	<b>4.86</b>	<b>0.168 J</b>	<b>0.160 J</b>	
B-205	Property, NE quadrant	8/30/17	PES	40 - 42	65,000	<b>6,550 z</b>	8.96 U	<b>55.6</b>	15.8 U	31.6 U	<b>10,300</b>	<b>1,130</b>	<b>5,670</b>	<b>30.1 J</b>	<b>1,010</b>	
MW-137	Property, SW quadrant	8/31/17	PES	76 - 78	<3	<b>745</b>	<b>0.658 J</b>	<b>151</b>	0.790 U	1.58 U	0.995 U	0.765 U	<b>4.46</b>	0.760 U	0.590 U	
		8/31/17	PES	76 - 78 (dup)	–	<b>631</b>	0.448 U	<b>105</b>	0.790 U	1.58 U	0.995 U	0.765 U	<b>2.86</b>	0.760 U	0.590 U	
		9/1/17	PES	107 - 109	<3	31.6 U	0.0896 U	<b>41.1</b>	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	
MW-141	Property, SE quadrant	9/19/17	PES	105 - 107	<3	–	<b>0.286 J</b>	<b>88.5</b>	<b>0.158 J</b>	<b>0.472 J</b>	0.199 U	0.153 U	<b>0.148 J</b>	0.152 U	0.118 U	
<b>Off Property</b>																
B102/MW102	Property	7/17/12	SES	25 to 30	–	–	–	–	–	–	–	<b>5.0</b>	<b>2.5</b>	<b>9.0</b>	1 U	<b>0.84</b>
		7/17/12	SES	25 to 30 <sup>(5)</sup>	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		7/17/12	SES	45 to 50	–	–	–	–	–	–	–	1 U	1 U	<b>2.4</b>	1 U	<b>0.20</b>
		7/17/12	SES	45 to 50 <sup>(5)</sup>	–	–	–	–	–	–	–	1 U	1 U	<b>1.2</b>	1 U	0.2 U
		7/19/12	SES	85 to 90	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		7/19/12	SES	85 to 90 <sup>(5)</sup>	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
B103/MW103	Alley Between 8th and 9th Ave	7/25/12	SES	20 to 25	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		7/25/12	SES	20 to 25 <sup>(5)</sup>	–	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U
		7/25/12	SES	35 to 40	–	–	–	–	–	–	–	<b>1,800</b>	<b>860</b>	<b>400</b>	<b>2.4</b>	<b>42</b>
		7/25/12	SES	35 to 40 <sup>(5)</sup>	–	–	–	–	–	–	–	<b>840</b>	<b>350</b>	<b>140</b>	1 U	<b>14</b>
		7/26/12	SES	75 to 80	–	–	–	–	–	–	–	<b>320</b>	<b>62</b>	<b>100</b>	1 U	<b>3.4</b>
		7/26/12	SES	75 to 80 <sup>(5)</sup>	–	–	–	–	–	–	–	<b>170</b>	<b>50</b>	<b>85</b>	1 U	<b>2.3</b>
B104/MW104	8th Ave ROW	7/31/12	SES	55 to 60	–	–	<b>0.77</b>	<b>3.4</b>	1 U	3 U	<b>900</b>	<b>150</b>	<b>480</b>	1 U	<b>17</b>	
		7/31/12	SES	75 to 80	–	–	<b>1.0</b>	<b>2.6</b>	1 U	3 U	<b>220</b>	<b>45</b>	<b>180</b>	1 U	<b>6.1</b>	
		8/1/12	SES	95 to 100	–	–	–	–	–	–	<b>15</b>	<b>5.3</b>	<b>11</b>	1 U	<b>0.24</b>	
B105/MW105	Roy St	8/9/12	SES	75 to 80 <sup>(5)</sup>	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U	
		8/10/12	SES	95 to 100 <sup>(5)</sup>	–	–	–	–	–	–	1 U	1 U	1 U	1 U	0.2 U	
B106/MW106	SDOT property south of Roy Street	8/14/12	SES	30 to 35	–	–	–	–	–	–	<b>8.2</b>	1 U	<b>1.0</b>	1 U	<b>0.36</b>	
		8/14/12	SES	45 to 50	–	–	–	–	–	–	<b>1,100</b>	<b>110</b>	<b>210</b>	1 U	<b>20</b>	
		8/15/12	SES	85 to 90	–	–	–	–	–	–	<b>19</b>	<b>2.3</b>	<b>9.7</b>	1 U	<b>0.62</b>	
B122/MW122	Alley East of 800 Aloha St	12/17/13	SES	25	–	–	<b>29</b>	<b>1.5</b>	<b>2.5</b>	<b>3</b>	1 U	1 U	1 U	1 U	0.2 U	
		12/17/13	SES	40	–	–	<b>13</b>	<b>1.2</b>	<b>1.9</b>	3 U	1 U	1 U	<b>120</b>	1 U	<b>14</b>	
		12/17/13	SES	85	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	<b>0.72</b>	
B124/MW124	Valley St ROW	12/19/13	SES	45	–	<b>170</b>	0.35 U	1 U	<b>7.1</b>	<b>49.7</b>	1 U	1 U	1 U	1 U	0.2 U	
		12/19/13	SES	60	–	–	0.35 U	1 U	<b>20</b>	<b>144</b>	1 U	1 U	1 U	1 U	0.2 U	
		12/19/13	SES	100	–	–	0.35 U	1 U	1 U	3 U	1 U	1 U	1 U	1 U	0.2 U	
B126/MW126	Alley E of 800 Aloha St	12/30/13	SES	40	–	–	<b>3.5</b>	<b>2.4</b>	<b>3.6</b>	3 U	1 U	1 U	1 U	1 U	0.2 U	
CHB-07	Westlake Ave N ROW	4/14/08	CH2M	–	–	250 U	<b>0.7</b>	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	<b>480</b>	<b>1.8</b>	<b>220</b>	
CHB-08	9th Ave N ROW	4/15/08	CH2M	–	–	250 U	0.2 U	0.2 U	0.2 U	0.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
CHB-09	9th Ave N ROW	4/16/08	CH2M	–	–	250 U	<b>0.3</b>	<b>0.3</b>	0.2 U	0.6 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	
RS-20	800 Aloha Street Parcel	3/5/93	EPJ	–	–	<b>99,000</b>	<b>96</b>	<b>230</b>	<b>1,500</b>	<b>7,000</b>	5 U	–	–	–	–	
SCL-B101	800 Aloha Street Parcel	6/17/02	Urban	–	–	50 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	
SCL-B102	800 Aloha Street Parcel	6/17/02	Urban	–	–	<b>150</b>	1 U	1 U	1 U	<b>3</b>	1 U	1 U	1 U	1 U	1.0 U	

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						GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
<b>Screening Level</b>						<b>800</b>	<b>0.5</b>	<b>72</b>	<b>29</b>	<b>10,000</b>	<b>2.4</b>	<b>1</b>	<b>16</b>	<b>100</b>	<b>0.2</b>	
W-MW-02	8th Ave ROW	1/30/12	WW	10 to 20	–	–	0.2 U	0.2 U	0.2 U	0.2 U	<b>1.6</b>	<b>1.4</b>	<b>8.0</b>	<b>0.3</b>	<b>0.3</b>	
		1/30/12	WW	30 to 40	–	–	20 U	20 U	20 U	60 U	<b>24,000</b>	<b>940</b>	<b>1,700</b>	<b>13 J</b>	<b>70</b>	
		1/30/12	WW	50 to 60	–	–	20 U	20 U	20 U	60 U	<b>7,200</b>	<b>1,300</b>	<b>1,800</b>	20 U	<b>85</b>	
B-213	Dexter Avenue North	9/6/17	PES	90 - 92	<3	<b>712</b>	<b>3.22</b>	<b>436</b>	0.158 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	<b>0.424</b>	
MW-138	Dexter Avenue North	9/14/17	PES	115 - 117	<3	–	<b>0.275 J</b>	<b>10.4</b>	1.58 U	0.316 U	0.199 U	0.153 U	0.0933 U	0.152 U	0.118 U	

Notes:

<p>1. Petroleum hydrocarbons analyzed by EPA Method 418.1 or 8015-M, NWTPH-HCID, or NWTPH-Gx, NWTPH-Dx</p> <p>4. GRO = gasoline-range organics</p> <p>5. DRO = diesel-range organics</p> <p>6. ORO = oil-range organics</p> <p>7. PCE = perchloroethylene (tetrachloroethene)</p> <p>8. TCE = trichloroethene</p> <p>9. cDCE = cis-1,2-dichloroethene</p> <p>10. tDCE = trans-1,2-dichloroethene</p> <p>11. VC = vinyl chloride</p> <p>12. ROW = right-of-way</p> <p>13. (dup) = duplicate</p>	<p>14. SES = SoundEarth Strategies, Inc.</p> <p>15. B&amp;V = Black &amp; Veatch</p> <p>16. Farallon = Farallon Consulting, LLC</p> <p>17. Retec = Remediation Technologies, Inc.</p> <p>18. CH2M = CH2M HILL</p> <p>19. EPJ = E.P. Johnson Construction Inc., and Environmental</p> <p>20. Urban = Urban Redevelopment</p> <p>21. HC = Hart Crowser, Inc.</p> <p>22. – = not analyzed or not measured</p> <p>23. U = not detected at a concentration exceeding laboratory reporting limit</p> <p>24. ND = not detected at a concentration exceeding laboratory reporting limit; detection limit not provided</p>	<p>25. Detected results shown in bold, detections above the screening levels highlighted in gray</p> <p>26. i = The presence of the analyte indicated may be due to carryover from previous sample injections.</p> <p>27. ve = Estimated value. The reported range exceeds the calibration range of the analysis.</p> <p>28. J = Estimated concentration.</p> <p>29. <sup>a</sup> = Sample extremely turbid; held at lab</p> <p>30. <sup>b</sup> = Insufficient groundwater volume for laboratory analysis; ColorTec test run instead</p> <p>31. z = No/low level gasoline/petroleum detection; result is likely elevated due to high detections of CVOCs</p>
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Table F-12

**Groundwater Analytical Results for Polycyclic Aromatic Hydrocarbons  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Sample Date	Sampled By	Laboratory	Analytical Results (micrograms per liter)																		
				Acenaphthene	Acenaphthylene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo(g,h,i)perylene	Pentachlorophenol	Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Indeno(1,2,3-)pyrene	Dibenz(a,h)anthracene	Total TEC		
<b>800 Aloha Street Parcel</b>																						
MW-7	06/20/02	Urban	F&BI	<b>1.4</b>	<b>0.1</b>	<b>1.5</b>	<b>2.8</b>	<b>0.5</b>	<b>0.4</b>	<b>0.6</b>	<b>0.5</b>	0.3 U	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
MW-9	06/20/02	Urban	F&BI	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.3 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
MW-10	06/20/02	Urban	F&BI	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.3 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
<b>TEF</b>				-	-	-	-	-	-	-	-	-	0.1	0.01	1	0.1	0.1	0.1	0.1	0.1	-	
<b>MTCA Cleanup Level</b>				<b>960(3) U</b>	<b>NE</b>	<b>640(3)</b>	<b>NE</b>	<b>4,800(3)</b>	<b>640(3)</b>	<b>480(3)</b>	<b>NE</b>	<b>0.22(4)</b>	<b>0.12(4)</b>	<b>12(4)</b>	<b>0.1(5)</b>	<b>0.12(4)</b>	<b>1.2(4)</b>	<b>0.12(4)</b>	<b>0.012(4)</b>	<b>0.1(5)(6)</b>		
<p><u>Notes:</u> PAHs analyzed by U.S. Environmental Protection Agency Method 8270D The concentration of each of the seven cPAHs listed in table 708-2 (under WAC 173-340-900) is multiplied by its corresponding TEF (total equivalency factor). The sum of these seven factors equal the total TEC (toxicity equivalent concentration). When the analytical result for any individual cPAH is reported as less than the LRL, half of the LRL is used as the concentrations for the calculation. When analytical results for all seven cPAHs are less than the LRL, LRL for benzo(a)pyrene is reported as the TEC. The resultant total TEC concentration is then compared to the cleanup level for benzo(a)pyrene.</p> <p>(3) CLARC, Groundwater, Method B, Non Cancer, CLARC website - &lt;<a href="https://fortress.wa.gov/ecy/clarc/CLARHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARHome.aspx</a>&gt;. Revised May 2014.</p> <p>(4) CLARC, Groundwater, Method B, Cancer, CLARC website - &lt;<a href="https://fortress.wa.gov/ecy/clarc/CLARHome.aspx">https://fortress.wa.gov/ecy/clarc/CLARHome.aspx</a>&gt;. Revised May 2014.</p> <p>(5) MTCA Method A Cleanup Levels, Table 720-1, Section 900, Chapter 173-340 of WAC, revised November 2007.</p> <p>(6) The cleanup level for cPAHs is based on direct contact using Equation 740-2 under WAC 173-340-740. When establishing and determining compliance with cleanup levels for mixtures of cPAHs, the mixture of cPAHs is considered a single hazardous substance. Benzo(a)pyrene's cleanup level is used as the cleanup level for the mixture.</p>				<p><u>Abbreviations:</u> Urban = Urban Redevelopment LLC F&amp;BI = Friedman &amp; Bruya, Inc. of Seattle, Washington NE = not established CLARC = cleanup levels and risk calculations MTCA = Washington State Model Toxics Control Act WAC = Washington Administrative Code cPAH = carcinogenic polycyclic aromatic hydrocarbon</p>				<p><u>Laboratory and Results Notes:</u> Detected results shown in bold, detections exceeding MTCA Cleanup Level highlighted in gray U = not detected at a concentration exceeding the laboratory reporting limit - = not analyzed or not measured</p>														

Table C-13

**Process Water Analytical Results  
Former American Linen Supply  
700 Dexter Avenue North Seattle, Washington**

Sample Location	Sample ID	Sample Date	Analytical Results (micrograms per liter)												
			pH	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	1,1-DCE	DCM	
Sump 4	SUMP4 A 20110629	6/29/11	-	35 U	100 U	100 U	300 U	<b>20000</b>	<b>450</b>	<b>47000</b>	100 U	20 U	100 U	500 U	
Effluent 1	Effluent1 20120104	1/4/12	<b>5.76</b>	-	-	-	-	<b>260</b>	<b>49</b>	<b>32</b>	1 U	<b>0.37</b>	1 U	5 U	
Poly Tank	Polytank1 20120823	8/23/13	-	-	-	-	-	<b>270</b>	1 U	1 U	1 U	0.2 Upr	1 U	5 U	
	Tank-20130201	2/1/13	-	-	-	-	-	<b>240</b>	1 U	1 U	1 U	0.2 U	1 U	5 U	
	Tank-20130205	2/5/13	-	-	-	-	-	<b>5.3</b>	1 U	1 U	1 U	0.2 U	1 U	5 U	
<b>King County Discharge Criteria</b>			<b>5.5&lt;pH&gt;12(3)</b>	<b>70(4)</b>	<b>1,400(4)</b>	<b>1,700(4)</b>	<b>2,200(4)</b>	<b>240(4)</b>	<b>500(4)</b>	<b>2,000(4)</b>	<b>2,000(4)</b>	<b>12(4)</b>	<b>3(4)</b>	<b>4,100(4)</b>	
<p>Notes:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p>1. Chemical analyses conducted by Freidman &amp; Bruya Inc., of Seattle, Washington.</p> <p>2. VOCs Analyzed by U.S. Environmental Protection Agency Method 8260C.</p> <p>3. pH analyzed be EPA Method 9040C.</p> <p>4. PCE = perchloroethylene (tetrachloroethene)</p> <p>5. TCE = trichloroethylene</p> <p>6. cDCE = cis-1,2-dichloroethene</p> <p>7. tDCE = trans-1,2-dichloroethene</p> <p>8. VC = vinyl chloride</p> <p>9. 1,1-DCE = 1,1-Dichloroethene</p> </div> <div style="width: 48%;"> <p>10. DCM = dichlormethane (or methylene chloride)</p> <p>11. Detected results shown in bold, detections exceeding King County's Discharge Criteria highlighted in gray</p> <p>12. - = not analyzed or not measured</p> <p>13. U = not detected at a concentration exceeding the laboratory reporting limit</p> <p>14. pr = The sample was received with incorrect preservation. The value reported should be considered an estimate.</p> <p>15. (3)King County Industrial Waste Local Discharge Permits, Daily Minimum and Maximum Limits for Corrosive Substances, Section 6.1.5 of PUT-13-1 (PR), Effective September 15, 2008.</p> <p>16. (4)King County Industrial Waste Discharge Screening Levels for Volatile Organic Compounds, September 22, 2009.</p> </div> </div>															

**Table C-14**

**Soil Vapor Analytical Results  
Former American Linen Supply  
700 Dexter Avenue North Seattle, Washington**

Sample Location	Sample Name	Sample Date	Analytical Results (micrograms per cubic meter)									
			PCE		TCE		cDCE		tDCE		VC	
<b>MTCA Method B Soil Gas Screening Level</b>			<b>321</b>		<b>12</b>		–		–		<b>9.3</b>	
SV01	SV01-20130311	03/05/13	<b>1.5</b>		0.16	U	<b>0.31</b>		0.58	U	<b>0.71</b>	
	SV01-092518	09/25/18	2.72	UJ	2.14	U	1.59	U	1.59	U	1.02	U
	SV01-092518-D	09/25/18	<b>137</b>	<b>J</b>	2.14	U	1.59	U	1.59	U	1.02	U
	SV01-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
SV02	SV02-20130311	03/05/13	<b>2.3</b>		0.17	U	0.12	U	0.61	U	0.04	U
	SV02-092518	09/25/18	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV02-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
SV03	SV03-20130311	03/05/13	<b>4.6</b>		<b>0.39</b>		0.12	U	0.58	U	0.037	U
	SV03-092518	09/25/18	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U
	SV03-020619	02/06/19	2.72	U	2.14	U	1.59	U	1.59	U	1.02	U

Notes:

1. Laboratory analyses conducted by Air Toxics Ltd. of Folsom, CA (2013 samples) and Pace Analytical of Mount Juliet, TN (2018 samples)	7. VC = vinyl chloride
2. VOCs analyzed by U.S. Environmental Protection Agency Method Modified TO-15 Low Level Analysis.	8. Detected results shown in bold, detections exceeding MTCA Method B sub-slab screening levels highlighted in gray
3. PCE = perchloroethylene (tetrachloroethene)	9. U = not detected at a concentration exceeding laboratory reporting limit
4. TCE = trichloroethene	12. MTCA = Washington State Model Toxics Control Act
5. cDCE = cis-1,2-dichloroethene	13. CLARC = cleanup levels and risk calculations
6. tDCE = trans-1,2-dichloroethene	14. – = screening level not established

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	B-205 (63 feet bgs)		B-206 (47 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.0224	0.01355												
	3/8"	0.9500	0.0000	0.00000	0.0221	0.02082												
	1/4"	0.6351	0.0034	0.00455	0.0108	0.01445												
	4,757 (No. 4)	0.4757	0.0092	0.01720	0.0118	0.02206												
Coarse Sand	3,364 (No. 6)	0.3364	0.0053	0.01368	0.0151	0.03898												
	2,000 (No. 10)	0.2000	0.0078	0.03156	0.0176	0.07121												
Medium Sand	1414 (No. 14)	0.1414	0.0038	0.02332	0.0129	0.07915												
	1000 (No. 18)	0.1000	0.0059	0.05118	0.0187	0.16220												
	707 (No. 25)	0.0707	0.0135	0.16555	0.0339	0.41571												
	500 (No. 35)	0.0500	0.0351	0.60849	0.0469	0.81306												
	420 (No. 40)	0.0420	0.0200	0.44240	0.0246	0.54415												
Fine Sand	354 (No. 45)	0.0354	0.0364	0.95643	0.0525	1.37946												
	250 (No. 60)	0.0250	0.1109	3.84025	0.0998	3.45588												
	177 (No. 80)	0.0177	0.1207	5.90739	0.0657	3.21554												
	125 (No. 120)	0.0125	0.1108	7.66826	0.0942	6.51941												
	74 (No. 200)	0.0074	0.1328	14.44952	0.1007	10.95683												
Silt and Clay	53 (No. 270)	0.0053	0.1280	20.99405	0.1222	20.04276												
	37 (No. 400)	0.0037	0.0965	22.43055	0.0844	19.61801												
	25	0.0025	0.0533	18.09968	0.0479	16.25578												
	15.6	0.00156	0.0533	28.07513	0.0479	25.21498												
	5	0.0005	0.0533	66.84813	0.0479	60.03797												
Sum			1.00	190.627	1.00	168.892												
Estimated Maximum k (cm/sec)				2.62E-03		3.33E-03												
Estimated Median k (cm/sec)				1.12E-03		1.43E-03												
Estimated Minimum k (cm/sec)				3.71E-04		4.73E-04												
% Gravel			1.3		6.7													
% Sand			60.3		58.3													
% Silt and Clay			38.5		35.0													
<p>Notes:</p> <p>1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\Sigma [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirica                      Kozeny-Carmon coefficient (1/cm-sec  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table style="margin-left: 400px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> <p>4. Estimated porosities:</p> <table style="margin-left: 400px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	B-207 (50 feet bgs)		B-208 (56 - 57 feet bgs)													
			Frac Retained	$f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.1085	0.06561	0.0000	0.00000												
	3/8"	0.9500	0.0089	0.00838	0.0253	0.02383												
	1/4"	0.6351	0.0107	0.01431	0.0173	0.02314												
	4,757 (No. 4)	0.4757	0.0053	0.00991	0.0056	0.01047												
Coarse Sand	3,364 (No. 6)	0.3364	0.0101	0.02607	0.0092	0.02375												
	2,000 (No. 10)	0.2000	0.0126	0.05098	0.0149	0.06029												
Medium Sand	1414 (No. 14)	0.1414	0.0082	0.05031	0.0103	0.06320												
	1000 (No. 18)	0.1000	0.0099	0.08587	0.0161	0.13965												
	707 (No. 25)	0.0707	0.0178	0.21828	0.0290	0.35563												
	500 (No. 35)	0.0500	0.0315	0.54608	0.0564	0.97775												
	420 (No. 40)	0.0420	0.0378	0.83613	0.0491	1.08609												
Fine Sand	354 (No. 45)	0.0354	0.0311	0.81717	0.0439	1.15349												
	250 (No. 60)	0.0250	0.1098	3.80216	0.1267	4.38738												
	177 (No. 80)	0.0177	0.0971	4.75234	0.0691	3.38194												
	125 (No. 120)	0.0125	0.1020	7.05923	0.1096	7.58522												
	74 (No. 200)	0.0074	0.0797	8.67189	0.0883	9.60763												
Silt and Clay	53 (No. 270)	0.0053	0.0997	16.35240	0.0992	16.27039												
	37 (No. 400)	0.0037	0.0799	18.57203	0.0894	20.78022												
	25	0.0025	0.0464	15.74672	0.0470	15.93903												
	15.6	0.00156	0.0464	24.42537	0.0470	24.72366												
	5	0.0005	0.0464	58.15787	0.0470	58.86813												
Sum			1.00	160.269	1.00	165.461												
Estimated Maximum k (cm/sec)				3.70E-03		3.47E-03												
Estimated Median k (cm/sec)				1.59E-03		1.49E-03												
Estimated Minimum k (cm/sec)				5.25E-04		4.93E-04												
% Gravel			13.3		4.8													
% Sand			54.8		62.3													
% Silt and Clay			31.9		33.0													
<p>Notes:</p> <p>1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3 / (1 - \Theta)^2] * (1.99 \times 10^4) / \{ (\sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2 \}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirica                      Kozeny-Carmon coefficient (1/cm-sec)  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table style="margin-left: 40px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> <p>4. Estimated porosities:</p> <table style="margin-left: 40px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	B-209 (57 feet bgs)		B-210 (59 - 60 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.0378	0.02286												
	3/8"	0.9500	0.0216	0.02035	0.0172	0.01620												
	1/4"	0.6351	0.0132	0.01766	0.0108	0.01445												
	4,757 (No. 4)	0.4757	0.0057	0.01065	0.0036	0.00673												
Coarse Sand	3,364 (No. 6)	0.3364	0.0056	0.01446	0.0016	0.00413												
	2,000 (No. 10)	0.2000	0.0154	0.06231	0.0047	0.01902												
Medium Sand	1414 (No. 14)	0.1414	0.0112	0.06872	0.0024	0.01473												
	1000 (No. 18)	0.1000	0.0155	0.13445	0.0050	0.04337												
	707 (No. 25)	0.0707	0.0265	0.32497	0.0090	0.11037												
	500 (No. 35)	0.0500	0.0392	0.67957	0.0246	0.42646												
	420 (No. 40)	0.0420	0.0436	0.96443	0.0293	0.64811												
Fine Sand	354 (No. 45)	0.0354	0.0358	0.94066	0.0248	0.65163												
	250 (No. 60)	0.0250	0.1037	3.59093	0.1053	3.64634												
	177 (No. 80)	0.0177	0.0893	4.37059	0.0801	3.92031												
	125 (No. 120)	0.0125	0.0910	6.29794	0.1150	7.95894												
	74 (No. 200)	0.0074	0.0807	8.78070	0.0864	9.40090												
Silt and Clay	53 (No. 270)	0.0053	0.1255	20.58401	0.1236	20.27238												
	37 (No. 400)	0.0037	0.0944	21.94242	0.0991	23.03489												
	25	0.0025	0.0607	20.58839	0.0732	24.84181												
	15.6	0.00156	0.0607	31.93546	0.0732	38.53312												
	5	0.0005	0.0607	76.03974	0.0732	91.74905												
Sum			1.00	197.368	1.00	225.336												
Estimated Maximum k (cm/sec)				2.44E-03		1.87E-03												
Estimated Median k (cm/sec)				1.05E-03		8.03E-04												
Estimated Minimum k (cm/sec)				3.46E-04		2.66E-04												
% Gravel			4.1		6.9													
% Sand			55.8		48.8													
% Silt and Clay			40.2		44.2													
<p>Notes:</p> <p>1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\Sigma [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirica                      Kozeny-Carmon coefficient (1/cm-sec  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table border="0"> <tr> <td>Rounded</td> <td>6.1</td> </tr> <tr> <td>Median</td> <td>6.25</td> </tr> <tr> <td>Worn</td> <td>6.4</td> </tr> </table> <p>4. Estimated porosities:</p> <table border="0"> <tr> <td>Maximum</td> <td>0.40</td> </tr> <tr> <td>Median</td> <td>0.33</td> </tr> <tr> <td>Minimum</td> <td>0.25</td> </tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	



**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	B-211 (83 feet bgs)		B-213 (99 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0161	0.00974	0.0193	0.01167												
	3/8"	0.9500	0.0100	0.00942	0.0000	0.00000												
	1/4"	0.6351	0.0067	0.00896	0.0000	0.00000												
	4,757 (No. 4)	0.4757	0.0209	0.03906	0.0117	0.02187												
Coarse Sand	3,364 (No. 6)	0.3364	0.0110	0.02840	0.0067	0.01730												
	2,000 (No. 10)	0.2000	0.0166	0.06717	0.0140	0.05665												
Medium Sand	1414 (No. 14)	0.1414	0.0290	0.17794	0.0135	0.08283												
	1000 (No. 18)	0.1000	0.0855	0.74163	0.0335	0.29058												
	707 (No. 25)	0.0707	0.2184	2.67823	0.0921	1.12942												
	500 (No. 35)	0.0500	0.2392	4.14676	0.1702	2.95058												
	420 (No. 40)	0.0420	0.0654	1.44664	0.1217	2.69199												
Fine Sand	354 (No. 45)	0.0354	0.1055	2.77206	0.0884	2.32275												
	250 (No. 60)	0.0250	0.0733	2.53824	0.1524	5.27732												
	177 (No. 80)	0.0177	0.0133	0.65094	0.0185	0.90544												
	125 (No. 120)	0.0125	0.0350	2.42229	0.0842	5.82733												
	74 (No. 200)	0.0074	0.0109	1.18599	0.0233	2.53520												
Silt and Clay	53 (No. 270)	0.0053	0.0198	3.24752	0.0448	7.34792												
	37 (No. 400)	0.0037	0.0069	1.60384	0.0251	5.83427												
	25	0.0025	0.0055	1.85522	0.0269	9.12903												
	15.6	0.00156	0.0055	2.87770	0.0269	14.16040												
	5	0.0005	0.0055	6.85193	0.0269	33.71652												
Sum			1.00	35.360	1.00	94.309												
Estimated Maximum k (cm/sec)				7.60E-02		1.07E-02												
Estimated Median k (cm/sec)				3.26E-02		4.59E-03												
Estimated Minimum k (cm/sec)				1.08E-02		1.52E-03												
% Gravel			5.4		3.1													
% Sand			90.3		81.9													
% Silt and Clay			4.3		15.1													
<p>Notes:</p> <p>1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\Sigma [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirica                      Kozeny-Carmon coefficient (1/cm-sec  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table border="0"> <tr> <td>Rounded</td> <td>6.1</td> </tr> <tr> <td>Median</td> <td>6.25</td> </tr> <tr> <td>Worn</td> <td>6.4</td> </tr> </table> <p>4. Estimated porosities:</p> <table border="0"> <tr> <td>Maximum</td> <td>0.40</td> </tr> <tr> <td>Median</td> <td>0.33</td> </tr> <tr> <td>Minimum</td> <td>0.25</td> </tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
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Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	B-216 (77 feet bgs)		B-217 (97 - 99 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.2494	0.15081												
	3/8"	0.9500	0.0066	0.00622	0.0000	0.00000												
	1/4"	0.6351	0.0131	0.01752	0.0517	0.06915												
	4,757 (No. 4)	0.4757	0.0091	0.01701	0.0195	0.03645												
Coarse Sand	3,364 (No. 6)	0.3364	0.0025	0.00645	0.0124	0.03201												
	2,000 (No. 10)	0.2000	0.0109	0.04410	0.0253	0.10237												
Medium Sand	1414 (No. 14)	0.1414	0.0099	0.06074	0.0245	0.15033												
	1000 (No. 18)	0.1000	0.0139	0.12057	0.0441	0.38252												
	707 (No. 25)	0.0707	0.0251	0.30780	0.0742	0.90991												
	500 (No. 35)	0.0500	0.0375	0.65010	0.1594	2.76335												
	420 (No. 40)	0.0420	0.0350	0.77420	0.0823	1.82047												
Fine Sand	354 (No. 45)	0.0354	0.0309	0.81191	0.0436	1.14561												
	250 (No. 60)	0.0250	0.1635	5.66169	0.0681	2.35817												
	177 (No. 80)	0.0177	0.1164	5.69693	0.0153	0.74882												
	125 (No. 120)	0.0125	0.1125	7.78592	0.0394	2.72680												
	74 (No. 200)	0.0074	0.0922	10.03197	0.0216	2.35022												
Silt and Clay	53 (No. 270)	0.0053	0.0948	15.54872	0.0212	3.47714												
	37 (No. 400)	0.0037	0.0976	22.68623	0.0141	3.27742												
	25	0.0025	0.0429	14.54762	0.0113	3.82356												
	15.6	0.00156	0.0429	22.56539	0.0113	5.93087												
	5	0.0005	0.0429	53.72918	0.0113	14.12167												
Sum			1.00	161.070	1.00	46.378												
Estimated Maximum k (cm/sec)				3.66E-03		4.42E-02												
Estimated Median k (cm/sec)				1.57E-03		1.90E-02												
Estimated Minimum k (cm/sec)				5.20E-04		6.27E-03												
% Gravel			2.9		32.1													
% Sand			65.0		61.0													
% Silt and Clay			32.1		6.9													
Notes: 1. Kozeny-Carman Equation: $k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\Sigma [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}$ where $\Theta$ = total porosity $1.99 \times 10^4$ = constant incorporating unit weight and viscosity of water and the empirica Kozeny-Carmon coefficient (1/cm-sec $f_i$ = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless) $d_{li}$ = diameter of larger sieve in pair (cm) $d_{si}$ = diameter of smaller sieve in pair (cm) SF = grain shape factor (dimensionless) 2. Frac retained = fraction (by weight) retained on screen 3. Estimated shape factors: <table style="float: right; margin-left: 20px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> 4. Estimated porosities: <table style="float: right; margin-left: 20px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	B-219 (73 feet bgs)		MW-132 (53 feet bgs)													
			Frac Retained	$f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.0298	0.01802												
	3/8"	0.9500	0.0214	0.02016	0.0000	0.00000												
	1/4"	0.6351	0.0085	0.01137	0.0037	0.00495												
	4,757 (No. 4)	0.4757	0.0115	0.02149	0.0103	0.01925												
Coarse Sand	3,364 (No. 6)	0.3364	0.0142	0.03666	0.0116	0.02995												
	2,000 (No. 10)	0.2000	0.0254	0.10277	0.0309	0.12502												
Medium Sand	1414 (No. 14)	0.1414	0.0156	0.09572	0.0186	0.11412												
	1000 (No. 18)	0.1000	0.0268	0.23246	0.0390	0.33829												
	707 (No. 25)	0.0707	0.0539	0.66097	0.0657	0.80568												
	500 (No. 35)	0.0500	0.0756	1.31060	0.0863	1.49609												
Fine Sand	420 (No. 40)	0.0420	0.0836	1.84922	0.0352	0.77862												
	354 (No. 45)	0.0354	0.0559	1.46880	0.0693	1.82089												
	250 (No. 60)	0.0250	0.1211	4.19346	0.1047	3.62556												
Silt and Clay	177 (No. 80)	0.0177	0.0550	2.69185	0.0485	2.37372												
	125 (No. 120)	0.0125	0.1186	8.20809	0.0986	6.82393												
	74 (No. 200)	0.0074	0.0799	8.69365	0.0897	9.75996												
	53 (No. 270)	0.0053	0.0721	11.82555	0.0726	11.90756												
	37 (No. 400)	0.0037	0.0609	14.15565	0.0519	12.06368												
	25	0.0025	0.0333	11.28968	0.0445	15.11323												
	15.6	0.00156	0.0333	17.51186	0.0445	23.44274												
	5	0.0005	0.0333	41.69652	0.0445	55.81819												
	Sum		1.00	126.077	1.00	146.479												
Estimated Maximum k (cm/sec)			5.98E-03		4.43E-03													
Estimated Median k (cm/sec)			2.57E-03		1.90E-03													
Estimated Minimum k (cm/sec)			8.49E-04		6.29E-04													
% Gravel			4.1		4.4													
% Sand			72.6		69.8													
% Silt and Clay			23.3		25.8													
Notes: 1. Kozeny-Carman Equation: $k = [\Theta^3 / (1 - \Theta)^2] * (1.99 \times 10^4) / \{ (\sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2 \}$ where $\Theta$ = total porosity $1.99 \times 10^4$ = constant incorporating unit weight and viscosity of water and the empirica Kozeny-Carmon coefficient (1/cm-sec $f_i$ = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless) $d_{li}$ = diameter of larger sieve in pair (cm) $d_{si}$ = diameter of smaller sieve in pair (cm) SF = grain shape factor (dimensionless) 2. Frac retained = fraction (by weight) retained on screen 3. Estimated shape factors: <table style="margin-left: 200px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> 4. Estimated porosities: <table style="margin-left: 200px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-133 (106 feet bgs)		MW-135 (50 feet bgs)		
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	
Coarse Gravel	1"	2.5002	0.0906	-	0.0000	-	
Fine Gravel	1/2"	1.2501	0.2316	0.14005	0.0000	0.00000	
	3/8"	0.9500	0.0568	0.05351	0.0192	0.01809	
	1/4"	0.6351	0.0844	0.11289	0.0223	0.02983	
	4,757 (No. 4)	0.4757	0.0595	0.11121	0.0182	0.03402	
Coarse Sand	3,364 (No. 6)	0.3364	0.0660	0.17038	0.0198	0.05111	
	2,000 (No. 10)	0.2000	0.0800	0.32369	0.0462	0.18693	
Medium Sand	1414 (No. 14)	0.1414	0.0393	0.24113	0.0361	0.22150	
	1000 (No. 18)	0.1000	0.0326	0.28277	0.0574	0.49789	
	707 (No. 25)	0.0707	0.0310	0.38015	0.0768	0.94180	
	500 (No. 35)	0.0500	0.0252	0.43687	0.0898	1.55677	
	420 (No. 40)	0.0420	0.0076	0.16811	0.0632	1.39798	
Fine Sand	354 (No. 45)	0.0354	0.0206	0.54127	0.0520	1.36632	
	250 (No. 60)	0.0250	0.0371	1.28470	0.1007	3.48705	
	177 (No. 80)	0.0177	0.0108	0.52858	0.0478	2.33946	
	125 (No. 120)	0.0125	0.0364	2.51918	0.0871	6.02803	
	74 (No. 200)	0.0074	0.0247	2.68752	0.0734	7.98641	
Silt and Clay	53 (No. 270)	0.0053	0.0176	2.88668	0.0587	9.62774	
	37 (No. 400)	0.0037	0.0128	2.97524	0.0390	9.06519	
	25	0.0025	0.0118	4.01587	0.0307	10.42994	
	15.6	0.00156	0.0118	6.22917	0.0307	16.17830	
	5	0.0005	0.0118	14.83193	0.0307	38.52123	
Sum			1.00	40.921	1.00	109.966	
Estimated Maximum k (cm/sec)				5.68E-02		7.86E-03	
Estimated Median k (cm/sec)				2.44E-02		3.37E-03	
Estimated Minimum k (cm/sec)				8.06E-03		1.12E-03	
% Gravel			52.3		6.0		
% Sand			41.1		75.0		
% Silt and Clay			6.6		19.0		
Notes:							
1. Kozeny-Carman Equation:							
$k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\Sigma [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}$							
where $\Theta$ = total porosity							
$1.99 \times 10^4$ = constant incorporating unit weight and viscosity of water and the empirica							
Kozeny-Carmon coefficient (1/cm-sec							
$f_i$ = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)							
$d_{li}$ = diameter of larger sieve in pair (cm)							
$d_{si}$ = diameter of smaller sieve in pair (cm)							
SF = grain shape factor (dimensionless)							
2. Frac retained = fraction (by weight) retained on screen							
3. Estimated shape factors:							
						Rounded	6.1
						Median	6.25
						Worn	6.4
4. Estimated porosities:							
						Maximum	0.40
						Median	0.33
						Minimum	0.25

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-137 (115 feet bgs)		MW-138 (65 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0554	0.03350	0.0467	0.02824												
	3/8"	0.9500	0.0090	0.00848	0.0113	0.01065												
	1/4"	0.6351	0.0337	0.04508	0.0178	0.02381												
	4,757 (No. 4)	0.4757	0.0137	0.02561	0.0204	0.03813												
Coarse Sand	3,364 (No. 6)	0.3364	0.0107	0.02762	0.0243	0.06273												
	2,000 (No. 10)	0.2000	0.0215	0.08699	0.0307	0.12422												
Medium Sand	1414 (No. 14)	0.1414	0.0187	0.11474	0.0247	0.15155												
	1000 (No. 18)	0.1000	0.0258	0.22379	0.0291	0.25241												
	707 (No. 25)	0.0707	0.0536	0.65729	0.0444	0.54448												
	500 (No. 35)	0.0500	0.1169	2.02657	0.0696	1.20658												
	420 (No. 40)	0.0420	0.1216	2.68978	0.0466	1.03079												
Fine Sand	354 (No. 45)	0.0354	0.1293	3.39742	0.0541	1.42150												
	250 (No. 60)	0.0250	0.2037	7.05374	0.1479	5.12149												
	177 (No. 80)	0.0177	0.0291	1.42423	0.1077	5.27113												
	125 (No. 120)	0.0125	0.0509	3.52270	0.0931	6.44328												
	74 (No. 200)	0.0074	0.0338	3.67767	0.0629	6.84394												
Silt and Clay	53 (No. 270)	0.0053	0.0245	4.01839	0.0696	11.41551												
	37 (No. 400)	0.0037	0.0140	3.25417	0.0448	10.41335												
	25	0.0025	0.0114	3.86881	0.0181	6.14258												
	15.6	0.00156	0.0114	6.00106	0.0181	9.52800												
	5	0.0005	0.0114	14.28879	0.0181	22.68658												
Sum			1.00	56.446	1.00	88.761												
Estimated Maximum k (cm/sec)				2.98E-02		1.21E-02												
Estimated Median k (cm/sec)				1.28E-02		5.18E-03												
Estimated Minimum k (cm/sec)				4.24E-03		1.71E-03												
% Gravel			11.2		9.6													
% Sand			81.6		73.5													
% Silt and Clay			7.3		16.9													
Notes: 1. Kozeny-Carman Equation: $k = [\Theta^3 / (1 - \Theta)^2] * (1.99 \times 10^4) / \{ (\sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2 \}$ where $\Theta$ = total porosity $1.99 \times 10^4$ = constant incorporating unit weight and viscosity of water and the empirica Kozeny-Carmon coefficient (1/cm-sec $f_i$ = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless) $d_{li}$ = diameter of larger sieve in pair (cm) $d_{si}$ = diameter of smaller sieve in pair (cm) SF = grain shape factor (dimensionless) 2. Frac retained = fraction (by weight) retained on screen 3. Estimated shape factors: <table style="margin-left: 200px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> 4. Estimated porosities: <table style="margin-left: 200px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-138 (115 feet bgs)		MW-139 (80 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.1147	0.06936	0.0000	0.00000												
	3/8"	0.9500	0.0404	0.03806	0.0000	0.00000												
	1/4"	0.6351	0.0177	0.02367	0.0000	0.00000												
	4,757 (No. 4)	0.4757	0.0245	0.04579	0.0032	0.00598												
Coarse Sand	3,364 (No. 6)	0.3364	0.0161	0.04156	0.0019	0.00490												
	2,000 (No. 10)	0.2000	0.0256	0.10358	0.0040	0.01618												
Medium Sand	1414 (No. 14)	0.1414	0.0238	0.14603	0.0031	0.01902												
	1000 (No. 18)	0.1000	0.0429	0.37211	0.0085	0.07373												
	707 (No. 25)	0.0707	0.0787	0.96510	0.0403	0.49420												
	500 (No. 35)	0.0500	0.1212	2.10112	0.1556	2.69747												
Fine Sand	420 (No. 40)	0.0420	0.0895	1.97973	0.1689	3.73605												
	354 (No. 45)	0.0354	0.0909	2.38844	0.1299	3.41318												
	250 (No. 60)	0.0250	0.1487	5.14920	0.1631	5.64784												
Silt and Clay	177 (No. 80)	0.0177	0.0264	1.29209	0.0491	2.40309												
	125 (No. 120)	0.0125	0.0356	2.46381	0.0594	4.11097												
	74 (No. 200)	0.0074	0.0314	3.41653	0.0434	4.72221												
	53 (No. 270)	0.0053	0.0264	4.33002	0.0484	7.93837												
	37 (No. 400)	0.0037	0.0118	2.74280	0.0377	8.76302												
	25	0.0025	0.0113	3.83487	0.0279	9.45708												
	15.6	0.00156	0.0113	5.94842	0.0279	14.66926												
	5	0.0005	0.0113	14.16345	0.0279	34.92815												
Sum			1.00	51.616	1.00	103.101												
Estimated Maximum k (cm/sec)				3.57E-02		8.94E-03												
Estimated Median k (cm/sec)				1.53E-02		3.84E-03												
Estimated Minimum k (cm/sec)				5.07E-03		1.27E-03												
% Gravel			19.7		0.3													
% Sand			73.1		82.7													
% Silt and Clay			7.2		17.0													
<p>Notes:</p> <p>1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\Sigma [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirica                      Kozeny-Carmon coefficient (1/cm-sec)  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table style="margin-left: 40px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> <p>4. Estimated porosities:</p> <table style="margin-left: 40px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
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Median	0.33																	
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**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-140 (80 - 80.5 feet bgs)		MW-140 (100 feet bgs)													
			Frac Retained	$f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.1104	0.06676												
	3/8"	0.9500	0.0345	0.03250	0.0388	0.03655												
	1/4"	0.6351	0.0238	0.03183	0.0269	0.03598												
	4,757 (No. 4)	0.4757	0.0091	0.01701	0.0085	0.01589												
Coarse Sand	3,364 (No. 6)	0.3364	0.0112	0.02891	0.0077	0.01988												
	2,000 (No. 10)	0.2000	0.0132	0.05341	0.0156	0.06312												
Medium Sand	1414 (No. 14)	0.1414	0.0097	0.05952	0.0219	0.13437												
	1000 (No. 18)	0.1000	0.0133	0.11536	0.0542	0.47013												
	707 (No. 25)	0.0707	0.0184	0.22564	0.1483	1.81860												
	500 (No. 35)	0.0500	0.0397	0.68824	0.1829	3.17074												
	420 (No. 40)	0.0420	0.0315	0.69678	0.0762	1.68553												
Fine Sand	354 (No. 45)	0.0354	0.0304	0.79877	0.0572	1.50296												
	250 (No. 60)	0.0250	0.1023	3.54245	0.1413	4.89295												
	177 (No. 80)	0.0177	0.0736	3.60218	0.0286	1.39976												
	125 (No. 120)	0.0125	0.0994	6.87929	0.0268	1.85478												
	74 (No. 200)	0.0074	0.1024	11.14180	0.0261	2.83985												
Silt and Clay	53 (No. 270)	0.0053	0.1257	20.61681	0.0111	1.82058												
	37 (No. 400)	0.0037	0.0726	16.87521	0.0051	1.18545												
	25	0.0025	0.0630	21.39156	0.0042	1.41404												
	15.6	0.00156	0.0630	33.18130	0.0042	2.19337												
	5	0.0005	0.0630	79.00613	0.0042	5.22251												
Sum			1.00	198.985	1.00	31.844												
Estimated Maximum k (cm/sec)				2.40E-03		9.38E-02												
Estimated Median k (cm/sec)				1.03E-03		4.02E-02												
Estimated Minimum k (cm/sec)				3.41E-04		1.33E-02												
% Gravel			6.7		18.5													
% Sand			54.5		78.7													
% Silt and Clay			38.7		2.9													
<p>Notes: 1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3 / (1-\Theta)^2] * (1.99 \times 10^4) / \{ (\Sigma [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2 \}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirica                      Kozeny-Carmon coefficient (1/cm-sec  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table style="margin-left: 40px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> <p>4. Estimated porosities:</p> <table style="margin-left: 40px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
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**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	B-212 (54 feet bgs)		MW-136 (77 feet bgs)		MW-137 (50 feet bgs)	
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$
Gravel	1/4"	0.6351	0.000	—	0.000	—	0.000	—
	4,757 (No. 4)	0.4757	0.000	0.00000	0.000	0.00000	0.000	0.00000
Course Sand	3,364 (No. 6)	0.3364	0.000	0.00000	0.000	0.00000	0.000	0.00000
	2,000 (No. 10)	0.2000	0.000	0.00000	0.000	0.00000	0.000	0.00000
Medium Sand	1,189 (No. 16)	0.1189	0.000	0.00000	0.000	0.00000	0.000	0.00000
	841 (No. 20)	0.0841	0.000	0.00000	0.000	0.00000	0.000	0.00000
	707 (No. 25)	0.0707	0.000	0.00000	0.000	0.00000	0.000	0.00000
	595 (No. 30)	0.0595	0.000	0.00000	0.000	0.00000	0.000	0.00000
	500 (No. 35)	0.0500	0.000	0.00000	0.000	0.00000	0.000	0.00000
	420 (No. 40)	0.0420	0.000	0.00000	0.000	0.00000	0.000	0.00000
Fine Sand	354 (No. 45)	0.0354	0.000	0.00000	0.000	0.00000	0.000	0.00000
	297 (No. 50)	0.0297	0.000	0.00000	0.000	0.00000	0.000	0.00000
	250 (No. 60)	0.0250	0.000	0.00000	0.000	0.00000	0.000	0.00000
	210 (No. 70)	0.0210	0.000	0.00000	0.000	0.00000	0.000	0.00000
	177 (No. 80)	0.0177	0.000	0.00000	0.000	0.00000	0.000	0.00000
	149 (No. 100)	0.0149	0.000	0.00000	0.000	0.00000	0.000	0.00000
	125 (No. 120)	0.0125	0.0007	0.05194	0.0007	0.05194	0.000	0.00000
	105 (No. 140)	0.0105	0.0025	0.22089	0.0026	0.22973	0.000	0.00000
	88 (No. 170)	8.80E-03	0.0050	0.52655	0.0032	0.33699	0.0001	0.01053
	74 (No. 200)	7.40E-03	0.0081	1.01560	0.0021	0.26330	0.0006	0.07523
	Silt	63 (No. 230)	6.30E-03	0.0128	1.89423	0.0014	0.20718	0.0018
53 (No. 270)		5.30E-03	0.0197	3.44817	0.0021	0.36757	0.0037	0.64763
44.2 (No. 325)		4.42E-03	0.0276	5.77132	0.0042	0.87824	0.0066	1.38010
37.2 (No. 400)		3.72E-03	0.0367	9.15045	0.0060	1.49599	0.0124	3.09170
31.3 (No. 450)		3.13E-03	0.0458	13.56804	0.0069	2.04409	0.0206	6.10266
25.0 (No. 500)		2.50E-03	0.0539	19.57107	0.0084	3.05004	0.0295	10.71144
20.1 (No. 635)		2.01E-03	0.0766	34.67842	0.0157	7.10772	0.0485	21.95697
15.6		1.56E-03	0.0817	46.97012	0.0244	14.02780	0.0585	33.63222
11.0		1.10E-03	0.0931	72.99594	0.0358	28.06933	0.0750	58.80446
7.81		7.81E-04	0.1275	141.14327	0.0735	81.36494	0.1235	136.71525
5.00		5.00E-04	0.1094	181.34231	0.1069	177.19829	0.1316	218.14121

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	B-212 (54 feet bgs)		MW-136 (77 feet bgs)		MW-137 (50 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Clay	1.95	1.95E-04	0.1044	362.86579	0.1623	564.11032	0.1517	527.26762												
	0.977	0.0000977	0.1104	846.85260	0.3055	2343.41910	0.2019	1548.72772												
	0.488	0.0000488	0.0502	769.44312	0.1532	2348.18099	0.0850	1302.84193												
	0.375	0.0000375	0.0339	804.50637	0.0850	2017.19886	0.0491	1165.22899												
Sum			1.00	3316.016	1.00	7589.602	1.00	5035.602												
Estimated Maximum k (cm/sec)				8.65E-06		1.65E-06		3.75E-06												
Estimated Median k (cm/sec)				3.71E-06		7.08E-07		1.61E-06												
Estimated Minimum k (cm/sec)				1.23E-06		2.34E-07		5.32E-07												
% Gravel			0.0		0.0		0.0													
% Sand			1.6		0.9		0.1													
% Silt and Clay			98.4		99.1		99.9													
<p>Notes:</p> <p>1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\Sigma[f_i/(d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carmon coefficient (1/cm-sec)  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table style="margin-left: 40px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> <p>4. Estimated porosities:</p> <table style="margin-left: 40px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>									Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																			
Median	6.25																			
Worn	6.4																			
Maximum	0.40																			
Median	0.33																			
Minimum	0.25																			

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (microns)	Screen Size (cm)	B-206 (48 feet bgs)	
				Frac Retained	$f_i / (d_{li}^{0.404} \times d_{si}^{0.595})$
Coarse Gravel	2"	50800	5.08	0.000	—
	1½"	38100	3.81	0.000	0.00000
	1"	25400	2.54	0.000	0.00000
	¾"	19050	1.905	0.000	0.00000
Fine Gravel	½"	12700	1.27	0.000	0.00000
	⅜"	9525	0.9525	0.000	0.00000
	4,750 (No. 4)	4750	0.4750	0.030	0.04765
Coarse Sand	2,000 (No. 10)	2000	0.2000	0.056	0.19710
Medium Sand	850 (No. 20)	850	0.0850	0.072	0.59802
	425 (No. 40)	425	0.0425	0.163	2.88942
Fine Sand	250 (No. 60)	250	0.0250	0.236	7.59047
	150 (No. 100)	150	0.0150	0.154	8.31723
	75 (No. 200)	75	0.0075	0.089	8.92458
Silt and Clay	32	32	0.0032	0.065	14.31609
	22	22	0.0022	0.023	8.93112
	13	13	0.0013	0.031	19.15255
	9	9	0.0009	0.015	14.26540
	7	7	0.0007	0.012	15.37567
	3.2	3.2	0.00032	0.015	33.89280
	1.3	1.3	0.00013	0.038	201.32917
Sum				1.00	335.827
Estimated Maximum k (cm/sec)					8.43E-04
Estimated Median k (cm/sec)					3.62E-04
Estimated Minimum k (cm/sec)					1.20E-04
% Gravel				3.0	
% Sand				77.0	
% Silt and Clay				19.9	
Notes:					
1. Kozeny-Carman Equation:					
$k = [\Theta^3 / (1 - \Theta)^2] * (1.99 \times 10^4) / \{ (\sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2 \}$					
where					
1.99 x 10 <sup>4</sup> = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carmon coefficient (1/cm-sec)					
f <sub>i</sub> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)					
d <sub>li</sub> = diameter of larger sieve in pair (cm)					
d <sub>si</sub> = diameter of smaller sieve in pair (cm)					
SF = grain shape factor (dimensionless)					
2. Frac retained = fraction (by weight) retained on screen					
3. Estimated shape factors:					
				Rounded	6.1
				Median	6.25
				Worn	6.4
4. Estimated porosities:					
				Maximum	0.40
				Median	0.33
				Minimum	0.25

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-145 (80 feet bgs)		MW-147 (81 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.2900	0.17536												
	3/8"	0.9500	0.0080	0.00754	0.0880	0.08290												
	1/4"	0.6351	0.0260	0.03478	0.0960	0.12840												
	4,757 (No. 4)	0.4757	0.0110	0.02056	0.0430	0.08037												
Coarse Sand	3,364 (No. 6)	0.3364	0.0120	0.03098	0.0530	0.13682												
	2,000 (No. 10)	0.2000	0.0160	0.06474	0.0480	0.19421												
Medium Sand	1414 (No. 14)	0.1414	0.0120	0.07363	0.0290	0.17794												
	1000 (No. 18)	0.1000	0.0120	0.10409	0.0260	0.22552												
	707 (No. 25)	0.0707	0.0180	0.22073	0.0300	0.36789												
	500 (No. 35)	0.0500	0.0350	0.60676	0.0430	0.74545												
Fine Sand	420 (No. 40)	0.0420	0.0230	0.50876	0.0220	0.48664												
	354 (No. 45)	0.0354	0.0330	0.86709	0.0250	0.65689												
	250 (No. 60)	0.0250	0.0810	2.80487	0.0420	1.45438												
	177 (No. 80)	0.0177	0.0710	3.47493	0.0260	1.27251												
Silt	125 (No. 120)	0.0125	0.0480	3.32199	0.0170	1.17654												
	5	0.0005	0.1530	82.72802	0.0240	12.97694												
Clay	2	0.0002	0.1210	414.27492	0.0200	68.47519												
	1	0.0001	0.1740	1302.96614	0.0130	97.34804												
	0.5	0.00005	0.0920	1376.89453	0.0300	448.98735												
	0.4	0.00004	0.0540	1221.19265	0.0350	791.51376												
Sum			1.00	4410.198	1.00	1426.663												
Estimated Maximum k (cm/sec)				4.89E-06		4.67E-05												
Estimated Median k (cm/sec)				2.10E-06		2.00E-05												
Estimated Minimum k (cm/sec)				6.94E-07		6.63E-06												
% Gravel			4.5		51.7													
% Sand			36.1		36.1													
% Silt			15.3		2.4													
% Clay			44.1		9.8													
<p>Notes:</p> <p>1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3 / (1 - \Theta)^2] * (1.99 \times 10^4) / \{ \sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})]^2 * SF^2 \}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carman coefficient (1/cm-sec)  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>2. Frac retained = fraction (by weight) retained on screen</p> <p>3. Estimated shape factors:</p> <table style="margin-left: 200px;"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> <p>4. Estimated porosities:</p> <table style="margin-left: 200px;"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-148 (60 feet bgs)		MW-153 (80 feet bgs)	
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.0170	0.01028
	3/8"	0.9500	0.0000	0.00000	0.0000	0.00000
	1/4"	0.6351	0.0000	0.00000	0.0130	0.01739
	4,757 (No. 4)	0.4757	0.0000	0.00000	0.0140	0.02617
Coarse Sand	3,364 (No. 6)	0.3364	0.0010	0.00258	0.0140	0.03614
	2,000 (No. 10)	0.2000	0.0010	0.00405	0.0220	0.08901
Medium Sand	1414 (No. 14)	0.1414	0.0020	0.01227	0.0390	0.23929
	1000 (No. 18)	0.1000	0.0110	0.09541	0.0250	0.21685
	707 (No. 25)	0.0707	0.0490	0.60089	0.0410	0.50278
	500 (No. 35)	0.0500	0.1560	2.70441	0.0600	1.04016
Fine Sand	420 (No. 40)	0.0420	0.1260	2.78711	0.0350	0.77420
	354 (No. 45)	0.0354	0.1700	4.46683	0.0410	1.07729
	250 (No. 60)	0.0250	0.2840	9.83437	0.0860	2.97801
Silt	177 (No. 80)	0.0177	0.0880	4.30696	0.0670	3.27916
	125 (No. 120)	0.0125	0.0280	1.93783	0.0450	3.11437
	5	0.0005	0.0040	2.16282	0.3720	201.14264
	2	0.0002	0.0170	58.20391	0.0300	102.71279
Clay	1	0.0001	0.0430	321.99738	0.0380	284.55582
	0.5	0.00005	0.0100	149.66245	0.0250	374.15612
	0.4	0.00004	0.0100	226.14679	0.0160	361.83486
	Sum		1.00	784.926	1.00	1337.803
Estimated Maximum k (cm/sec)				1.54E-04		5.31E-05
Estimated Median k (cm/sec)				6.62E-05		2.28E-05
Estimated Minimum k (cm/sec)				2.19E-05		7.54E-06
% Gravel			0.0		4.4	
% Sand			91.6		47.5	
% Silt			0.4		37.2	
% Clay			8.0		10.9	

Notes:	1. Kozeny-Carman Equation:
	$k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\Sigma[f_i/(d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}$
	where $\Theta$ = total porosity
	$1.99 \times 10^4$ = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carman coefficient (1/cm-sec)
	$f_i$ = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)
	$d_{li}$ = diameter of larger sieve in pair (cm)
	$d_{si}$ = diameter of smaller sieve in pair (cm)
	SF = grain shape factor (dimensionless)
	2. Frac retained = fraction (by weight) retained on screen
	3. Estimated shape factors:
	Rounded 6.1
	Median 6.25
	Worn 6.4
	4. Estimated porosities:
	Maximum 0.40
	Median 0.33
	Minimum 0.25



**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-153 (90 to 100 feet bgs)		MW-158A (100 feet bgs)	
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$
Coarse Gravel	1"	2.5002	0.0000	-	0.0000	-
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.0000	0.00000
	3/8"	0.9500	0.0010	0.00094	0.0400	0.03768
	1/4"	0.6351	0.0000	0.00000	0.1190	0.15917
	4,757 (No. 4)	0.4757	0.0000	0.00000	0.1070	0.20000
Coarse Sand	3,364 (No. 6)	0.3364	0.0000	0.00000	0.1500	0.38723
	2,000 (No. 10)	0.2000	0.0020	0.00809	0.1660	0.67165
Medium Sand	1414 (No. 14)	0.1414	0.0060	0.03681	0.1320	0.80992
	1000 (No. 18)	0.1000	0.0160	0.13878	0.0730	0.63320
	707 (No. 25)	0.0707	0.0650	0.79709	0.0580	0.71125
	500 (No. 35)	0.0500	0.2310	4.00460	0.0270	0.46807
Fine Sand	420 (No. 40)	0.0420	0.1640	3.62766	0.0170	0.37604
	354 (No. 45)	0.0354	0.1590	4.17780	0.0090	0.23648
	250 (No. 60)	0.0250	0.1850	6.40619	0.0050	0.17314
	177 (No. 80)	0.0177	0.0680	3.32811	0.0040	0.19577
Silt	125 (No. 120)	0.0125	0.0290	2.00704	0.0030	0.20762
	5	0.0005	0.0240	12.97694	0.0490	26.49459
Clay	2	0.0002	0.0140	47.93264	0.0110	37.66136
	1	0.0001	0.0180	134.78960	0.0170	127.30129
	0.5	0.00005	0.0100	149.66245	0.0080	119.72996
	0.4	0.00004	0.0070	158.30275	0.0050	113.07339
Sum			1.00	528.198	1.00	429.528
Estimated Maximum k (cm/sec)				3.41E-04		5.15E-04
Estimated Median k (cm/sec)				1.46E-04		2.21E-04
Estimated Minimum k (cm/sec)				4.84E-05		7.31E-05
% Gravel			0.1		26.6	
% Sand			92.5		64.4	
% Silt			2.4		4.9	
% Clay			4.9		4.1	
Notes:						
1. Kozeny-Carman Equation:						
$k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{(\sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})])^2 * SF^2\}$						
where $\Theta$ = total porosity						
$1.99 \times 10^4$ = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carman coefficient (1/cm-sec)						
$f_i$ = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)						
$d_{li}$ = diameter of larger sieve in pair (cm)						
$d_{si}$ = diameter of smaller sieve in pair (cm)						
SF = grain shape factor (dimensionless)						
2. Frac retained = fraction (by weight) retained on screen						
3. Estimated shape factors:						
						Rounded 6.1
						Median 6.25
						Worn 6.4
4. Estimated porosities:						
						Maximum 0.40
						Median 0.33
						Minimum 0.25

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-159 (25 feet bgs)		MW-160 (100 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0000	0.00000	0.0000	0.00000												
	3/8"	0.9500	0.0000	0.00000	0.0000	0.00000												
	1/4"	0.6351	0.0000	0.00000	0.0000	0.00000												
	4,757 (No. 4)	0.4757	0.0000	0.00000	0.0030	0.00561												
Coarse Sand	3,364 (No. 6)	0.3364	0.0020	0.00516	0.0010	0.00258												
	2,000 (No. 10)	0.2000	0.0110	0.04451	0.0020	0.00809												
Medium Sand	1414 (No. 14)	0.1414	0.0130	0.07976	0.0020	0.01227												
	1000 (No. 18)	0.1000	0.0120	0.10409	0.0050	0.04337												
	707 (No. 25)	0.0707	0.0170	0.20847	0.0110	0.13489												
	500 (No. 35)	0.0500	0.0370	0.64143	0.0430	0.74545												
	420 (No. 40)	0.0420	0.0250	0.55300	0.0520	1.15023												
Fine Sand	354 (No. 45)	0.0354	0.0340	0.89337	0.1010	2.65382												
	250 (No. 60)	0.0250	0.0820	2.83950	0.3730	12.91627												
	177 (No. 80)	0.0177	0.0860	4.20907	0.1750	8.56498												
	125 (No. 120)	0.0125	0.0740	5.12140	0.0500	3.46041												
Silt	5	0.0005	0.4180	226.01511	0.1190	64.34402												
Clay	2	0.0002	0.0750	256.78197	0.0170	58.20391												
	1	0.0001	0.0620	464.27529	0.0250	187.20778												
	0.5	0.00005	0.0290	434.02110	0.0120	179.59494												
	0.4	0.00004	0.0230	520.13761	0.0090	203.53211												
Sum			1.00	1915.931	1.00	722.581												
Estimated Maximum k (cm/sec)				2.59E-05		1.82E-04												
Estimated Median k (cm/sec)				1.11E-05		7.81E-05												
Estimated Minimum k (cm/sec)				3.68E-06		2.58E-05												
% Gravel			0.0		0.3													
% Sand			39.3		81.5													
% Silt			41.8		11.9													
% Clay			18.9		6.3													
<p>Notes: 1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3/(1-\Theta)^2] * (1.99 \times 10^4) / \{ \sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})]^2 * SF^2 \}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carmon coefficient (1/cm-sec)  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>3. Estimated shape factors:</p> <table> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> <p>4. Estimated porosities:</p> <table> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-160 (127.5 feet bgs)		MW-161 (100 feet bgs)													
			Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$	Frac Retained	$f_i/(d_{li}^{0.404} \times d_{si}^{0.595})$												
Coarse Gravel	1"	2.5002	0.0000	—	0.0000	—												
Fine Gravel	1/2"	1.2501	0.0690	0.04172	0.0000	0.00000												
	3/8"	0.9500	0.0270	0.02544	0.0000	0.00000												
	1/4"	0.6351	0.0590	0.07892	0.0090	0.01204												
	4,757 (No. 4)	0.4757	0.0350	0.06542	0.0210	0.03925												
Coarse Sand	3,364 (No. 6)	0.3364	0.0410	0.10584	0.0130	0.03356												
	2,000 (No. 10)	0.2000	0.0700	0.28323	0.0210	0.08497												
Medium Sand	1414 (No. 14)	0.1414	0.0540	0.33133	0.0170	0.10431												
	1000 (No. 18)	0.1000	0.0480	0.41635	0.0260	0.22552												
	707 (No. 25)	0.0707	0.0400	0.49052	0.0490	0.60089												
	500 (No. 35)	0.0500	0.0480	0.83213	0.1080	1.87228												
Fine Sand	420 (No. 40)	0.0420	0.0210	0.46452	0.1000	2.21199												
	354 (No. 45)	0.0354	0.0240	0.63061	0.1570	4.12525												
	250 (No. 60)	0.0250	0.0460	1.59289	0.2950	10.21528												
	177 (No. 80)	0.0177	0.0380	1.85982	0.0930	4.55167												
Silt	125 (No. 120)	0.0125	0.0310	2.14545	0.0220	1.52258												
	5	0.0005	0.2120	114.62968	0.0260	14.05836												
Clay	2	0.0002	0.0310	106.13655	0.0110	37.66136												
	1	0.0001	0.0540	404.36880	0.0180	134.78960												
	0.5	0.00005	0.0320	478.91984	0.0090	134.69620												
	0.4	0.00004	0.0190	429.67890	0.0060	135.68807												
Sum			1.00	1543.098	1.00	482.493												
Estimated Maximum k (cm/sec)				3.99E-05		4.08E-04												
Estimated Median k (cm/sec)				1.71E-05		1.75E-04												
Estimated Minimum k (cm/sec)				5.67E-06		5.80E-05												
% Gravel			19.0		3.0													
% Sand			46.1		90.1													
% Silt			21.2		2.6													
% Clay			13.6		4.4													
<p>Notes: 1. Kozeny-Carman Equation:  <math display="block">k = [\Theta^3 / (1 - \Theta)^2] * (1.99 \times 10^4) / \{ \sum [f_i / (d_{li}^{0.404} \times d_{si}^{0.595})]^2 * SF^2 \}</math>                     where <math>\Theta</math> = total porosity  <math>1.99 \times 10^4</math> = constant incorporating unit weight and viscosity of water and the empirical Kozeny-Carman coefficient (1/cm-sec)  <math>f_i</math> = fraction of particles retained on the smaller sieve of adjacent sieve pairs (dimensionless)  <math>d_{li}</math> = diameter of larger sieve in pair (cm)  <math>d_{si}</math> = diameter of smaller sieve in pair (cm)                      SF = grain shape factor (dimensionless)</p> <p>3. Estimated shape factors:</p> <table border="0"> <tr><td>Rounded</td><td>6.1</td></tr> <tr><td>Median</td><td>6.25</td></tr> <tr><td>Worn</td><td>6.4</td></tr> </table> <p>4. Estimated porosities:</p> <table border="0"> <tr><td>Maximum</td><td>0.40</td></tr> <tr><td>Median</td><td>0.33</td></tr> <tr><td>Minimum</td><td>0.25</td></tr> </table>							Rounded	6.1	Median	6.25	Worn	6.4	Maximum	0.40	Median	0.33	Minimum	0.25
Rounded	6.1																	
Median	6.25																	
Worn	6.4																	
Maximum	0.40																	
Median	0.33																	
Minimum	0.25																	

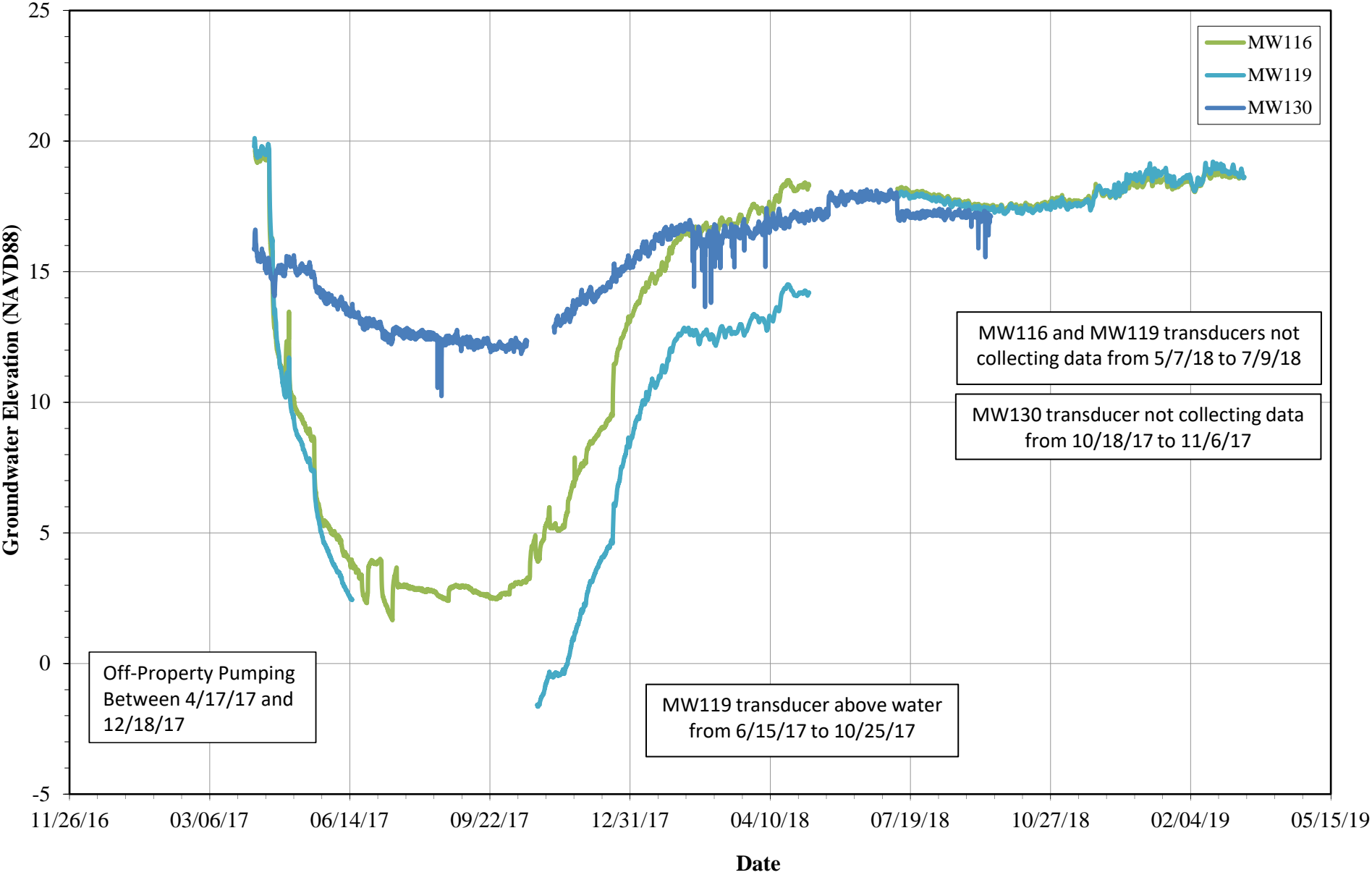
**Table C-15**

**Estimated Hydraulic Conductivity Based On Grain Size Analyses  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Particle Type	Screen Size (microns)	Screen Size (cm)	MW-161 (140 feet bgs)	
			Frac Retained	$f_i / (d_i^{0.404} \times d_{si}^{0.595})$
Coarse Gravel	1"	2.5002	0.0000	—
Fine Gravel	½"	1.2501	0.0150	0.00907
	⅜"	0.9500	0.0090	0.00848
	¼"	0.6351	0.0750	0.10032
	4,757 (No. 4)	0.4757	0.0550	0.10280
Coarse Sand	3,364 (No. 6)	0.3364	0.0640	0.16522
	2,000 (No. 10)	0.2000	0.0990	0.40056
Medium Sand	1414 (No. 14)	0.1414	0.0670	0.41109
	1000 (No. 18)	0.1000	0.0540	0.46839
	707 (No. 25)	0.0707	0.0430	0.52731
	500 (No. 35)	0.0500	0.0470	0.81479
Fine Sand	420 (No. 40)	0.0420	0.0200	0.44240
	354 (No. 45)	0.0354	0.0220	0.57806
	250 (No. 60)	0.0250	0.0420	1.45438
	177 (No. 80)	0.0177	0.0340	1.66405
Silt	125 (No. 120)	0.0125	0.0270	1.86862
	5	0.0005	0.2130	115.17038
Clay	2	0.0002	0.0240	82.17023
	1	0.0001	0.0450	336.97400
	0.5	0.00005	0.0270	404.08861
	0.4	0.00004	0.0170	384.44954
Sum			1.00	1331.868
Estimated Maximum k (cm/sec)				5.36E-05
Estimated Median k (cm/sec)				2.30E-05
Estimated Minimum k (cm/sec)				7.61E-06
% Gravel			15.4	
% Sand			51.9	
% Silt			21.3	
% Clay			11.3	
Notes:				

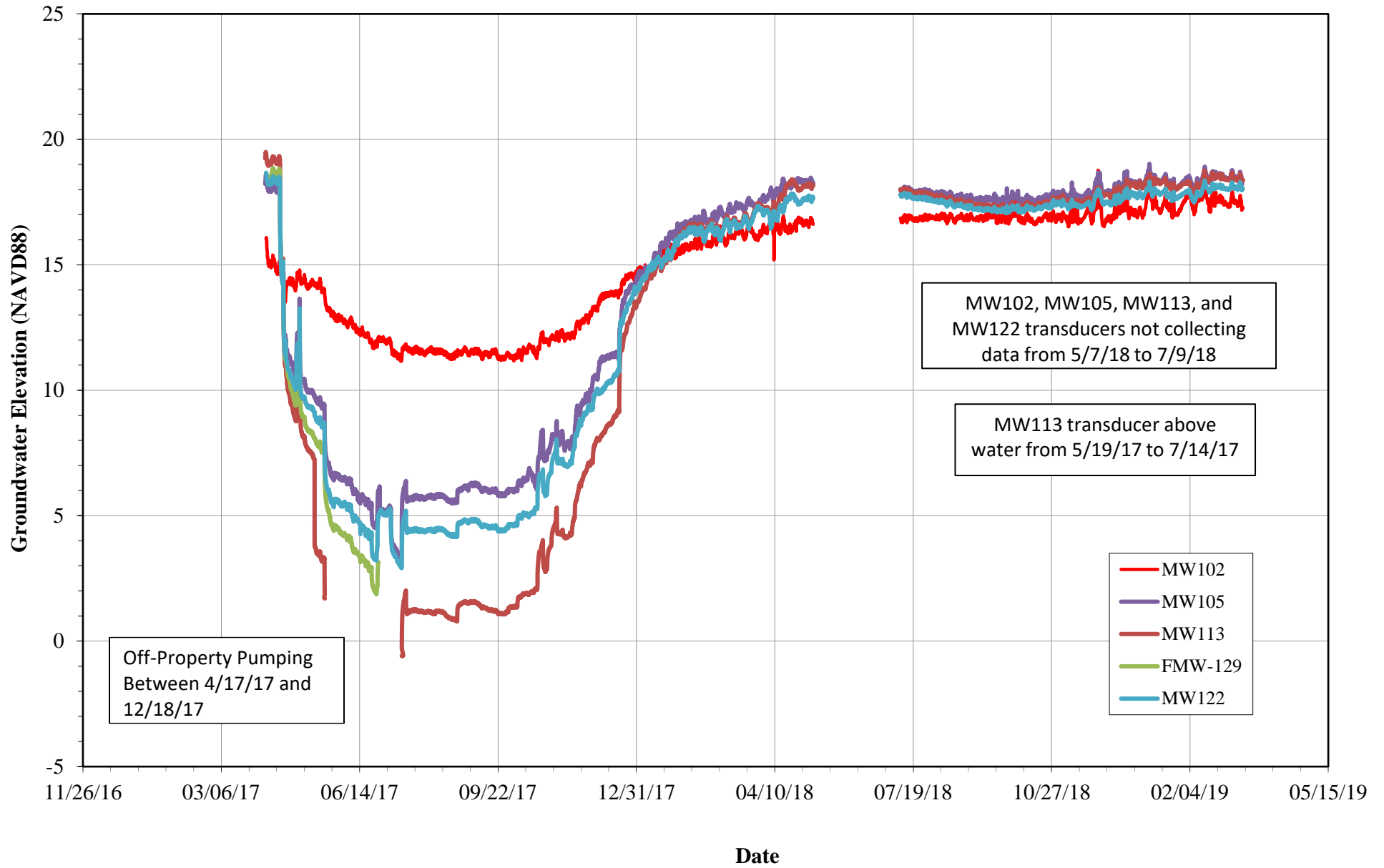
**APPENDIX D**  
**HYDROGRAPHS**

**Hydrograph -- Intermediate Zone  
American Linen, Seattle, Washington**

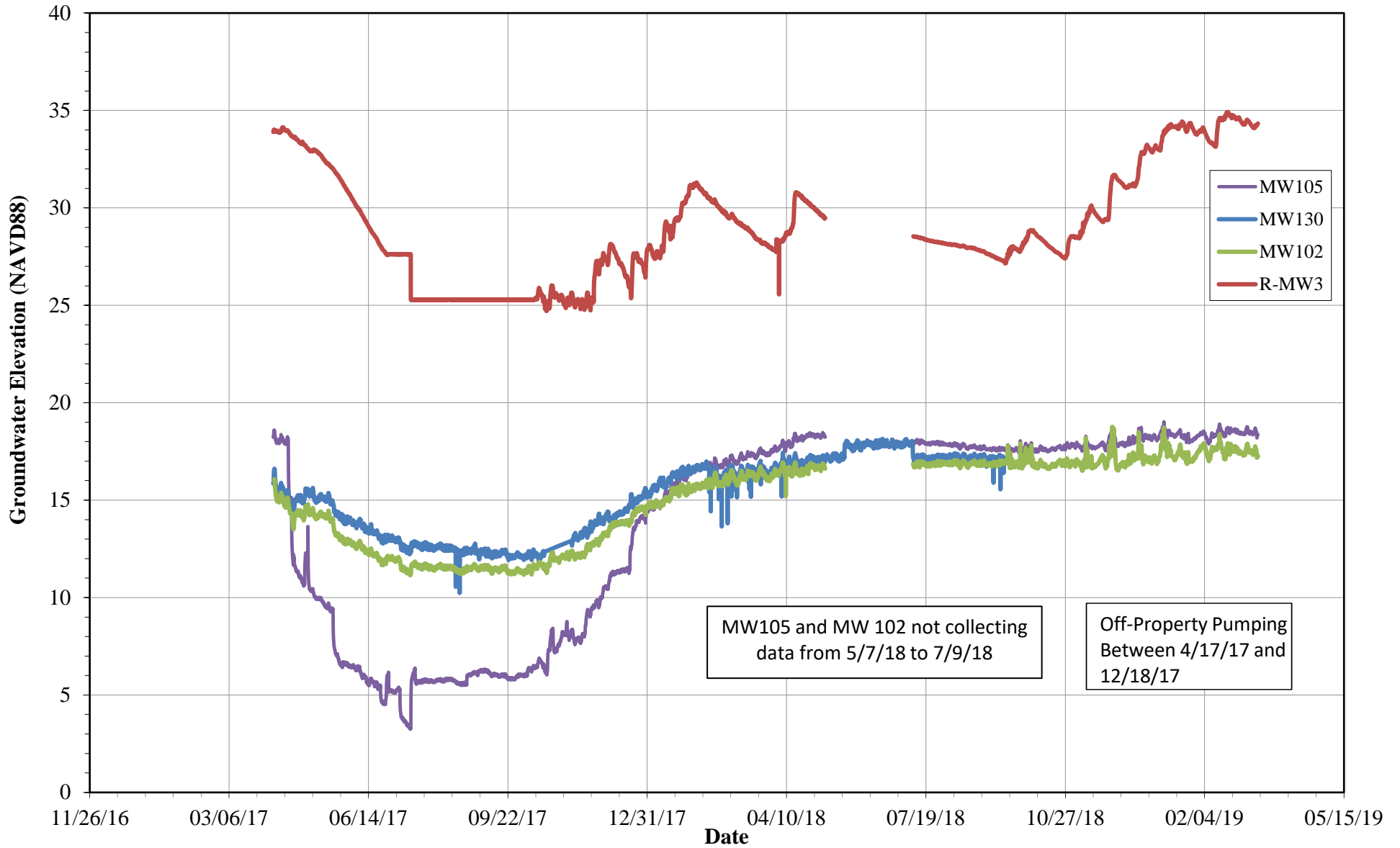




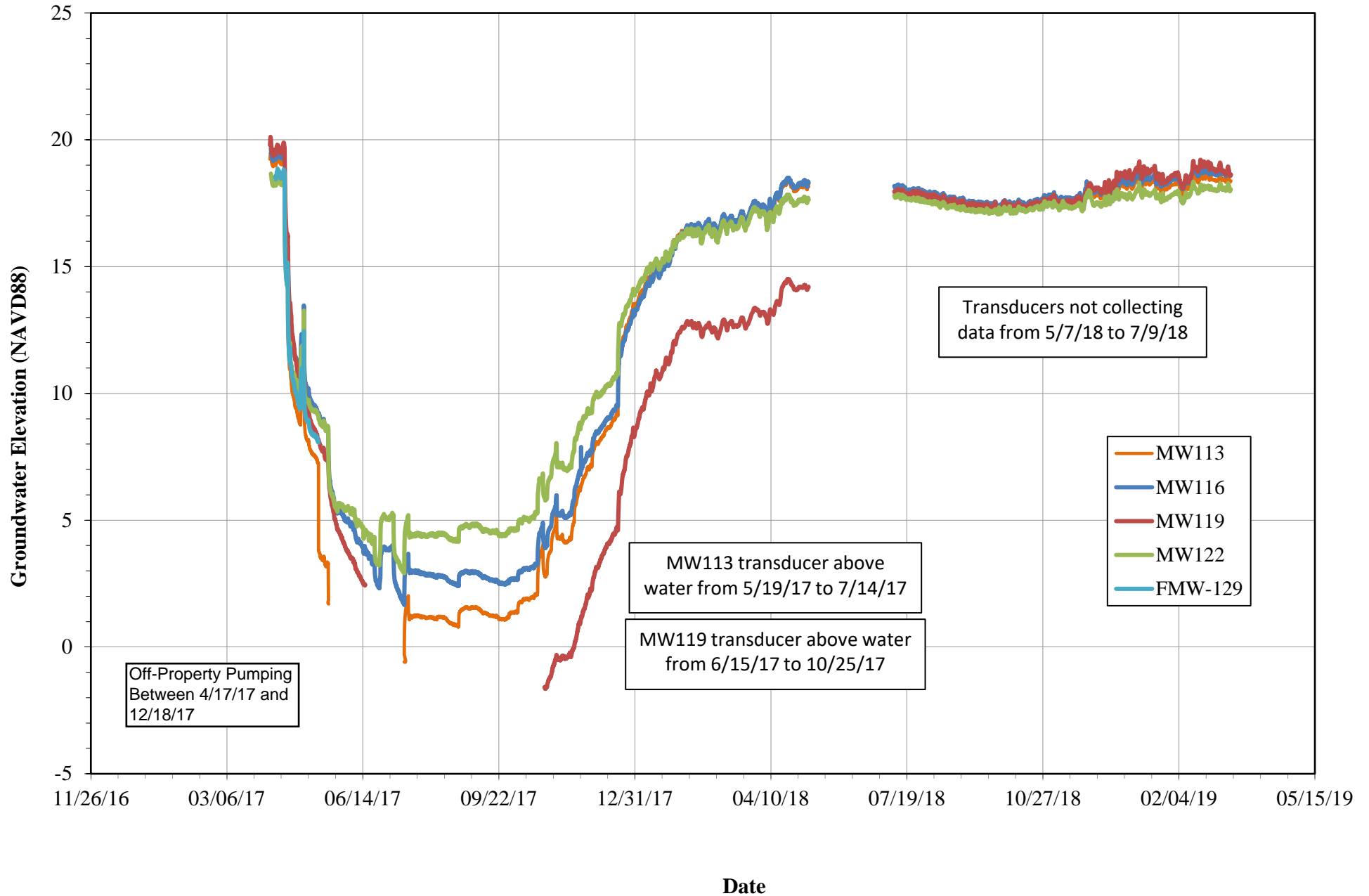
### Hydrograph -- Deep Zone American Linen, Seattle, Washington



### Hydrograph -- Wells West of Alley Between 8th & 9th Avenue North American Linen, Seattle, Washington



### Hydrograph -- Wells East of Alley Between 8th & 9th Avenue North American Linen, Seattle, Washington



**APPENDIX E**

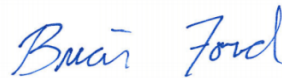
**2018 AND 2019 ANALYTICAL DATA (DISC ONLY)**

September 11, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1022679  
Samples Received: 09/01/2018  
Project Number: 1413.001.05.304  
Description: American Linen  
Site: 1413001.05.304  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	
IW-22C-62 L1022679-01	<b>5</b>	
IW-22C-78 L1022679-02	<b>7</b>	
TRIP BLANK L1022679-03	<b>9</b>	
<b>Qc: Quality Control Summary</b>	<b>11</b>	
Total Solids by Method 2540 G-2011	<b>11</b>	
Volatile Organic Compounds (GC/MS) by Method 8260C	<b>12</b>	
<b>Gl: Glossary of Terms</b>	<b>22</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>23</b>	
<b>Sc: Sample Chain of Custody</b>	<b>24</b>	

# SAMPLE SUMMARY



## IW-22C-62 L1022679-01 Solid

Collected by: Ben Hecht  
 Collected date/time: 08/31/18 09:35  
 Received date/time: 09/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1163747	1	09/10/18 13:07	09/10/18 13:20	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1163811	1.07	08/31/18 09:35	09/10/18 12:18	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1163971	42.4	08/31/18 09:35	09/10/18 17:39	BMB

1  
Cp

2  
Tc

3  
Ss

## IW-22C-78 L1022679-02 Solid

Collected by: Ben Hecht  
 Collected date/time: 08/31/18 13:00  
 Received date/time: 09/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1163747	1	09/10/18 13:07	09/10/18 13:20	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1163811	1	08/31/18 13:00	09/10/18 12:37	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1163971	40	08/31/18 13:00	09/10/18 17:58	BMB

4  
Cn

5  
Sr

6  
Qc

## TRIP BLANK L1022679-03 GW

Collected by: Ben Hecht  
 Collected date/time: 08/31/18 00:00  
 Received date/time: 09/01/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1161708	1	09/05/18 16:43	09/05/18 16:43	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1162010	1	09/06/18 02:34	09/06/18 02:34	RAS

7  
Gl

8  
Al

9  
Sc





All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	09/10/2018 13:20	<a href="#">WG1163747</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0193	J	0.0158	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Acrylonitrile	U		0.00219	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Benzene	U		0.000462	0.00115	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromobenzene	U		0.00121	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromodichloromethane	U	J4	0.000910	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromochloromethane	U		0.00131	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromoform	U		0.00691	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromomethane	U		0.00427	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
n-Butylbenzene	U		0.00443	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
sec-Butylbenzene	U		0.00292	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
tert-Butylbenzene	U		0.00179	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Carbon disulfide	U		0.00468	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Carbon tetrachloride	U	J4	0.00125	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chlorobenzene	U		0.000661	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chlorodibromomethane	U		0.000520	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chloroethane	U		0.00125	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chloroform	U		0.000479	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chloromethane	U		0.00161	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
2-Chlorotoluene	U		0.00106	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
4-Chlorotoluene	0.00193	J	0.00131	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dibromo-3-Chloropropane	U		0.00589	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dibromoethane	U		0.000606	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Dibromomethane	U		0.00115	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dichlorobenzene	U		0.00167	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,3-Dichlorobenzene	U		0.00196	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,4-Dichlorobenzene	U		0.00228	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Dichlorodifluoromethane	U		0.000944	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,1-Dichloroethane	U		0.000664	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dichloroethane	U		0.000548	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,1-Dichloroethene	0.00263	J	0.000577	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
cis-1,2-Dichloroethene	0.305		0.000796	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
trans-1,2-Dichloroethene	U		0.00165	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dichloropropane	U		0.0581	0.229	42.4	09/10/2018 17:39	<a href="#">WG1163971</a>
1,1-Dichloropropene	U		0.000808	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,3-Dichloropropane	U		0.00202	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
cis-1,3-Dichloropropene	U		0.000782	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
trans-1,3-Dichloropropene	U		0.00177	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
trans-1,4-Dichloro-2-butene	U		0.00162	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
2,2-Dichloropropane	U		0.000915	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Di-isopropyl ether	U		0.000404	0.00115	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Ethylbenzene	0.00123	J	0.000612	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
2-Hexanone	U		0.0115	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
n-Hexane	U		0.00122	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Iodomethane	U		0.00698	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Isopropylbenzene	U		0.000996	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
p-Isopropyltoluene	U		0.00269	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
2-Butanone (MEK)	0.0342		0.0145	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Methylene Chloride	U		0.00766	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/31/18 09:35

L1022679

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000341	0.00115	1.07	09/10/2018 12:18	WG1163811
Naphthalene	U		0.00360	0.0144	1.07	09/10/2018 12:18	WG1163811
n-Propylbenzene	0.00179	J	0.00136	0.00577	1.07	09/10/2018 12:18	WG1163811
Styrene	U		0.00315	0.0144	1.07	09/10/2018 12:18	WG1163811
1,1,1,2-Tetrachloroethane	U		0.000577	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2,2-Tetrachloroethane	U		0.000450	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2-Trichlorotrifluoroethane	U		0.000779	0.00289	1.07	09/10/2018 12:18	WG1163811
Tetrachloroethene	14.5		0.0320	0.114	42.4	09/10/2018 17:39	WG1163971
Toluene	0.00954		0.00145	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trichlorobenzene	U		0.000722	0.00289	1.07	09/10/2018 12:18	WG1163811
1,2,4-Trichlorobenzene	U		0.00557	0.0144	1.07	09/10/2018 12:18	WG1163811
1,1,1-Trichloroethane	U		0.000317	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2-Trichloroethane	U		0.00102	0.00289	1.07	09/10/2018 12:18	WG1163811
Trichloroethene	0.708		0.0183	0.0458	42.4	09/10/2018 17:39	WG1163971
Trichlorofluoromethane	U		0.000577	0.00289	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trichloropropane	U		0.00589	0.0144	1.07	09/10/2018 12:18	WG1163811
1,2,4-Trimethylbenzene	0.0107		0.00134	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trimethylbenzene	0.00278	J	0.00133	0.00577	1.07	09/10/2018 12:18	WG1163811
1,3,5-Trimethylbenzene	0.00366	J	0.00125	0.00577	1.07	09/10/2018 12:18	WG1163811
Vinyl acetate	U	J3	0.00407	0.0144	1.07	09/10/2018 12:18	WG1163811
Vinyl chloride	U		0.000789	0.00289	1.07	09/10/2018 12:18	WG1163811
Xylenes, Total	U		0.219	0.297	42.4	09/10/2018 17:39	WG1163971
(S) Toluene-d8	97.4			75.0-131		09/10/2018 12:18	WG1163811
(S) Toluene-d8	98.9			75.0-131		09/10/2018 17:39	WG1163971
(S) Dibromofluoromethane	93.0			65.0-129		09/10/2018 12:18	WG1163811
(S) Dibromofluoromethane	115			65.0-129		09/10/2018 17:39	WG1163971
(S) 4-Bromofluorobenzene	98.7			67.0-138		09/10/2018 12:18	WG1163811
(S) 4-Bromofluorobenzene	90.9			67.0-138		09/10/2018 17:39	WG1163971

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1022679-01 WG1163811, WG1163971: Not all compounds reportable from 1x dilution.

L1022679-01 WG1163811, WG1163971: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	09/10/2018 13:20	<a href="#">WG1163747</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0166	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Acrylonitrile	U		0.00230	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Benzene	U		0.000484	0.00121	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromobenzene	U		0.00127	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromodichloromethane	U	J4	0.000954	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromochloromethane	U		0.00137	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromoform	U		0.00724	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromomethane	U		0.00448	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
n-Butylbenzene	U		0.00465	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
sec-Butylbenzene	U		0.00306	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
tert-Butylbenzene	U		0.00188	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Carbon disulfide	0.00695	J	0.00492	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Carbon tetrachloride	U	J4	0.00131	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chlorobenzene	U		0.000694	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chlorodibromomethane	U		0.000545	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chloroethane	U		0.00131	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chloroform	U		0.000503	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chloromethane	U		0.00168	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
2-Chlorotoluene	U		0.00111	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
4-Chlorotoluene	U		0.00137	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dibromo-3-Chloropropane	U		0.00618	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dibromoethane	U		0.000636	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Dibromomethane	U		0.00121	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dichlorobenzene	U		0.00176	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,3-Dichlorobenzene	U		0.00206	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,4-Dichlorobenzene	U		0.00239	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Dichlorodifluoromethane	U		0.000991	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,1-Dichloroethane	U		0.000696	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dichloroethane	U		0.000575	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,1-Dichloroethene	0.00765		0.000606	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
cis-1,2-Dichloroethene	0.975		0.000836	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
trans-1,2-Dichloroethene	U		0.00173	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dichloropropane	U		0.0615	0.242	40	09/10/2018 17:58	<a href="#">WG1163971</a>
1,1-Dichloropropene	U		0.000848	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,3-Dichloropropane	U		0.00212	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
cis-1,3-Dichloropropene	U		0.000821	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
trans-1,3-Dichloropropene	U		0.00185	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
trans-1,4-Dichloro-2-butene	U		0.00170	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
2,2-Dichloropropane	U		0.000961	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Di-isopropyl ether	U		0.000424	0.00121	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Ethylbenzene	U		0.000642	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
2-Hexanone	U		0.0121	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
n-Hexane	U		0.00128	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Iodomethane	U		0.00733	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Isopropylbenzene	U		0.00105	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
p-Isopropyltoluene	U		0.00282	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
2-Butanone (MEK)	0.0382		0.0151	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Methylene Chloride	U		0.00804	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 08/31/18 13:00

L1022679

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000357	0.00121	1	09/10/2018 12:37	WG1163811
Naphthalene	U		0.00378	0.0151	1	09/10/2018 12:37	WG1163811
n-Propylbenzene	U		0.00143	0.00606	1	09/10/2018 12:37	WG1163811
Styrene	U		0.00331	0.0151	1	09/10/2018 12:37	WG1163811
1,1,1,2-Tetrachloroethane	U		0.000606	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2,2-Tetrachloroethane	U		0.000472	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2-Trichlorotrifluoroethane	U		0.000818	0.00303	1	09/10/2018 12:37	WG1163811
Tetrachloroethene	16.6		0.0339	0.121	40	09/10/2018 17:58	WG1163971
Toluene	0.00182	J	0.00151	0.00606	1	09/10/2018 12:37	WG1163811
1,2,3-Trichlorobenzene	U		0.000757	0.00303	1	09/10/2018 12:37	WG1163811
1,2,4-Trichlorobenzene	U		0.00584	0.0151	1	09/10/2018 12:37	WG1163811
1,1,1-Trichloroethane	U		0.000333	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2-Trichloroethane	U		0.00107	0.00303	1	09/10/2018 12:37	WG1163811
Trichloroethene	0.915		0.0194	0.0484	40	09/10/2018 17:58	WG1163971
Trichlorofluoromethane	U		0.000606	0.00303	1	09/10/2018 12:37	WG1163811
1,2,3-Trichloropropane	U		0.00618	0.0151	1	09/10/2018 12:37	WG1163811
1,2,4-Trimethylbenzene	0.00241	J	0.00141	0.00606	1	09/10/2018 12:37	WG1163811
1,2,3-Trimethylbenzene	U		0.00139	0.00606	1	09/10/2018 12:37	WG1163811
1,3,5-Trimethylbenzene	U		0.00131	0.00606	1	09/10/2018 12:37	WG1163811
Vinyl acetate	U	J3	0.00426	0.0151	1	09/10/2018 12:37	WG1163811
Vinyl chloride	0.00698		0.000827	0.00303	1	09/10/2018 12:37	WG1163811
Xylenes, Total	U		0.231	0.315	40	09/10/2018 17:58	WG1163971
(S) Toluene-d8	79.8			75.0-131		09/10/2018 12:37	WG1163811
(S) Toluene-d8	96.7			75.0-131		09/10/2018 17:58	WG1163971
(S) Dibromofluoromethane	94.4			65.0-129		09/10/2018 12:37	WG1163811
(S) Dibromofluoromethane	117			65.0-129		09/10/2018 17:58	WG1163971
(S) 4-Bromofluorobenzene	90.9			67.0-138		09/10/2018 12:37	WG1163811
(S) 4-Bromofluorobenzene	86.6			67.0-138		09/10/2018 17:58	WG1163971

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1022679-02 WG1163811, WG1163971: Not all compounds reportable from 1x dilution.

L1022679-02 WG1163811, WG1163971: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Collected date/time: 08/31/18 00:00

L1022679

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.58	J	1.05	25.0	1	09/05/2018 16:43	WG1161708
Acrylonitrile	U		0.873	5.00	1	09/05/2018 16:43	WG1161708
Benzene	U		0.0896	0.500	1	09/05/2018 16:43	WG1161708
Bromobenzene	U		0.133	0.500	1	09/05/2018 16:43	WG1161708
Bromodichloromethane	U		0.0800	0.500	1	09/05/2018 16:43	WG1161708
Bromochloromethane	U		0.145	0.500	1	09/05/2018 16:43	WG1161708
Bromoform	U		0.186	0.500	1	09/05/2018 16:43	WG1161708
Bromomethane	U		0.157	2.50	1	09/05/2018 16:43	WG1161708
n-Butylbenzene	U		0.143	0.500	1	09/05/2018 16:43	WG1161708
sec-Butylbenzene	U		0.134	0.500	1	09/05/2018 16:43	WG1161708
tert-Butylbenzene	U		0.183	0.500	1	09/05/2018 16:43	WG1161708
Carbon disulfide	U		0.101	0.500	1	09/05/2018 16:43	WG1161708
Carbon tetrachloride	U		0.159	0.500	1	09/05/2018 16:43	WG1161708
Chlorobenzene	U		0.140	0.500	1	09/05/2018 16:43	WG1161708
Chlorodibromomethane	U		0.128	0.500	1	09/05/2018 16:43	WG1161708
Chloroethane	U		0.141	2.50	1	09/05/2018 16:43	WG1161708
Chloroform	U		0.0860	0.500	1	09/05/2018 16:43	WG1161708
Chloromethane	U		0.153	1.25	1	09/05/2018 16:43	WG1161708
2-Chlorotoluene	U		0.111	0.500	1	09/05/2018 16:43	WG1161708
4-Chlorotoluene	U		0.0972	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/05/2018 16:43	WG1161708
1,2-Dibromoethane	U		0.193	0.500	1	09/05/2018 16:43	WG1161708
Dibromomethane	U		0.117	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichlorobenzene	U		0.101	0.500	1	09/05/2018 16:43	WG1161708
1,3-Dichlorobenzene	U		0.130	0.500	1	09/05/2018 16:43	WG1161708
1,4-Dichlorobenzene	U		0.121	0.500	1	09/05/2018 16:43	WG1161708
Dichlorodifluoromethane	U		0.127	2.50	1	09/05/2018 16:43	WG1161708
1,1-Dichloroethane	U		0.114	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichloroethane	U		0.108	0.500	1	09/05/2018 16:43	WG1161708
1,1-Dichloroethene	U		0.188	0.500	1	09/05/2018 16:43	WG1161708
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/06/2018 02:34	WG1162010
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichloropropane	U		0.190	0.500	1	09/05/2018 16:43	WG1161708
1,1-Dichloropropene	U		0.128	0.500	1	09/05/2018 16:43	WG1161708
1,3-Dichloropropane	U		0.147	1.00	1	09/05/2018 16:43	WG1161708
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/05/2018 16:43	WG1161708
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/05/2018 16:43	WG1161708
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/05/2018 16:43	WG1161708
2,2-Dichloropropane	U		0.0929	0.500	1	09/05/2018 16:43	WG1161708
Di-isopropyl ether	U		0.0924	0.500	1	09/05/2018 16:43	WG1161708
Ethylbenzene	U		0.158	0.500	1	09/05/2018 16:43	WG1161708
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/05/2018 16:43	WG1161708
2-Hexanone	U		0.757	5.00	1	09/05/2018 16:43	WG1161708
n-Hexane	U		0.305	5.00	1	09/05/2018 16:43	WG1161708
Iodomethane	U		0.377	10.0	1	09/06/2018 02:34	WG1162010
Isopropylbenzene	U		0.126	0.500	1	09/05/2018 16:43	WG1161708
p-Isopropyltoluene	U		0.138	0.500	1	09/05/2018 16:43	WG1161708
2-Butanone (MEK)	U		1.28	5.00	1	09/05/2018 16:43	WG1161708
Methylene Chloride	U		1.07	2.50	1	09/05/2018 16:43	WG1161708
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/05/2018 16:43	WG1161708
Methyl tert-butyl ether	U		0.102	0.500	1	09/05/2018 16:43	WG1161708
Naphthalene	U		0.174	2.50	1	09/05/2018 16:43	WG1161708
n-Propylbenzene	U		0.162	0.500	1	09/05/2018 16:43	WG1161708
Styrene	U		0.117	0.500	1	09/05/2018 16:43	WG1161708
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/05/2018 16:43	WG1161708
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/05/2018 16:43	WG1161708

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 08/31/18 00:00

L1022679

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Tetrachloroethene	U		0.199	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Toluene	U		0.412	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Trichloroethene	U		0.153	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Trichlorofluoromethane	U		0.130	2.50	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Vinyl acetate	U		0.645	5.00	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Vinyl chloride	U		0.118	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Xylenes, Total	U		0.316	1.50	1	09/05/2018 16:43	<a href="#">WG1161708</a>
(S) Toluene-d8	102			80.0-120		09/05/2018 16:43	<a href="#">WG1161708</a>
(S) Toluene-d8	102			80.0-120		09/06/2018 02:34	<a href="#">WG1162010</a>
(S) Dibromofluoromethane	96.4			75.0-120		09/05/2018 16:43	<a href="#">WG1161708</a>
(S) Dibromofluoromethane	105			75.0-120		09/06/2018 02:34	<a href="#">WG1162010</a>
(S) 4-Bromofluorobenzene	108			77.0-126		09/05/2018 16:43	<a href="#">WG1161708</a>
(S) 4-Bromofluorobenzene	99.9			77.0-126		09/06/2018 02:34	<a href="#">WG1162010</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Method Blank (MB)

(MB) R3340801-1 09/10/18 13:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1022683-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1022683-01 09/10/18 13:20 • (DUP) R3340801-3 09/10/18 13:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	82.1	82.5	1	0.445		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3340801-2 09/10/18 13:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3339403-4 09/05/18 12:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3339403-4 09/05/18 12:41

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	0.680	U	0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	0.183	U	0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	88.4			75.0-120
(S) 4-Bromofluorobenzene	108			77.0-126

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3339403-1 09/05/18 11:21 • (LCSD) R3339403-2 09/05/18 11:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	110	116	87.9	92.4	19.0-160			4.98	27
Acrylonitrile	125	129	134	104	107	55.0-149			3.50	20
Benzene	25.0	23.6	24.1	94.5	96.3	70.0-123			1.87	20
Bromobenzene	25.0	27.5	28.4	110	114	73.0-121			3.27	20
Bromodichloromethane	25.0	24.1	24.8	96.4	99.2	75.0-120			2.95	20
Bromochloromethane	25.0	23.8	24.2	95.1	96.9	76.0-122			1.81	20
Bromoform	25.0	27.1	28.9	108	116	68.0-132			6.43	20
Bromomethane	25.0	15.6	16.3	62.4	65.2	10.0-160			4.40	25
n-Butylbenzene	25.0	24.3	25.6	97.1	102	73.0-125			5.16	20
sec-Butylbenzene	25.0	26.6	27.8	106	111	75.0-125			4.23	20
tert-Butylbenzene	25.0	27.5	29.0	110	116	76.0-124			5.34	20
Carbon disulfide	25.0	22.7	22.7	90.6	90.9	61.0-128			0.307	20
Carbon tetrachloride	25.0	20.8	21.4	83.3	85.4	68.0-126			2.57	20
Chlorobenzene	25.0	25.3	25.9	101	103	80.0-121			2.27	20
Chlorodibromomethane	25.0	24.3	25.1	97.2	100	77.0-125			3.24	20
Chloroethane	25.0	21.8	21.8	87.1	87.2	47.0-150			0.165	20
Chloroform	25.0	23.4	23.1	93.5	92.5	73.0-120			1.05	20
Chloromethane	25.0	21.3	21.9	85.3	87.7	41.0-142			2.83	20
2-Chlorotoluene	25.0	27.6	28.5	110	114	76.0-123			3.11	20
4-Chlorotoluene	25.0	27.7	28.8	111	115	75.0-122			3.93	20
1,2-Dibromo-3-Chloropropane	25.0	22.4	25.0	89.5	99.9	58.0-134			10.9	20
1,2-Dibromoethane	25.0	24.5	25.4	98.0	102	80.0-122			3.77	20
Dibromomethane	25.0	24.5	24.8	97.9	99.3	80.0-120			1.45	20
1,2-Dichlorobenzene	25.0	23.0	24.4	92.0	97.7	79.0-121			5.96	20
1,3-Dichlorobenzene	25.0	24.6	25.8	98.4	103	79.0-120			4.93	20
1,4-Dichlorobenzene	25.0	24.2	24.9	96.8	99.4	79.0-120			2.71	20
Dichlorodifluoromethane	25.0	21.2	21.6	84.9	86.4	51.0-149			1.81	20
1,1-Dichloroethane	25.0	23.5	23.6	93.9	94.3	70.0-126			0.362	20
1,2-Dichloroethane	25.0	21.7	21.7	86.7	86.7	70.0-128			0.0227	20
1,1-Dichloroethene	25.0	23.5	24.0	93.9	95.8	71.0-124			2.07	20
trans-1,2-Dichloroethene	25.0	24.4	24.8	97.7	99.2	73.0-120			1.49	20
1,2-Dichloropropane	25.0	26.4	26.3	106	105	77.0-125			0.254	20
1,1-Dichloropropene	25.0	23.5	23.6	94.0	94.4	74.0-126			0.377	20
1,3-Dichloropropane	25.0	24.4	25.7	97.8	103	80.0-120			5.18	20
cis-1,3-Dichloropropene	25.0	25.5	26.7	102	107	80.0-123			4.33	20
trans-1,3-Dichloropropene	25.0	24.6	25.8	98.5	103	78.0-124			4.49	20
trans-1,4-Dichloro-2-butene	25.0	26.7	29.1	107	117	33.0-144			8.72	20
2,2-Dichloropropane	25.0	22.4	22.3	89.6	89.3	58.0-130			0.326	20
Di-isopropyl ether	25.0	25.1	25.7	101	103	58.0-138			2.18	20
Ethylbenzene	25.0	25.4	26.7	101	107	79.0-123			5.21	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3339403-1 09/05/18 11:21 • (LCSD) R3339403-2 09/05/18 11:41

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	25.0	24.3	26.2	97.3	105	54.0-138			7.28	20
2-Hexanone	125	142	154	114	123	67.0-149			7.66	20
n-Hexane	25.0	24.2	23.8	97.0	95.2	57.0-133			1.80	20
Isopropylbenzene	25.0	27.9	29.0	112	116	76.0-127			4.03	20
p-Isopropyltoluene	25.0	25.8	26.5	103	106	76.0-125			2.57	20
2-Butanone (MEK)	125	127	132	102	106	44.0-160			3.81	20
Methylene Chloride	25.0	21.9	22.7	87.5	90.8	67.0-120			3.72	20
4-Methyl-2-pentanone (MIBK)	125	133	142	107	114	68.0-142			6.69	20
Methyl tert-butyl ether	25.0	23.0	23.5	91.8	94.0	68.0-125			2.36	20
Naphthalene	25.0	21.2	23.7	85.0	95.0	54.0-135			11.1	20
n-Propylbenzene	25.0	27.7	29.0	111	116	77.0-124			4.74	20
Styrene	25.0	29.1	30.7	116	123	73.0-130			5.67	20
1,1,1,2-Tetrachloroethane	25.0	23.2	23.9	92.7	95.5	75.0-125			2.98	20
1,1,2,2-Tetrachloroethane	25.0	28.7	29.6	115	119	65.0-130			3.39	20
1,1,2-Trichlorotrifluoroethane	25.0	22.9	23.0	91.7	91.9	69.0-132			0.238	20
Tetrachloroethene	25.0	25.0	25.8	99.8	103	72.0-132			3.46	20
Toluene	25.0	24.2	24.9	96.6	99.7	79.0-120			3.11	20
1,2,3-Trichlorobenzene	25.0	22.4	24.7	89.5	98.7	50.0-138			9.77	20
1,2,4-Trichlorobenzene	25.0	22.9	24.7	91.6	98.6	57.0-137			7.43	20
1,1,1-Trichloroethane	25.0	22.3	22.5	89.2	90.2	73.0-124			1.07	20
1,1,2-Trichloroethane	25.0	25.1	25.5	100	102	80.0-120			1.44	20
Trichloroethene	25.0	24.9	25.2	99.7	101	78.0-124			1.25	20
Trichlorofluoromethane	25.0	19.6	21.1	78.4	84.5	59.0-147			7.55	20
1,2,3-Trichloropropane	25.0	25.9	28.5	103	114	73.0-130			9.57	20
1,2,4-Trimethylbenzene	25.0	27.9	29.2	111	117	76.0-121			4.67	20
1,2,3-Trimethylbenzene	25.0	24.4	25.4	97.5	102	77.0-120			4.04	20
1,3,5-Trimethylbenzene	25.0	28.1	29.2	113	117	76.0-122			3.64	20
Vinyl acetate	125	121	119	97.1	95.1	11.0-160			2.02	20
Vinyl chloride	25.0	22.5	22.3	89.8	89.0	67.0-131			0.887	20
Xylenes, Total	75.0	77.2	79.3	103	106	79.0-123			2.68	20
(S) Toluene-d8				100	102	80.0-120				
(S) Dibromofluoromethane				89.6	89.1	75.0-120				
(S) 4-Bromofluorobenzene				108	110	77.0-126				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3339694-3 09/06/18 01:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Iodomethane	U		0.377	10.0
(S) Toluene-d8	102			80.0-120
(S) Dibromofluoromethane	102			75.0-120
(S) 4-Bromofluorobenzene	101			77.0-126

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3339694-1 09/06/18 00:35 • (LCSD) R3339694-2 09/06/18 00:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	25.0	24.1	23.5	96.4	93.8	73.0-120			2.75	20
Iodomethane	125	125	119	100	95.0	33.0-147			5.17	26
(S) Toluene-d8				101	97.4	80.0-120				
(S) Dibromofluoromethane				103	101	75.0-120				
(S) 4-Bromofluorobenzene				101	101	77.0-126				

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3340631-3 09/10/18 10:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3340631-3 09/10/18 10:50

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
(S) Toluene-d8	107			75.0-131
(S) Dibromofluoromethane	99.4			65.0-129
(S) 4-Bromofluorobenzene	87.8			67.0-138

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3340631-1 09/10/18 09:01 • (LCSD) R3340631-2 09/10/18 09:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.778	0.717	125	115	10.0-160			8.28	31
Acrylonitrile	0.625	0.655	0.626	105	100	45.0-153			4.49	22



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3340631-1 09/10/18 09:01 • (LCSD) R3340631-2 09/10/18 09:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.125	0.107	0.107	85.9	85.9	70.0-123			0.0391	20
Bromobenzene	0.125	0.125	0.117	99.8	93.5	73.0-121			6.47	20
Bromodichloromethane	0.125	0.150	0.158	120	126	73.0-121		J4	5.03	20
Bromochloromethane	0.125	0.114	0.111	90.9	88.9	77.0-128			2.22	20
Bromoform	0.125	0.146	0.136	117	109	64.0-132			6.91	20
Bromomethane	0.125	0.124	0.121	99.3	97.0	56.0-147			2.27	20
n-Butylbenzene	0.125	0.124	0.127	98.9	102	68.0-135			2.94	20
sec-Butylbenzene	0.125	0.109	0.115	87.6	92.3	74.0-130			5.29	20
tert-Butylbenzene	0.125	0.114	0.116	91.2	92.9	75.0-127			1.85	20
Carbon disulfide	0.125	0.108	0.108	86.2	86.7	56.0-133			0.544	20
Carbon tetrachloride	0.125	0.167	0.158	133	127	66.0-128	J4		5.19	20
Chlorobenzene	0.125	0.133	0.145	106	116	76.0-128			8.45	20
Chlorodibromomethane	0.125	0.147	0.152	117	122	74.0-127			3.68	20
Chloroethane	0.125	0.138	0.133	110	106	61.0-134			3.51	20
Chloroform	0.125	0.128	0.126	103	100	72.0-123			2.22	20
Chloromethane	0.125	0.137	0.138	109	110	51.0-138			0.984	20
2-Chlorotoluene	0.125	0.112	0.106	89.6	85.0	75.0-124			5.19	20
4-Chlorotoluene	0.125	0.123	0.114	98.8	91.5	75.0-124			7.60	20
1,2-Dibromo-3-Chloropropane	0.125	0.148	0.143	118	115	59.0-130			3.02	20
1,2-Dibromoethane	0.125	0.120	0.125	95.6	99.6	74.0-128			4.09	20
Dibromomethane	0.125	0.144	0.138	115	111	75.0-122			3.99	20
1,2-Dichlorobenzene	0.125	0.128	0.129	102	103	76.0-124			0.638	20
1,3-Dichlorobenzene	0.125	0.121	0.119	96.4	95.6	76.0-125			0.894	20
1,4-Dichlorobenzene	0.125	0.115	0.115	92.3	92.4	77.0-121			0.0338	20
trans-1,4-Dichloro-2-butene	0.125	0.140	0.136	112	109	45.0-143			2.77	20
Dichlorodifluoromethane	0.125	0.143	0.139	114	111	43.0-156			2.79	20
1,1-Dichloroethane	0.125	0.125	0.129	99.9	103	70.0-127			3.14	20
1,2-Dichloroethane	0.125	0.138	0.132	110	105	65.0-131			4.53	20
1,1-Dichloroethene	0.125	0.127	0.130	102	104	65.0-131			2.37	20
cis-1,2-Dichloroethene	0.125	0.112	0.107	89.4	85.3	73.0-125			4.65	20
trans-1,2-Dichloroethene	0.125	0.106	0.103	84.7	82.7	71.0-125			2.45	20
1,1-Dichloropropene	0.125	0.120	0.120	95.6	96.1	73.0-125			0.503	20
1,3-Dichloropropane	0.125	0.128	0.135	103	108	80.0-125			5.40	20
cis-1,3-Dichloropropene	0.125	0.123	0.132	98.0	106	76.0-127			7.35	20
trans-1,3-Dichloropropene	0.125	0.125	0.147	99.6	118	73.0-127			16.7	20
2,2-Dichloropropane	0.125	0.138	0.152	111	122	59.0-135			9.34	20
Di-isopropyl ether	0.125	0.127	0.125	101	99.7	60.0-136			1.70	20
Ethylbenzene	0.125	0.129	0.141	103	113	74.0-126			9.01	20
Hexachloro-1,3-butadiene	0.125	0.155	0.183	124	146	57.0-150			16.3	20
2-Hexanone	0.625	0.736	0.784	118	125	54.0-147			6.33	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3340631-1 09/10/18 09:01 • (LCSD) R3340631-2 09/10/18 09:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	0.125	0.121	0.111	97.1	88.6	55.0-137			9.13	20
Iodomethane	0.625	0.678	0.673	109	108	74.0-134			0.822	20
Isopropylbenzene	0.125	0.118	0.117	94.2	93.7	72.0-127			0.548	20
p-Isopropyltoluene	0.125	0.115	0.119	92.3	94.9	72.0-133			2.75	20
2-Butanone (MEK)	0.625	0.730	0.606	117	96.9	30.0-160			18.6	24
Methylene Chloride	0.125	0.112	0.103	89.8	82.4	68.0-123			8.60	20
4-Methyl-2-pentanone (MIBK)	0.625	0.800	0.843	128	135	56.0-143			5.22	20
Methyl tert-butyl ether	0.125	0.122	0.116	97.8	93.1	66.0-132			4.98	20
Naphthalene	0.125	0.118	0.126	94.1	101	59.0-130			7.12	20
n-Propylbenzene	0.125	0.108	0.110	86.6	88.3	74.0-126			1.93	20
Styrene	0.125	0.111	0.115	88.4	92.0	72.0-127			3.95	20
1,1,1,2-Tetrachloroethane	0.125	0.144	0.156	115	125	74.0-129			7.83	20
1,1,2,2-Tetrachloroethane	0.125	0.104	0.102	82.9	81.8	68.0-128			1.34	20
Toluene	0.125	0.123	0.130	98.8	104	75.0-121			5.02	20
1,1,2-Trichlorotrifluoroethane	0.125	0.103	0.101	82.3	81.0	61.0-139			1.68	20
1,2,3-Trichlorobenzene	0.125	0.130	0.145	104	116	59.0-139			11.1	20
1,2,4-Trichlorobenzene	0.125	0.130	0.136	104	109	62.0-137			4.09	20
1,1,1-Trichloroethane	0.125	0.140	0.138	112	110	69.0-126			1.67	20
1,1,2-Trichloroethane	0.125	0.114	0.126	91.3	101	78.0-123			10.1	20
Trichlorofluoromethane	0.125	0.139	0.133	111	107	61.0-142			3.98	20
1,2,3-Trichloropropane	0.125	0.128	0.137	103	110	67.0-129			6.76	20
1,2,3-Trimethylbenzene	0.125	0.119	0.114	95.4	90.8	74.0-124			4.85	20
1,2,4-Trimethylbenzene	0.125	0.126	0.122	101	98.0	70.0-126			2.84	20
1,3,5-Trimethylbenzene	0.125	0.118	0.118	94.2	94.0	73.0-127			0.172	20
Vinyl acetate	0.625	0.663	0.520	106	83.2	43.0-159		<u>J3</u>	24.1	20
Vinyl chloride	0.125	0.136	0.138	109	110	63.0-134			1.37	20
(S) Toluene-d8				103	109	75.0-131				
(S) Dibromofluoromethane				97.6	94.0	65.0-129				
(S) 4-Bromofluorobenzene				92.4	90.0	67.0-138				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3340720-2 09/10/18 14:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
1,2-Dichloropropane	U		0.00127	0.00500
Tetrachloroethene	U		0.000700	0.00250
Trichloroethene	U		0.000400	0.00100
Xylenes, Total	U		0.00478	0.00650
<i>(S) Toluene-d8</i>	107			75.0-131
<i>(S) Dibromofluoromethane</i>	91.2			65.0-129
<i>(S) 4-Bromofluorobenzene</i>	90.1			67.0-138

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

Laboratory Control Sample (LCS)

(LCS) R3340720-1 09/10/18 13:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
1,2-Dichloropropane	0.125	0.120	96.4	74.0-125	
Tetrachloroethene	0.125	0.131	105	70.0-136	
Trichloroethene	0.125	0.114	91.1	76.0-126	
Xylenes, Total	0.375	0.338	90.1	72.0-127	
<i>(S) Toluene-d8</i>			99.2	75.0-131	
<i>(S) Dibromofluoromethane</i>			110	65.0-129	
<i>(S) 4-Bromofluorobenzene</i>			103	67.0-138	

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

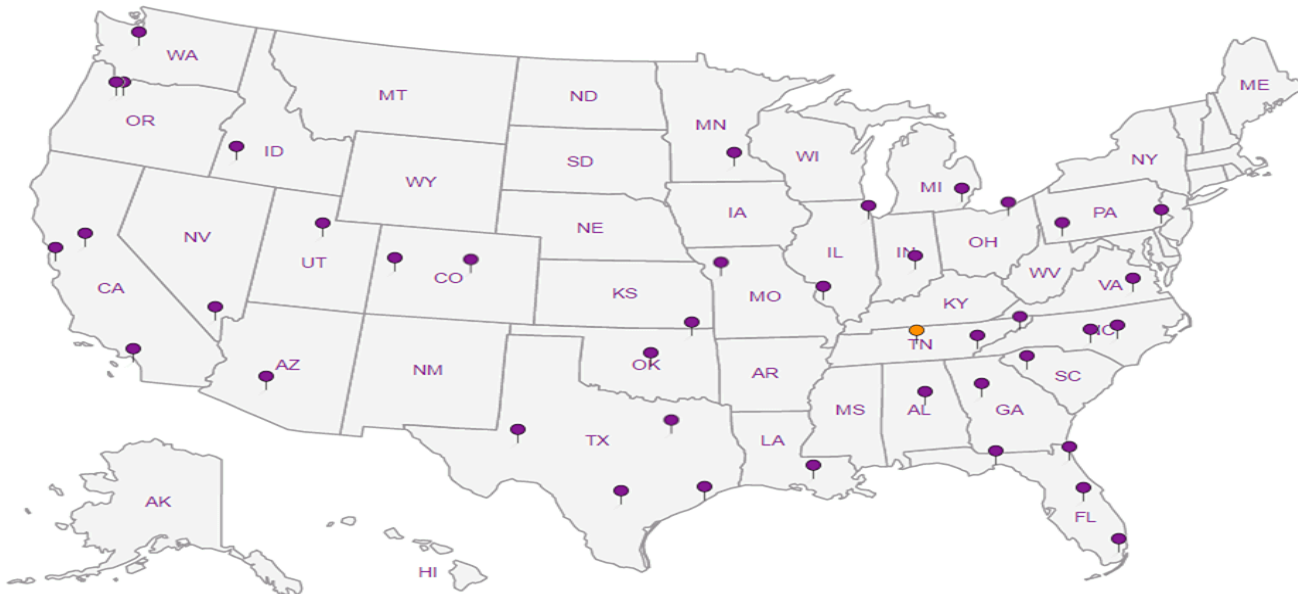
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres.  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: bneal@pesenv.com;  
bhaldeman@pesenv.com

Project  
Description: **American Linen**

City/State Collected: **SEATTLE, WA**

Phone: **206-529-3980**  
Fax: **206-529-3985**

Client Project #  
**1413.001.05.304**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**Ben Hecht**

Site/Facility ID #  
**1413.001.05.304**

P.O. #

Collected by (signature):  
*[Signature]*

**Rush?** (Lab MUST Be Notified)

Same Day \_\_\_ Five Day \_\_\_  
Next Day \_\_\_ 5 Day (Rad Only) \_\_\_  
Two Day \_\_\_ 10 Day (Rad Only) \_\_\_  
Three Day \_\_\_

Quote #

Date Results Needed

Immediately  
Packed on Ice N \_\_\_ Y **X**

No.  
of  
Cntrs

VOCs V8260C 40ml/Amb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip blk V8260LLC 40ml/Amb-HCl-Blk

L# **L1022679**  
**B175**

Acctnum: **PESENVSWA**  
Template: **T139825**  
Prelogin: **P668288**  
TSR: **110 - Brian Ford**

PB:  
Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative										Remarks	Sample # (lab only)
<del>1W-53A-25</del>	<del>G</del>	<del>SS</del>	<del>25</del>	<del>8/29/18</del>	<del>1405</del>	<del>2</del>	<del>X</del>										<del>HOLD</del>	
<del>1W-53A-41</del>	<del>G</del>	<del>SS</del>	<del>41</del>	<del>8/29/18</del>	<del>1510</del>	<del>2</del>	<del>X</del>										<del>HOLD</del>	
<del>1W-22C-25</del>	<del>G</del>	<del>SS</del>	<del>25</del>	<del>8/30/18</del>	<del>1405</del>	<del>2</del>	<del>X</del>										<del>HOLD</del>	
<del>1W-22C-56</del>	<del>G</del>	<del>SS</del>	<del>56</del>	<del>8/30/18</del>	<del>1720</del>	<del>2</del>	<del>X</del>										<del>HOLD</del>	
<del>1W-22C-62</del>	<del>G</del>	<del>SS</del>	<del>62</del>	<del>8/31/18</del>	<del>0935</del>	<del>2</del>	<del>X</del>											-01
<del>1W-22C-70</del>	<del>G</del>	<del>SS</del>	<del>70</del>	<del>8/31/18</del>	<del>1035</del>	<del>2</del>	<del>X</del>										<del>HOLD</del>	
<del>1W-22C-78</del>	<del>G</del>	<del>SS</del>	<del>78</del>	<del>8/31/18</del>	<del>1300</del>	<del>2</del>	<del>X</del>											-01
<del>TRIP BLANK</del>	<del>---</del>	<del>W-SS</del>	<del>---</del>	<del>---</del>	<del>---</del>	<del>1</del>	<del>X</del>											-03
		SS																
		SS																

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

**RAD SCREEN: <0.5 mR/hr**

pH \_\_\_ Temp \_\_\_

Flow \_\_\_ Other \_\_\_

Samples returned via:  
UPS \_\_\_ FedEx \_\_\_ Courier \_\_\_

Tracking # **4510 1654 1921**

Sample Receipt Checklist  
COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by: (Signature) *[Signature]* 2  
Date: **8/31/18** Time: **15:40**

Received by: (Signature) \_\_\_\_\_  
Trip Blank Received:  Yes  No  
HCl/MeOH TBR

Relinquished by: (Signature) \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_  
Temp: **1.2** °C Bottles Received: **8**

Relinquished by: (Signature) \_\_\_\_\_  
Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature) *[Signature]*  
Date: **9/1/18** Time: **0845**

If preservation required by Login: Date/Time  
**09-0007** Condition: **NCF / 09**



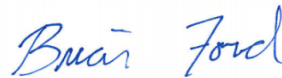
September 17, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1024338  
Samples Received: 09/08/2018  
Project Number: 1413.001.05.304  
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b><sup>1</sup>Cp</b>
<b>Tc: Table of Contents</b>	<b>2</b>	<b><sup>2</sup>Tc</b>
<b>Ss: Sample Summary</b>	<b>3</b>	<b><sup>3</sup>Ss</b>
<b>Cn: Case Narrative</b>	<b>5</b>	<b><sup>4</sup>Cn</b>
<b>Sr: Sample Results</b>	<b>6</b>	<b><sup>5</sup>Sr</b>
IW-23C-42 L1024338-01	<b>6</b>	<b><sup>6</sup>Qc</b>
IW-54B-8 L1024338-02	<b>8</b>	<b><sup>7</sup>Gl</b>
IW-54B-13 L1024338-03	<b>10</b>	<b><sup>8</sup>Al</b>
IW-54B-21 L1024338-04	<b>12</b>	<b><sup>9</sup>Sc</b>
IW-54B-33 L1024338-05	<b>14</b>	
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<b>Qc: Quality Control Summary</b>	<b>22</b>	
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<b>Al: Accreditations &amp; Locations</b>	<b>42</b>	
<b>Sc: Sample Chain of Custody</b>	<b>43</b>	

# SAMPLE SUMMARY



## IW-23C-42 L1024338-01 Solid

Collected by  
S. McKernan  
Collected date/time  
09/04/18 16:30  
Received date/time  
09/08/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1165172	1	09/13/18 12:09	09/13/18 12:19	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1164600	1	09/04/18 16:30	09/12/18 04:30	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1165154	400	09/04/18 16:30	09/13/18 03:50	JAH

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## IW-54B-8 L1024338-02 Solid

Collected by  
S. McKernan  
Collected date/time  
09/05/18 17:00  
Received date/time  
09/08/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1165172	1	09/13/18 12:09	09/13/18 12:19	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1164600	1	09/05/18 17:00	09/12/18 04:49	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1165154	2000	09/05/18 17:00	09/13/18 04:10	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1165578	20000	09/05/18 17:00	09/13/18 16:17	BMB

## IW-54B-13 L1024338-03 Solid

Collected by  
S. McKernan  
Collected date/time  
09/06/18 08:55  
Received date/time  
09/08/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1165172	1	09/13/18 12:09	09/13/18 12:19	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1164600	1	09/06/18 08:55	09/12/18 05:08	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1165578	10	09/06/18 08:55	09/13/18 15:59	BMB

## IW-54B-21 L1024338-04 Solid

Collected by  
S. McKernan  
Collected date/time  
09/06/18 09:00  
Received date/time  
09/08/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1165176	1	09/13/18 11:41	09/13/18 11:53	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1164600	1	09/06/18 09:00	09/12/18 05:27	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1165154	20	09/06/18 09:00	09/13/18 04:50	JAH

## IW-54B-33 L1024338-05 Solid

Collected by  
S. McKernan  
Collected date/time  
09/06/18 10:15  
Received date/time  
09/08/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1165176	1	09/13/18 11:41	09/13/18 11:53	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1164600	1.06	09/06/18 10:15	09/12/18 05:46	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1165154	1.05	09/06/18 10:15	09/13/18 03:30	JAH

## IW-24C-48 L1024338-06 Solid

Collected by  
S. McKernan  
Collected date/time  
09/07/18 13:40  
Received date/time  
09/08/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1165176	1	09/13/18 11:41	09/13/18 11:53	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1164600	1	09/07/18 13:40	09/12/18 06:05	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1165154	10	09/07/18 13:40	09/13/18 05:09	JAH

# SAMPLE SUMMARY



## IW-24C-55 L1024338-07 Solid

Collected by: S. McKernan  
 Collected date/time: 09/07/18 14:20  
 Received date/time: 09/08/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1165176	1	09/13/18 11:41	09/13/18 11:53	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1166945	1.04	09/07/18 14:20	09/17/18 13:33	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1167356	104	09/07/18 14:20	09/17/18 15:38	DWR

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## TRIP BLANK L1024338-08 GW

Collected by: S. McKernan  
 Collected date/time: 09/06/18 00:00  
 Received date/time: 09/08/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1164809	1	09/13/18 01:50	09/13/18 01:50	ACG

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.5		1	09/13/2018 12:19	<a href="#">WG1165172</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0193	J	0.0164	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00227	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Benzene	U		0.000479	0.00120	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromobenzene	U		0.00126	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000943	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00135	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromoform	U		0.00716	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromomethane	U		0.00443	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
n-Butylbenzene	0.00802	J	0.00460	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
sec-Butylbenzene	0.00399	J	0.00303	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
tert-Butylbenzene	0.00248	J	0.00186	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00486	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00129	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000686	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000539	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chloroethane	U		0.00129	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chloroform	U		0.000497	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chloromethane	U		0.00166	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00110	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00135	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000628	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Dibromomethane	U		0.00120	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00174	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00203	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00236	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.000979	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000688	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000569	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1-Dichloroethene	0.0116		0.000598	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	8.86		0.330	1.20	400	09/13/2018 03:50	<a href="#">WG1165154</a>
trans-1,2-Dichloroethene	0.0116	JO	0.00171	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		0.608	2.39	400	09/13/2018 03:50	<a href="#">WG1165154</a>
1,1-Dichloropropene	U		0.000838	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00209	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000812	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00183	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00168	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000949	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000419	0.00120	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Ethylbenzene	0.00266	J	0.000634	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
2-Hexanone	U		0.0120	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
n-Hexane	U	JO	0.00127	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Iodomethane	U		0.00724	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Isopropylbenzene	0.00186	J	0.00103	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
p-Isopropyltoluene	0.00450	J	0.00279	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
2-Butanone (MEK)	U		0.0150	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00795	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Naphthalene	0.0229		0.00373	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
n-Propylbenzene	0.00809		0.00141	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Styrene	U		0.00327	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000467	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.323	1.20	400	09/13/2018 03:50	<a href="#">WG1165154</a>
Tetrachloroethene	308		0.335	1.20	400	09/13/2018 03:50	<a href="#">WG1165154</a>
Toluene	0.00716		0.00150	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000748	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000329	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.00106	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Trichloroethene	0.929		0.192	0.479	400	09/13/2018 03:50	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000598	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00610	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	0.0811		0.00139	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	0.0380		0.00138	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	0.0240		0.00129	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Vinyl acetate	U	<u>JO</u>	0.00421	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Vinyl chloride	0.532		0.000818	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Xylenes, Total	U		2.29	3.11	400	09/13/2018 03:50	<a href="#">WG1165154</a>
(S) Toluene-d8	105			75.0-131		09/12/2018 04:30	<a href="#">WG1164600</a>
(S) Toluene-d8	98.6			75.0-131		09/13/2018 03:50	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	90.9			65.0-129		09/12/2018 04:30	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	106			65.0-129		09/13/2018 03:50	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/12/2018 04:30	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	96.7			67.0-138		09/13/2018 03:50	<a href="#">WG1165154</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-01 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-01 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.





Collected date/time: 09/05/18 17:00

L1024338

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	09/13/2018 12:19	<a href="#">WG1165172</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00207	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Benzene	U		0.000436	0.00109	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Bromobenzene	U		0.00115	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000860	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00123	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Bromoform	U		0.00652	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Bromomethane	U		0.00404	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
n-Butylbenzene	U		0.00419	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
sec-Butylbenzene	U		0.00276	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
tert-Butylbenzene	U		0.00169	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00443	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00118	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000625	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000491	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Chloroethane	U		0.00118	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Chloroform	U		0.000453	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Chloromethane	U		0.00152	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00100	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00123	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000573	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Dibromomethane	U		0.00109	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00158	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00185	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00215	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.000892	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000627	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000518	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1-Dichloroethene	U		0.000545	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	U		1.51	5.45	2000	09/13/2018 04:10	<a href="#">WG1165154</a>
trans-1,2-Dichloroethene	U	<u>JO</u>	0.00156	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		2.77	10.9	2000	09/13/2018 04:10	<a href="#">WG1165154</a>
1,1-Dichloropropene	U		0.000764	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00191	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00167	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000865	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000382	0.00109	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Ethylbenzene	0.00226	<u>J</u>	0.000578	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
2-Hexanone	U		0.0109	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
n-Hexane	U	<u>JO</u>	0.00116	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Iodomethane	U		0.00660	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Isopropylbenzene	0.000956	<u>J</u>	0.000941	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00254	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
2-Butanone (MEK)	0.0224	<u>J</u>	0.0136	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00724	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/05/18 17:00

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Naphthalene	U		0.00340	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
n-Propylbenzene	0.00358	J	0.00129	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Styrene	U		0.00298	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000545	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000425	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		1.47	5.45	2000	09/13/2018 04:10	<a href="#">WG1165154</a>
Tetrachloroethene	937		15.3	54.5	20000	09/13/2018 16:17	<a href="#">WG1165578</a>
Toluene	0.00476	J	0.00136	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000300	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.000963	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Trichloroethene	0.922	J	0.873	2.18	2000	09/13/2018 04:10	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000545	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00556	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	0.00891		0.00127	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00125	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	0.00290	J	0.00118	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Vinyl acetate	U	JO	0.00384	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Vinyl chloride	0.00293		0.000745	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Xylenes, Total	U		10.4	14.2	2000	09/13/2018 04:10	<a href="#">WG1165154</a>
(S) Toluene-d8	124			75.0-131		09/12/2018 04:49	<a href="#">WG1164600</a>
(S) Toluene-d8	99.3			75.0-131		09/13/2018 04:10	<a href="#">WG1165154</a>
(S) Toluene-d8	99.7			75.0-131		09/13/2018 16:17	<a href="#">WG1165578</a>
(S) Dibromofluoromethane	90.0			65.0-129		09/12/2018 04:49	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	107			65.0-129		09/13/2018 04:10	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	105			65.0-129		09/13/2018 16:17	<a href="#">WG1165578</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		09/12/2018 04:49	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/13/2018 04:10	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/13/2018 16:17	<a href="#">WG1165578</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1024338-02 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-02 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Collected date/time: 09/06/18 08:55

L1024338

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	09/13/2018 12:19	<a href="#">WG1165172</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0186	J	0.0152	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00211	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Benzene	U		0.000444	0.00111	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromobenzene	U		0.00116	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000874	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00125	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromoform	U		0.00663	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromomethane	U		0.00410	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
n-Butylbenzene	U		0.00426	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
sec-Butylbenzene	U		0.00281	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
tert-Butylbenzene	U		0.00172	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00450	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00120	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000636	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000499	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chloroethane	U		0.00120	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chloroform	U		0.000460	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chloromethane	U		0.00154	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00102	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00125	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000582	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Dibromomethane	U		0.00111	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00161	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00189	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00219	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.000907	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000638	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000527	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1-Dichloroethene	U		0.000555	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	0.0349		0.00765	0.0277	10	09/13/2018 15:59	<a href="#">WG1165578</a>
trans-1,2-Dichloroethene	U	JO	0.00159	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		0.0141	0.0555	10	09/13/2018 15:59	<a href="#">WG1165578</a>
1,1-Dichloropropene	U		0.000776	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00194	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000880	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000388	0.00111	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Ethylbenzene	U		0.000588	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
2-Hexanone	U		0.0111	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
n-Hexane	U	JO	0.00118	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Iodomethane	U		0.00671	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Isopropylbenzene	U		0.000957	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00258	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
2-Butanone (MEK)	U		0.0139	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00737	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/06/18 08:55

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.0011	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Naphthalene	U		0.00346	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
n-Propylbenzene	U		0.00131	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Styrene	U		0.00303	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.00749	0.0277	10	09/13/2018 15:59	<a href="#">WG1165578</a>
Tetrachloroethene	2.21		0.00776	0.0277	10	09/13/2018 15:59	<a href="#">WG1165578</a>
Toluene	U		0.00139	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000305	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.000979	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Trichloroethene	0.0456		0.00444	0.0111	10	09/13/2018 15:59	<a href="#">WG1165578</a>
Trichlorofluoromethane	U		0.000555	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00566	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Vinyl acetate	U	<u>JO</u>	0.00390	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Vinyl chloride	U		0.000758	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Xylenes, Total	U		0.0530	0.0721	10	09/13/2018 15:59	<a href="#">WG1165578</a>
(S) Toluene-d8	108			75.0-131		09/12/2018 05:08	<a href="#">WG1164600</a>
(S) Toluene-d8	101			75.0-131		09/13/2018 15:59	<a href="#">WG1165578</a>
(S) Dibromofluoromethane	91.7			65.0-129		09/12/2018 05:08	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	110			65.0-129		09/13/2018 15:59	<a href="#">WG1165578</a>
(S) 4-Bromofluorobenzene	98.6			67.0-138		09/12/2018 05:08	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/13/2018 15:59	<a href="#">WG1165578</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-03 WG1164600, WG1165578: Not all analytes reportable at lower dilution.

L1024338-03 WG1164600, WG1165578: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	09/13/2018 11:53	<a href="#">WG1165176</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0149	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00207	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Benzene	U		0.000436	0.00109	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Bromobenzene	U		0.00115	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000860	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00123	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Bromoform	U		0.00652	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Bromomethane	U		0.00404	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
n-Butylbenzene	U		0.00419	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
sec-Butylbenzene	U		0.00276	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
tert-Butylbenzene	U		0.00169	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00443	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00118	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000625	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000491	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Chloroethane	U		0.00118	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Chloroform	U		0.000453	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Chloromethane	U		0.00152	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00100	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00123	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000573	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Dibromomethane	U		0.00109	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00158	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00185	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00215	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.000893	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000627	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000518	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1-Dichloroethene	0.00669		0.000546	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	1.90		0.000753	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
trans-1,2-Dichloroethene	0.00612	<u>JO</u>	0.00156	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2-Dichloropropane	1.13		0.0277	0.109	20	09/13/2018 04:50	<a href="#">WG1165154</a>
1,1-Dichloropropene	U		0.000764	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00191	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000865	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000382	0.00109	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Ethylbenzene	U		0.000578	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
2-Hexanone	U		0.0109	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
n-Hexane	U	<u>JO</u>	0.00116	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Iodomethane	U		0.00660	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Isopropylbenzene	U		0.000942	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00254	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
2-Butanone (MEK)	0.0152	<u>J</u>	0.0136	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00724	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/06/18 09:00

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Naphthalene	U		0.00340	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
n-Propylbenzene	U		0.00129	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Styrene	U		0.00298	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.0147	0.0546	20	09/13/2018 04:50	<a href="#">WG1165154</a>
Tetrachloroethene	11.0		0.0153	0.0546	20	09/13/2018 04:50	<a href="#">WG1165154</a>
Toluene	0.00277	J	0.00136	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000300	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.000963	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Trichloroethene	4.48		0.00873	0.0218	20	09/13/2018 04:50	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000546	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00556	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	0.00251	J	0.00127	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00125	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Vinyl acetate	U	JO	0.00384	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Vinyl chloride	U		0.000745	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Xylenes, Total	U		0.104	0.142	20	09/13/2018 04:50	<a href="#">WG1165154</a>
(S) Toluene-d8	105			75.0-131		09/12/2018 05:27	<a href="#">WG1164600</a>
(S) Toluene-d8	100			75.0-131		09/13/2018 04:50	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	93.5			65.0-129		09/12/2018 05:27	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	105			65.0-129		09/13/2018 04:50	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/12/2018 05:27	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	96.9			67.0-138		09/13/2018 04:50	<a href="#">WG1165154</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-04 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-04 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	09/13/2018 11:53	<a href="#">WG1165176</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0171	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00237	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Benzene	0.000702	J	0.000500	0.00125	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromobenzene	U		0.00131	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000985	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00142	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromoform	U		0.00748	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromomethane	U		0.00462	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
n-Butylbenzene	U		0.00480	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
sec-Butylbenzene	U		0.00316	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
tert-Butylbenzene	U		0.00193	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00507	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00134	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000716	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000563	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chloroethane	U		0.00134	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chloroform	U		0.000519	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chloromethane	U		0.00173	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00115	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00142	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00638	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000656	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Dibromomethane	U		0.00125	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00182	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00212	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00247	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.00102	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000720	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000595	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1-Dichloroethene	0.00379		0.000625	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	1.02		0.000862	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
trans-1,2-Dichloroethene	U	JO	0.00179	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		0.00157	0.00619	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
1,1-Dichloropropene	U		0.000875	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00219	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000848	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00191	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00175	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000991	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000438	0.00125	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Ethylbenzene	U		0.000663	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0159	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
2-Hexanone	U		0.0125	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
n-Hexane	U	JO	0.00132	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Iodomethane	U		0.00756	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Isopropylbenzene	U		0.00108	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00291	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
2-Butanone (MEK)	0.0350		0.0156	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00830	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 09/06/18 10:15

L1024338

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000369	0.00125	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Naphthalene	U		0.00390	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
n-Propylbenzene	U		0.00147	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Styrene	U		0.00341	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000625	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000487	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.000836	0.00310	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
Tetrachloroethene	0.0689		0.000867	0.00310	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
Toluene	0.00246	<u>J</u>	0.00156	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000781	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00603	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000344	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.00110	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Trichloroethene	0.0349		0.000495	0.00124	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000625	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00638	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	U		0.00145	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00144	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	U		0.00134	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Vinyl acetate	U	<u>JO</u>	0.00440	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Vinyl chloride	0.0927		0.000854	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Xylenes, Total	U		0.00592	0.00805	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
(S) Toluene-d8	90.7			75.0-131		09/12/2018 05:46	<a href="#">WG1164600</a>
(S) Toluene-d8	110			75.0-131		09/13/2018 03:30	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	98.7			65.0-129		09/12/2018 05:46	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	87.8			65.0-129		09/13/2018 03:30	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	95.7			67.0-138		09/12/2018 05:46	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	109			67.0-138		09/13/2018 03:30	<a href="#">WG1165154</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.5		1	09/13/2018 11:53	<a href="#">WG1165176</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	<u>J3</u>	0.0155	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00215	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Benzene	0.000635	<u>J</u>	0.000452	0.00113	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromobenzene	U		0.00119	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000891	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00128	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromoform	U		0.00676	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromomethane	U		0.00418	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
n-Butylbenzene	U		0.00434	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
sec-Butylbenzene	U		0.00286	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
tert-Butylbenzene	U		0.00175	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00459	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00122	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000648	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000509	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chloroethane	U		0.00122	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chloroform	U		0.000469	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chloromethane	U		0.00157	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00104	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00128	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000593	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Dibromomethane	U		0.00113	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00164	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00192	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00223	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.000925	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000650	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000537	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1-Dichloroethene	0.0124		0.000565	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	3.74		0.00780	0.0283	10	09/13/2018 05:09	<a href="#">WG1165154</a>
trans-1,2-Dichloroethene	0.0101	<u>JO</u>	0.00162	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		0.0144	0.0565	10	09/13/2018 05:09	<a href="#">WG1165154</a>
1,1-Dichloropropene	U		0.000791	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00198	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000896	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000396	0.00113	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Ethylbenzene	U		0.000599	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
2-Hexanone	U		0.0113	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
n-Hexane	U	<u>JO</u>	0.00120	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Iodomethane	U		0.00684	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Isopropylbenzene	U		0.000975	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00263	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
2-Butanone (MEK)	U		0.0141	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00751	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/07/18 13:40

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Naphthalene	U		0.00353	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
n-Propylbenzene	U		0.00133	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Styrene	U		0.00309	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.00763	0.0283	10	09/13/2018 05:09	<a href="#">WG1165154</a>
Tetrachloroethene	0.313		0.00791	0.0283	10	09/13/2018 05:09	<a href="#">WG1165154</a>
Toluene	0.00380	J	0.00141	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000311	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.000998	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Trichloroethene	0.0257		0.00452	0.0113	10	09/13/2018 05:09	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000565	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00576	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	0.00191	J	0.00131	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Vinyl acetate	U	JO	0.00398	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Vinyl chloride	0.176	J6	0.000772	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Xylenes, Total	U		0.0540	0.0735	10	09/13/2018 05:09	<a href="#">WG1165154</a>
(S) Toluene-d8	94.9			75.0-131		09/12/2018 06:05	<a href="#">WG1164600</a>
(S) Toluene-d8	102			75.0-131		09/13/2018 05:09	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	94.5			65.0-129		09/12/2018 06:05	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	98.4			65.0-129		09/13/2018 05:09	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/12/2018 06:05	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	94.7			67.0-138		09/13/2018 05:09	<a href="#">WG1165154</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-06 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-06 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	09/13/2018 11:53	<a href="#">WG1165176</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0163	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Acrylonitrile	U		0.00227	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Benzene	0.000769	J	0.000476	0.00119	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Bromobenzene	U		0.00125	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Bromodichloromethane	U		0.0939	0.298	104	09/17/2018 15:38	<a href="#">WG1167356</a>
Bromochloromethane	U		0.00135	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Bromoform	U		0.00712	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Bromomethane	U		0.441	1.49	104	09/17/2018 15:38	<a href="#">WG1167356</a>
n-Butylbenzene	0.00478	J	0.00457	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
sec-Butylbenzene	U		0.00301	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
tert-Butylbenzene	0.00213	J	0.00184	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Carbon disulfide	0.00537	B J	0.00483	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Carbon tetrachloride	U		0.00128	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chlorobenzene	U		0.000682	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chlorodibromomethane	U		0.000536	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chloroethane	U		0.00128	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chloroform	U		0.000495	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chloromethane	U		0.00165	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
2-Chlorotoluene	U		0.00110	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
4-Chlorotoluene	U		0.00135	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dibromo-3-Chloropropane	U		0.00607	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dibromoethane	U	J4	0.000625	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Dibromomethane	U		0.00119	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dichlorobenzene	U		0.00173	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,3-Dichlorobenzene	U		0.00203	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,4-Dichlorobenzene	U	J4	0.00235	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Dichlorodifluoromethane	U		0.000974	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1-Dichloroethane	U		0.000685	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dichloroethane	U		0.000566	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1-Dichloroethene	0.00857		0.000595	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
cis-1,2-Dichloroethene	0.980		0.000822	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
trans-1,2-Dichloroethene	0.0424		0.00171	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dichloropropane	U		0.00151	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1-Dichloropropene	U		0.000834	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,3-Dichloropropane	U		0.00208	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
cis-1,3-Dichloropropene	U		0.000807	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
trans-1,3-Dichloropropene	U		0.00182	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
trans-1,4-Dichloro-2-butene	U		0.00167	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
2,2-Dichloropropane	U		0.000945	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Di-isopropyl ether	U		0.000417	0.00119	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Ethylbenzene	0.00186	J	0.000631	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
2-Hexanone	U		0.0119	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
n-Hexane	U	J4	0.00126	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Iodomethane	U	J4	0.720	1.49	104	09/17/2018 15:38	<a href="#">WG1167356</a>
Isopropylbenzene	0.00133	J	0.00103	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
p-Isopropyltoluene	0.00285	J	0.00277	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
2-Butanone (MEK)	0.0508		0.0149	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Methylene Chloride	U		0.00790	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Naphthalene	0.00586	J	0.00371	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
n-Propylbenzene	0.00290	J	0.00141	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Styrene	U		0.00325	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,1,2-Tetrachloroethane	U		0.000595	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,2,2-Tetrachloroethane	U	J4	0.000465	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,2-Trichlorotrifluoroethane	U		0.000804	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Tetrachloroethene	140		0.0834	0.298	104	09/17/2018 15:38	<a href="#">WG1167356</a>
Toluene	0.00382	J	0.00149	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,3-Trichlorobenzene	U		0.000744	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,1-Trichloroethane	U	J4	0.000327	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,2-Trichloroethane	U		0.00105	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Trichloroethene	0.882		0.000476	0.00119	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Trichlorofluoromethane	U		0.000595	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,3-Trichloropropane	U		0.00607	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,4-Trimethylbenzene	0.0250		0.00139	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,3-Trimethylbenzene	0.00905		0.00137	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,3,5-Trimethylbenzene	0.00869		0.00128	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Vinyl acetate	U		0.00419	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Vinyl chloride	U		0.000813	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Xylenes, Total	0.00785		0.00569	0.00774	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
(S) Toluene-d8	107			75.0-131		09/17/2018 13:33	<a href="#">WG1166945</a>
(S) Toluene-d8	111			75.0-131		09/17/2018 15:38	<a href="#">WG1167356</a>
(S) Dibromofluoromethane	116			65.0-129		09/17/2018 13:33	<a href="#">WG1166945</a>
(S) Dibromofluoromethane	102			65.0-129		09/17/2018 15:38	<a href="#">WG1167356</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/17/2018 13:33	<a href="#">WG1166945</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/17/2018 15:38	<a href="#">WG1167356</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1024338-07 WG1166945, WG1167356: Not all analytes reportable at lower dilution.

L1024338-07 WG1166945, WG1167356: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.29	J	1.05	25.0	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Acrylonitrile	U		0.873	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Benzene	U		0.0896	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromobenzene	U		0.133	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromodichloromethane	U		0.0800	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromochloromethane	U		0.145	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromoform	U		0.186	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromomethane	U	JO	0.157	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
n-Butylbenzene	U		0.143	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
sec-Butylbenzene	U		0.134	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
tert-Butylbenzene	U		0.183	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Carbon disulfide	U		0.101	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Carbon tetrachloride	U		0.159	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chlorobenzene	U		0.140	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chlorodibromomethane	U		0.128	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chloroethane	U		0.141	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chloroform	U		0.0860	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chloromethane	U		0.153	1.25	1	09/13/2018 01:50	<a href="#">WG1164809</a>
2-Chlorotoluene	U		0.111	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
4-Chlorotoluene	U		0.0972	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dibromoethane	U		0.193	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Dibromomethane	U		0.117	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Dichlorodifluoromethane	U		0.127	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1-Dichloroethane	U		0.114	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dichloroethane	U		0.108	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1-Dichloroethene	U		0.188	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dichloropropane	U		0.190	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1-Dichloropropene	U		0.128	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,3-Dichloropropane	U		0.147	1.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
2,2-Dichloropropane	U		0.0929	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Di-isopropyl ether	U		0.0924	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Ethylbenzene	U		0.158	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
2-Hexanone	U		0.757	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
n-Hexane	U		0.305	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Iodomethane	U	JO	0.377	10.0	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Isopropylbenzene	U		0.126	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
p-Isopropyltoluene	U		0.138	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
2-Butanone (MEK)	U		1.28	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Methylene Chloride	U		1.07	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Methyl tert-butyl ether	U		0.102	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Naphthalene	U		0.174	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
n-Propylbenzene	U		0.162	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Styrene	U		0.117	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/06/18 00:00

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Tetrachloroethene	U		0.199	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Toluene	U		0.412	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Trichloroethene	U		0.153	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Trichlorofluoromethane	U		0.130	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Vinyl chloride	U		0.118	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Xylenes, Total	U		0.316	1.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
(S) Toluene-d8	107			80.0-120		09/13/2018 01:50	<a href="#">WG1164809</a>
(S) Dibromofluoromethane	92.9			75.0-120		09/13/2018 01:50	<a href="#">WG1164809</a>
(S) 4-Bromofluorobenzene	104			77.0-126		09/13/2018 01:50	<a href="#">WG1164809</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Method Blank (MB)

(MB) R3341902-1 09/13/18 12:19

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00200			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1024338-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1024338-02 09/13/18 12:19 • (DUP) R3341902-3 09/13/18 12:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	91.7	89.2	1	2.74		10

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3341902-2 09/13/18 12:19

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

9 Sc



Method Blank (MB)

(MB) R3341900-1 09/13/18 11:53

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1024338-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1024338-04 09/13/18 11:53 • (DUP) R3341900-3 09/13/18 11:53

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	91.6	90.4	1	1.33		10

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3341900-2 09/13/18 11:53

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3341328-2 09/11/18 22:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3341328-2 09/11/18 22:38

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	0.00417	J	0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Toluene	U		0.00125	0.00500
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
(S) Toluene-d8	105			75.0-131
(S) Dibromofluoromethane	94.6			65.0-129
(S) 4-Bromofluorobenzene	102			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3341328-1 09/11/18 21:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.861	138	10.0-160	
Acrylonitrile	0.625	0.668	107	45.0-153	
Benzene	0.125	0.106	85.2	70.0-123	



Laboratory Control Sample (LCS)

(LCS) R3341328-1 09/11/18 21:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	0.125	0.122	97.4	73.0-121	
Bromodichloromethane	0.125	0.139	111	73.0-121	
Bromochloromethane	0.125	0.116	92.9	77.0-128	
Bromoform	0.125	0.148	119	64.0-132	
Bromomethane	0.125	0.111	88.8	56.0-147	
n-Butylbenzene	0.125	0.106	84.8	68.0-135	
sec-Butylbenzene	0.125	0.104	83.6	74.0-130	
tert-Butylbenzene	0.125	0.103	82.5	75.0-127	
Carbon disulfide	0.125	0.101	81.0	56.0-133	
Carbon tetrachloride	0.125	0.136	109	66.0-128	
Chlorobenzene	0.125	0.132	105	76.0-128	
Chlorodibromomethane	0.125	0.135	108	74.0-127	
Chloroethane	0.125	0.128	102	61.0-134	
Chloroform	0.125	0.116	93.1	72.0-123	
Chloromethane	0.125	0.117	93.8	51.0-138	
2-Chlorotoluene	0.125	0.109	87.4	75.0-124	
4-Chlorotoluene	0.125	0.118	94.6	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.148	119	59.0-130	
1,2-Dibromoethane	0.125	0.121	96.6	74.0-128	
Dibromomethane	0.125	0.141	113	75.0-122	
1,2-Dichlorobenzene	0.125	0.125	99.7	76.0-124	
1,3-Dichlorobenzene	0.125	0.113	90.1	76.0-125	
1,4-Dichlorobenzene	0.125	0.108	86.3	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.119	95.4	45.0-143	
Dichlorodifluoromethane	0.125	0.133	106	43.0-156	
1,1-Dichloroethane	0.125	0.114	91.3	70.0-127	
1,2-Dichloroethane	0.125	0.115	91.7	65.0-131	
1,1-Dichloroethene	0.125	0.109	87.4	65.0-131	
cis-1,2-Dichloroethene	0.125	0.111	88.4	73.0-125	
trans-1,2-Dichloroethene	0.125	0.0984	78.7	71.0-125	
1,1-Dichloropropene	0.125	0.105	83.9	73.0-125	
1,3-Dichloropropane	0.125	0.127	101	80.0-125	
cis-1,3-Dichloropropene	0.125	0.118	94.5	76.0-127	
trans-1,3-Dichloropropene	0.125	0.135	108	73.0-127	
2,2-Dichloropropane	0.125	0.109	86.8	59.0-135	
Di-isopropyl ether	0.125	0.111	88.9	60.0-136	
Ethylbenzene	0.125	0.125	99.8	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.142	113	57.0-150	
2-Hexanone	0.625	0.760	122	54.0-147	
n-Hexane	0.125	0.0850	68.0	55.0-137	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3341328-1 09/11/18 21:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Iodomethane	0.625	0.579	92.6	74.0-134	
Isopropylbenzene	0.125	0.107	85.2	72.0-127	
p-Isopropyltoluene	0.125	0.109	87.3	72.0-133	
2-Butanone (MEK)	0.625	0.689	110	30.0-160	
Methylene Chloride	0.125	0.111	88.5	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.733	117	56.0-143	
Methyl tert-butyl ether	0.125	0.112	89.5	66.0-132	
Naphthalene	0.125	0.118	94.7	59.0-130	
n-Propylbenzene	0.125	0.100	80.2	74.0-126	
Styrene	0.125	0.113	90.5	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.138	110	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.120	96.1	68.0-128	
Toluene	0.125	0.120	95.7	75.0-121	
1,2,3-Trichlorobenzene	0.125	0.118	94.3	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.120	95.7	62.0-137	
1,1,1-Trichloroethane	0.125	0.112	89.9	69.0-126	
1,1,2-Trichloroethane	0.125	0.119	95.6	78.0-123	
Trichlorofluoromethane	0.125	0.111	88.5	61.0-142	
1,2,3-Trichloropropane	0.125	0.138	110	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.129	103	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.112	89.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.111	88.7	73.0-127	
Vinyl acetate	0.625	0.387	61.9	43.0-159	
Vinyl chloride	0.125	0.127	102	63.0-134	
(S) Toluene-d8			107	75.0-131	
(S) Dibromofluoromethane			95.5	65.0-129	
(S) 4-Bromofluorobenzene			94.0	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1024338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1024338-06 09/12/18 06:05 • (MS) R3341328-3 09/11/18 23:07 • (MSD) R3341328-4 09/11/18 23:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acetone	0.706	U	0.711	0.401	101	56.8	1	10.0-160		J3	55.7	40
Acrylonitrile	0.706	U	0.620	0.473	87.8	67.0	1	10.0-160			26.8	40
Benzene	0.141	0.000635	0.0702	0.0717	49.2	50.3	1	10.0-149			2.10	37
Bromobenzene	0.141	U	0.0920	0.115	65.1	81.5	1	10.0-156			22.4	38
Bromodichloromethane	0.141	U	0.130	0.125	91.8	88.8	1	10.0-143			3.38	37
Bromochloromethane	0.141	U	0.0769	0.0835	54.4	59.1	1	10.0-155			8.27	33



L1024338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1024338-06 09/12/18 06:05 • (MS) R3341328-3 09/11/18 23:07 • (MSD) R3341328-4 09/11/18 23:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromoform	0.141	U	0.128	0.140	90.3	99.1	1	10.0-146			9.25	36
Bromomethane	0.141	U	0.0509	0.0466	36.0	33.0	1	10.0-149			8.69	38
n-Butylbenzene	0.141	U	0.0943	0.108	66.8	76.2	1	10.0-160			13.2	40
sec-Butylbenzene	0.141	U	0.0852	0.0997	60.3	70.6	1	10.0-159			15.7	39
tert-Butylbenzene	0.141	U	0.0872	0.102	61.7	72.2	1	10.0-156			15.6	39
Carbon disulfide	0.141	U	0.0276	0.0289	19.5	20.5	1	10.0-145			4.69	39
Carbon tetrachloride	0.141	U	0.100	0.101	70.8	71.3	1	10.0-145			0.735	37
Chlorobenzene	0.141	U	0.0867	0.0940	61.3	66.6	1	10.0-152			8.16	39
Chlorodibromomethane	0.141	U	0.103	0.106	72.8	74.8	1	10.0-146			2.69	37
Chloroethane	0.141	U	0.0422	0.0436	29.8	30.8	1	10.0-146			3.26	40
Chloroform	0.141	U	0.0900	0.0918	63.7	64.9	1	10.0-146			1.95	37
Chloromethane	0.141	U	0.0584	0.0616	41.4	43.6	1	10.0-159			5.34	37
2-Chlorotoluene	0.141	U	0.0877	0.101	62.1	71.4	1	10.0-159			13.9	38
4-Chlorotoluene	0.141	U	0.0869	0.104	61.5	73.3	1	10.0-155			17.5	39
1,2-Dibromo-3-Chloropropane	0.141	U	0.108	0.109	76.6	76.9	1	10.0-151			0.474	39
1,2-Dibromoethane	0.141	U	0.0920	0.0860	65.1	60.8	1	10.0-148			6.78	34
Dibromomethane	0.141	U	0.106	0.108	75.2	76.3	1	10.0-147			1.43	35
1,2-Dichlorobenzene	0.141	U	0.107	0.111	75.9	78.4	1	10.0-155			3.22	37
1,3-Dichlorobenzene	0.141	U	0.0968	0.109	68.5	77.0	1	10.0-153			11.7	38
1,4-Dichlorobenzene	0.141	U	0.0925	0.0957	65.4	67.7	1	10.0-151			3.44	38
trans-1,4-Dichloro-2-butene	0.141	U	0.116	0.118	81.8	83.5	1	10.0-152			2.00	36
Dichlorodifluoromethane	0.141	U	0.0785	0.0728	55.6	51.5	1	10.0-160			7.63	35
1,1-Dichloroethane	0.141	U	0.0869	0.0853	61.5	60.3	1	10.0-147			1.94	37
1,2-Dichloroethane	0.141	U	0.0989	0.0966	70.0	68.4	1	10.0-148			2.29	35
1,1-Dichloroethene	0.141	0.0124	0.0721	0.0768	42.3	45.6	1	10.0-155			6.27	37
cis-1,2-Dichloroethene	0.141	3.92	2.68	2.66	0.000	0.000	1	10.0-149	EV	EV	0.908	37
trans-1,2-Dichloroethene	0.141	0.0101	0.0632	0.0649	37.6	38.8	1	10.0-150			2.59	37
1,1-Dichloropropene	0.141	U	0.0607	0.0613	42.9	43.4	1	10.0-153			0.933	35
1,3-Dichloropropane	0.141	U	0.0923	0.0970	65.3	68.7	1	10.0-154			5.02	35
cis-1,3-Dichloropropene	0.141	U	0.0797	0.0892	56.4	63.1	1	10.0-151			11.3	37
trans-1,3-Dichloropropene	0.141	U	0.0970	0.0942	68.6	66.7	1	10.0-148			2.91	37
2,2-Dichloropropane	0.141	U	0.0907	0.0928	64.2	65.7	1	10.0-138			2.32	36
Di-isopropyl ether	0.141	U	0.0952	0.0965	67.4	68.3	1	10.0-147			1.35	36
Ethylbenzene	0.141	U	0.0811	0.0843	57.4	59.7	1	10.0-160			3.89	38
Hexachloro-1,3-butadiene	0.141	U	0.156	0.160	111	113	1	10.0-160			2.41	40
2-Hexanone	0.706	U	0.525	0.490	74.3	69.4	1	10.0-160			6.86	36
n-Hexane	0.141	U	0.0412	0.0438	29.2	31.0	1	10.0-157			6.08	37
Iodomethane	0.706	U	0.313	0.323	44.4	45.8	1	10.0-160			3.14	38
Isopropylbenzene	0.141	U	0.0863	0.101	61.0	71.4	1	10.0-155			15.6	38

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





L1024338-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1024338-06 09/12/18 06:05 • (MS) R3341328-3 09/11/18 23:07 • (MSD) R3341328-4 09/11/18 23:26

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	0.141	U	0.0863	0.0976	61.1	69.1	1	10.0-160			12.3	40
2-Butanone (MEK)	0.706	U	0.805	0.676	114	95.7	1	10.0-160			17.4	40
Methylene Chloride	0.141	U	0.0697	0.0714	49.3	50.5	1	10.0-141			2.37	37
4-Methyl-2-pentanone (MIBK)	0.706	U	0.582	0.558	82.4	79.0	1	10.0-160			4.20	35
Methyl tert-butyl ether	0.141	U	0.0812	0.0859	57.5	60.8	1	11.0-147			5.57	35
Naphthalene	0.141	U	0.0939	0.100	66.4	71.1	1	10.0-160			6.76	36
n-Propylbenzene	0.141	U	0.0807	0.0906	57.1	64.1	1	10.0-158			11.5	38
Styrene	0.141	U	0.0938	0.110	66.4	78.1	1	10.0-160			16.1	40
1,1,1,2-Tetrachloroethane	0.141	U	0.0957	0.105	67.7	74.4	1	10.0-149			9.42	39
1,1,2,2-Tetrachloroethane	0.141	U	0.0992	0.103	70.2	72.7	1	10.0-160			3.57	35
Toluene	0.141	0.00380	0.0758	0.0849	51.0	57.4	1	10.0-156			11.2	38
1,2,3-Trichlorobenzene	0.141	U	0.110	0.125	77.6	88.4	1	10.0-160			13.0	40
1,2,4-Trichlorobenzene	0.141	U	0.113	0.115	80.3	81.3	1	10.0-160			1.25	40
1,1,1-Trichloroethane	0.141	U	0.0950	0.0903	67.3	63.9	1	10.0-144			5.10	35
1,1,2-Trichloroethane	0.141	U	0.0947	0.102	67.0	72.3	1	10.0-160			7.49	35
Trichlorofluoromethane	0.141	U	0.0514	0.0616	36.4	43.6	1	10.0-160			18.1	40
1,2,3-Trichloropropane	0.141	U	0.116	0.128	82.4	90.6	1	10.0-156			9.57	35
1,2,3-Trimethylbenzene	0.141	U	0.102	0.114	71.9	80.8	1	10.0-160			11.7	36
1,2,4-Trimethylbenzene	0.141	0.00191	0.0931	0.108	64.5	74.8	1	10.0-160			14.4	36
1,3,5-Trimethylbenzene	0.141	U	0.0861	0.104	60.9	73.6	1	10.0-160			18.8	38
Vinyl acetate	0.706	U	0.280	0.232	39.7	32.9	1	10.0-128			18.8	40
Vinyl chloride	0.141	0.176	0.179	0.173	2.19	0.000	1	10.0-160	J6	J6	3.65	37
(S) Toluene-d8					90.4	96.1		75.0-131				
(S) Dibromofluoromethane					96.2	93.7		65.0-129				
(S) 4-Bromofluorobenzene					94.7	103		67.0-138				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

OS: Not all analytes reportable at lower dilution.



Method Blank (MB)

(MB) R3341601-2 09/12/18 22:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
cis-1,2-Dichloroethene	U		0.000690	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
Tetrachloroethene	U		0.000700	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
Trichloroethene	U		0.000400	0.00100
Xylenes, Total	U		0.00478	0.00650
<i>(S) Toluene-d8</i>	111			75.0-131
<i>(S) Dibromofluoromethane</i>	87.2			65.0-129
<i>(S) 4-Bromofluorobenzene</i>	103			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3341601-1 09/12/18 21:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	0.125	0.113	90.4	73.0-125	
1,2-Dichloropropane	0.125	0.121	96.5	74.0-125	
Tetrachloroethene	0.125	0.119	95.3	70.0-136	
1,1,2-Trichlorotrifluoroethane	0.125	0.126	101	61.0-139	
Trichloroethene	0.125	0.110	88.1	76.0-126	
Xylenes, Total	0.375	0.370	98.7	72.0-127	
<i>(S) Toluene-d8</i>			97.3	75.0-131	
<i>(S) Dibromofluoromethane</i>			106	65.0-129	
<i>(S) 4-Bromofluorobenzene</i>			96.7	67.0-138	

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3341808-1 09/13/18 13:31

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
cis-1,2-Dichloroethene	U		0.000690	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
Tetrachloroethene	U		0.000700	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
Trichloroethene	U		0.000400	0.00100
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	101			75.0-131
(S) Dibromofluoromethane	102			65.0-129
(S) 4-Bromofluorobenzene	105			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3341808-2 09/13/18 13:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	0.125	0.137	109	73.0-125	
1,2-Dichloropropane	0.125	0.142	114	74.0-125	
Tetrachloroethene	0.125	0.117	93.4	70.0-136	
1,1,2-Trichlorotrifluoroethane	0.125	0.138	110	61.0-139	
Trichloroethene	0.125	0.142	114	76.0-126	
Xylenes, Total	0.375	0.352	93.9	72.0-127	
(S) Toluene-d8			99.1	75.0-131	
(S) Dibromofluoromethane			110	65.0-129	
(S) 4-Bromofluorobenzene			103	67.0-138	

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3342518-2 09/17/18 13:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	0.00696	U	0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3342518-2 09/17/18 13:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	0.0106		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0134	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	0.00327	U	0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	0.000685	U	0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	110			75.0-131
(S) Dibromofluoromethane	113			65.0-129
(S) 4-Bromofluorobenzene	102			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3342518-1 09/17/18 11:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.507	81.1	10.0-160	
Acrylonitrile	0.625	0.798	128	45.0-153	



Laboratory Control Sample (LCS)

(LCS) R3342518-1 09/17/18 11:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Benzene	0.125	0.108	86.7	70.0-123	
Bromobenzene	0.125	0.128	102	73.0-121	
Bromochloromethane	0.125	0.107	86.0	77.0-128	
Bromoform	0.125	0.128	103	64.0-132	
n-Butylbenzene	0.125	0.148	118	68.0-135	
sec-Butylbenzene	0.125	0.158	126	74.0-130	
tert-Butylbenzene	0.125	0.145	116	75.0-127	
Carbon disulfide	0.125	0.108	86.2	56.0-133	
Carbon tetrachloride	0.125	0.149	119	66.0-128	
Chlorobenzene	0.125	0.116	92.7	76.0-128	
Chlorodibromomethane	0.125	0.110	88.0	74.0-127	
Chloroethane	0.125	0.113	90.4	61.0-134	
Chloroform	0.125	0.108	86.1	72.0-123	
Chloromethane	0.125	0.0964	77.1	51.0-138	
2-Chlorotoluene	0.125	0.122	97.4	75.0-124	
4-Chlorotoluene	0.125	0.130	104	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.119	94.9	59.0-130	
1,2-Dibromoethane	0.125	0.0899	72.0	74.0-128	J4
Dibromomethane	0.125	0.135	108	75.0-122	
1,2-Dichlorobenzene	0.125	0.109	87.3	76.0-124	
1,3-Dichlorobenzene	0.125	0.0998	79.8	76.0-125	
1,4-Dichlorobenzene	0.125	0.0916	73.3	77.0-121	J4
trans-1,4-Dichloro-2-butene	0.125	0.121	96.9	45.0-143	
Dichlorodifluoromethane	0.125	0.127	102	43.0-156	
1,1-Dichloroethane	0.125	0.157	126	70.0-127	
1,2-Dichloroethane	0.125	0.127	102	65.0-131	
1,1-Dichloroethene	0.125	0.101	81.2	65.0-131	
cis-1,2-Dichloroethene	0.125	0.143	114	73.0-125	
trans-1,2-Dichloroethene	0.125	0.122	97.4	71.0-125	
1,2-Dichloropropane	0.125	0.110	88.2	74.0-125	
1,1-Dichloropropene	0.125	0.150	120	73.0-125	
1,3-Dichloropropane	0.125	0.126	101	80.0-125	
cis-1,3-Dichloropropene	0.125	0.151	121	76.0-127	
trans-1,3-Dichloropropene	0.125	0.131	105	73.0-127	
2,2-Dichloropropane	0.125	0.156	125	59.0-135	
Di-isopropyl ether	0.125	0.132	106	60.0-136	
Ethylbenzene	0.125	0.105	84.3	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.129	103	57.0-150	
2-Hexanone	0.625	0.663	106	54.0-147	
n-Hexane	0.125	0.176	141	55.0-137	J4

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3342518-1 09/17/18 11:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Isopropylbenzene	0.125	0.110	88.4	72.0-127	
p-Isopropyltoluene	0.125	0.136	109	72.0-133	
2-Butanone (MEK)	0.625	0.766	122	30.0-160	
Methylene Chloride	0.125	0.111	88.6	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.727	116	56.0-143	
Methyl tert-butyl ether	0.125	0.152	121	66.0-132	
Naphthalene	0.125	0.112	89.9	59.0-130	
n-Propylbenzene	0.125	0.114	90.8	74.0-126	
Styrene	0.125	0.0960	76.8	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.104	82.8	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.161	129	68.0-128	J4
Toluene	0.125	0.101	80.4	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.156	125	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.118	94.6	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.129	103	62.0-137	
1,1,1-Trichloroethane	0.125	0.171	137	69.0-126	J4
1,1,2-Trichloroethane	0.125	0.113	90.2	78.0-123	
Trichloroethene	0.125	0.118	94.5	76.0-126	
Trichlorofluoromethane	0.125	0.156	125	61.0-142	
1,2,3-Trichloropropane	0.125	0.132	106	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.140	112	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.129	103	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.137	109	73.0-127	
Vinyl acetate	0.625	0.873	140	43.0-159	
Vinyl chloride	0.125	0.112	89.8	63.0-134	
Xylenes, Total	0.375	0.306	81.6	72.0-127	
<i>(S) Toluene-d8</i>			101	75.0-131	
<i>(S) Dibromofluoromethane</i>			108	65.0-129	
<i>(S) 4-Bromofluorobenzene</i>			102	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3342545-1 09/17/18 11:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Bromodichloromethane	U		0.000788	0.00250
Bromomethane	U		0.00370	0.0125
Iodomethane	U		0.00605	0.0125
Tetrachloroethene	U		0.000700	0.00250
<i>(S) Toluene-d8</i>	109			75.0-131
<i>(S) Dibromofluoromethane</i>	104			65.0-129
<i>(S) 4-Bromofluorobenzene</i>	103			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3342545-2 09/17/18 11:45

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
Bromodichloromethane	0.125	0.103	82.4	73.0-121	
Bromomethane	0.125	0.124	99.3	56.0-147	
Iodomethane	0.625	0.280	44.7	74.0-134	<u>J4</u>
Tetrachloroethene	0.125	0.116	92.7	70.0-136	
<i>(S) Toluene-d8</i>			104	75.0-131	
<i>(S) Dibromofluoromethane</i>			100	65.0-129	
<i>(S) 4-Bromofluorobenzene</i>			104	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3342055-3 09/12/18 22:43

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3342055-3 09/12/18 22:43

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.274	U	0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	108			80.0-120
(S) Dibromofluoromethane	91.7			75.0-120
(S) 4-Bromofluorobenzene	103			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3342055-1 09/12/18 21:24 • (LCSD) R3342055-2 09/12/18 21:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	117	124	93.6	99.4	19.0-160			6.01	27
Acrylonitrile	125	130	134	104	107	55.0-149			2.91	20
Benzene	25.0	23.0	22.8	92.1	91.2	70.0-123			0.979	20
Bromobenzene	25.0	24.3	24.1	97.0	96.3	73.0-121			0.781	20
Bromodichloromethane	25.0	24.3	24.1	97.2	96.2	75.0-120			0.965	20
Bromochloromethane	25.0	28.4	26.9	113	108	76.0-122			5.10	20
Bromoform	25.0	27.8	26.9	111	108	68.0-132			3.33	20
Bromomethane	25.0	11.8	14.6	47.2	58.3	10.0-160			21.2	25
n-Butylbenzene	25.0	21.4	21.5	85.5	86.0	73.0-125			0.595	20
sec-Butylbenzene	25.0	23.5	23.4	94.0	93.4	75.0-125			0.599	20
tert-Butylbenzene	25.0	23.6	23.2	94.6	93.0	76.0-124			1.70	20
Carbon disulfide	25.0	20.9	20.9	83.5	83.5	61.0-128			0.0728	20
Carbon tetrachloride	25.0	22.8	23.2	91.3	93.0	68.0-126			1.79	20
Chlorobenzene	25.0	27.2	27.7	109	111	80.0-121			1.65	20
Chlorodibromomethane	25.0	26.6	26.4	107	106	77.0-125			0.923	20
Chloroethane	25.0	20.6	20.6	82.5	82.2	47.0-150			0.292	20
Chloroform	25.0	23.2	23.7	92.7	94.8	73.0-120			2.26	20
Chloromethane	25.0	20.3	20.4	81.3	81.7	41.0-142			0.424	20
2-Chlorotoluene	25.0	24.5	24.1	97.8	96.3	76.0-123			1.58	20
4-Chlorotoluene	25.0	22.6	22.4	90.2	89.7	75.0-122			0.643	20
1,2-Dibromo-3-Chloropropane	25.0	27.5	28.3	110	113	58.0-134			2.98	20
1,2-Dibromoethane	25.0	27.9	28.4	112	114	80.0-122			1.76	20
Dibromomethane	25.0	22.9	22.9	91.7	91.5	80.0-120			0.211	20
1,2-Dichlorobenzene	25.0	25.8	25.2	103	101	79.0-121			2.32	20
1,3-Dichlorobenzene	25.0	24.9	24.2	99.4	96.9	79.0-120			2.61	20
1,4-Dichlorobenzene	25.0	24.7	23.1	98.7	92.4	79.0-120			6.56	20
Dichlorodifluoromethane	25.0	25.0	24.9	99.9	99.6	51.0-149			0.350	20
1,1-Dichloroethane	25.0	22.1	22.6	88.5	90.3	70.0-126			2.05	20
1,2-Dichloroethane	25.0	22.5	22.3	90.1	89.2	70.0-128			1.06	20
1,1-Dichloroethene	25.0	23.3	23.1	93.1	92.2	71.0-124			0.959	20
cis-1,2-Dichloroethene	25.0	24.3	23.1	97.2	92.2	73.0-120			5.23	20
trans-1,2-Dichloroethene	25.0	23.6	23.6	94.4	94.4	73.0-120			0.00890	20
1,2-Dichloropropane	25.0	24.9	24.5	99.5	98.1	77.0-125			1.41	20
1,1-Dichloropropene	25.0	22.4	22.2	89.8	88.8	74.0-126			1.09	20
1,3-Dichloropropane	25.0	26.7	27.0	107	108	80.0-120			0.998	20
cis-1,3-Dichloropropene	25.0	26.8	27.4	107	110	80.0-123			2.26	20
trans-1,3-Dichloropropene	25.0	25.9	25.0	103	99.9	78.0-124			3.54	20
trans-1,4-Dichloro-2-butene	25.0	18.3	18.5	73.0	74.2	33.0-144			1.52	20
2,2-Dichloropropane	25.0	20.1	21.0	80.5	84.1	58.0-130			4.34	20
Di-isopropyl ether	25.0	23.3	23.0	93.2	91.9	58.0-138			1.45	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3342055-1 09/12/18 21:24 • (LCSD) R3342055-2 09/12/18 21:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	25.0	26.6	27.3	106	109	79.0-123			2.65	20
Hexachloro-1,3-butadiene	25.0	21.6	20.8	86.5	83.3	54.0-138			3.83	20
2-Hexanone	125	148	150	118	120	67.0-149			1.27	20
n-Hexane	25.0	21.1	21.5	84.5	85.8	57.0-133			1.61	20
Iodomethane	125	95.6	110	76.5	88.2	33.0-147			14.2	26
Isopropylbenzene	25.0	28.8	28.2	115	113	76.0-127			2.10	20
p-Isopropyltoluene	25.0	23.9	23.7	95.5	95.0	76.0-125			0.568	20
2-Butanone (MEK)	125	123	124	98.2	99.6	44.0-160			1.40	20
Methylene Chloride	25.0	21.6	21.5	86.6	86.1	67.0-120			0.523	20
4-Methyl-2-pentanone (MIBK)	125	135	137	108	110	68.0-142			1.88	20
Methyl tert-butyl ether	25.0	22.8	23.2	91.3	92.7	68.0-125			1.52	20
Naphthalene	25.0	24.7	25.0	98.6	99.8	54.0-135			1.19	20
n-Propylbenzene	25.0	25.9	25.7	104	103	77.0-124			0.840	20
Styrene	25.0	29.2	28.5	117	114	73.0-130			2.55	20
1,1,1,2-Tetrachloroethane	25.0	27.0	26.9	108	107	75.0-125			0.409	20
1,1,2,2-Tetrachloroethane	25.0	27.7	26.6	111	106	65.0-130			4.00	20
1,1,2-Trichlorotrifluoroethane	25.0	22.8	23.3	91.0	93.1	69.0-132			2.26	20
Tetrachloroethene	25.0	26.8	26.7	107	107	72.0-132			0.472	20
Toluene	25.0	25.4	25.6	102	102	79.0-120			0.747	20
1,2,3-Trichlorobenzene	25.0	25.1	25.7	100	103	50.0-138			2.56	20
1,2,4-Trichlorobenzene	25.0	24.7	24.2	98.6	96.7	57.0-137			1.97	20
1,1,1-Trichloroethane	25.0	22.5	22.3	89.9	89.3	73.0-124			0.643	20
1,1,2-Trichloroethane	25.0	26.8	26.9	107	108	80.0-120			0.499	20
Trichloroethene	25.0	24.7	25.3	98.8	101	78.0-124			2.52	20
Trichlorofluoromethane	25.0	24.7	24.8	98.9	99.4	59.0-147			0.503	20
1,2,3-Trichloropropane	25.0	27.5	26.3	110	105	73.0-130			4.43	20
1,2,4-Trimethylbenzene	25.0	24.2	23.5	96.9	94.0	76.0-121			3.03	20
1,2,3-Trimethylbenzene	25.0	22.5	22.2	90.1	88.7	77.0-120			1.65	20
1,3,5-Trimethylbenzene	25.0	26.5	26.7	106	107	76.0-122			0.744	20
Vinyl acetate	125	90.6	85.2	72.5	68.2	11.0-160			6.15	20
Vinyl chloride	25.0	24.6	24.3	98.6	97.2	67.0-131			1.36	20
Xylenes, Total	75.0	79.0	80.2	105	107	79.0-123			1.51	20
(S) Toluene-d8				105	107	80.0-120				
(S) Dibromofluoromethane				90.3	91.2	75.0-120				
(S) 4-Bromofluorobenzene				108	106	77.0-126				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

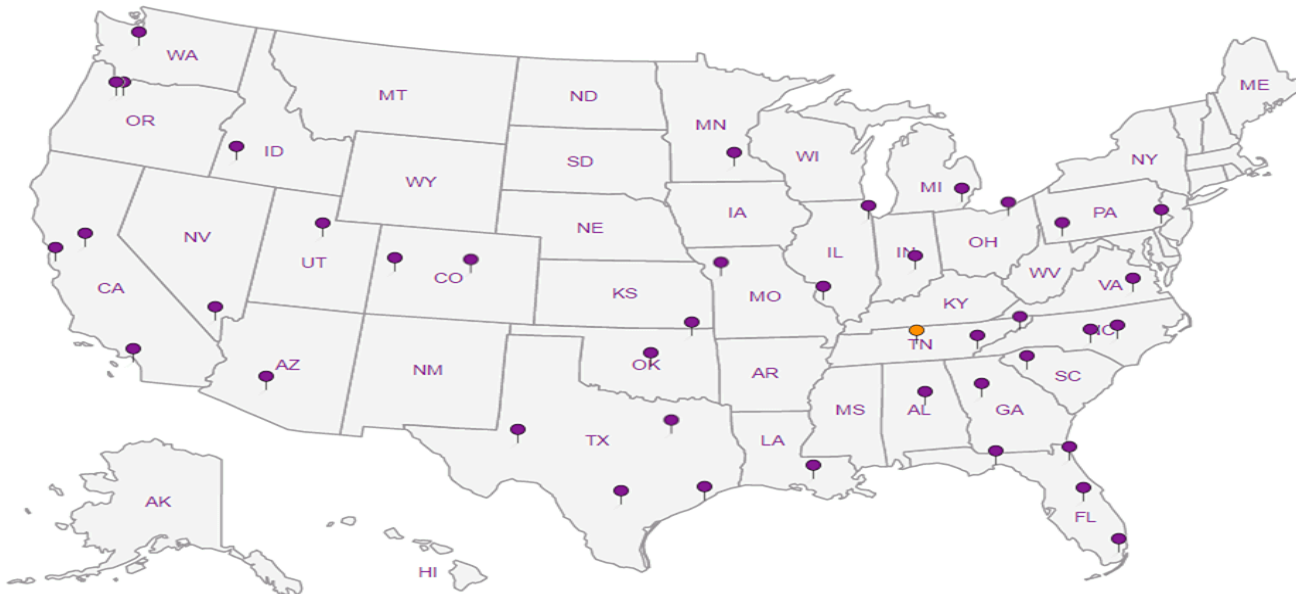
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com

Project  
Description: **American Linen**

City/State  
Collected: **SEATTLE, WA**

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
**1413.001.05.304**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**S MCKERNAN**

Site/Facility ID #

P.O. #

Collected by (signature):

**Rush?** (Lab MUST Be Notified)

Quote #

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed

Immediately Packed on Ice N  Y  A

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5850



L# **L1024338**  
**D180**

Acctnum: **PESENVSWA**

Template: **T139825**

Prelogin: **P668288**

TSR: **110 - Brian Ford**

PB:

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative	Remarks	Sample # (loc only)
1W-23C-42	F	SS	42	9/4/18	1630	2	VOCs V8260C 40mlAmb/MeOH5ml/Syr		01
1W-54B-8	F	SS	8	9/5/18	1700	2	dry weight 2ozClr-NoPres		02
1W-54B-13	F	SS	13	9/6/18	0855	2	trip blk V8260LLC 40mlAmb-HCl-Blk		03
1W-54B-19	F	SS	19		0830	2		HOLD	04
1W-54B-21	F	SS	21		0900	2		HOLD	05
1W-54B-25	F	SS	25		1000	2			05
1W-54B-33	F	SS	33		1015	2		HOLD	06
1W-24C-36	F	SS	36	9/7/18	1140	2			06
1W-24C-48	F	SS	48		1340	2			07
1W-24C-55	F	SS	55		1420	2			07

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

RAD SCREEN: <0.5 mR/hr

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **4510 1054 1900**

Sample Receipt Checklist  
COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VQA Zero Headpace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)	Date: 9/7/18	Time: 1600	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No HCl/MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.25 °C Bottles Received: 20
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 9/8/18 Time: 8:45

**09-0027**

Condition:  
NCF / OK

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Report to:  
Brian O'Neal/Bill Haldeman

Project Description: **American Linen**

Phone: 206-529-3980  
Fax: 206-529-3985

Collected by (print):  
**S. MCKERNAN**

Collected by (signature):  
*[Signature]*

Immediately Packed on Ice N    Y    **Y**

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com

City/State Collected: **SEATTLE, WA**

Lab Project #  
**PESENVSWA-ALP**

P.O. #

Quote #

Date Results Needed

Pres Chk

Analysis / Container / Preservative

VOCs V8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozCir-NoPres

trip blk V8260LLC 40mlAmb-HCl-Bik

Chain of Custody Page 2 of 2



13065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# **L1024338**

Table #

Acctnum: **PESENVSWA**

Template: **T139825**

Prelogin: **P668288**

TSR: **110 - Brian Ford**

PB:

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Remarks	Sample # (job only)
TRIP BLANK	—	WSS	—	—	—	1		off
		SS						
		SS						
		SS						
		SS						
		SS						
		SS						
		SS						
		SS						
		SS						

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks: **RAD SCREEN: <0.5 mR/hr**  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_  
Samples returned via:  
UPS  FedEx  Courier   
Tracking # **4510 105T 1900**

Sample Receipt Checklist  
COC Seal Present/Intact:    NP    Y    N  
COC Signed/Accurate:    Y    N  
Bottles arrive intact:    Y    N  
Correct bottles used:    Y    N  
Sufficient volume sent:    Y    N  
If Applicable  
VOA Zero Headpace:    Y    N  
Preservation Correct/Checked:    Y    N

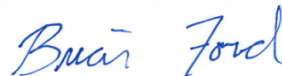
Relinquished by: (Signature) <i>[Signature]</i>	Date: 9/7/18	Time: 1600	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> No <input type="checkbox"/> HCl/MeOH <input type="checkbox"/> TBR	Bottles Received: <b>20</b>	If preservation required by Login: Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: <b>42.5</b> °C	Hold:	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: <b>9/8/18</b>	Time: <b>8:45</b>	

September 21, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1025469  
Samples Received: 09/13/2018  
Project Number: 1413.001.05.304  
Description: American Linen  
Site: 1413.001.05.304  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:












Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





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# SAMPLE SUMMARY



## IW-24C-66 L1025469-01 Solid

Collected by  
S. McKernan  
Collected date/time  
09/10/18 10:30  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166857	1	09/18/18 09:52	09/18/18 10:05	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168763	1	09/13/18 22:12	09/20/18 18:29	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169487	400	09/13/18 22:12	09/21/18 14:38	JHH

1  
Cp

2  
Tc

3  
Ss

## IW-24C-75 L1025469-02 Solid

Collected by  
S. McKernan  
Collected date/time  
09/10/18 10:00  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166857	1	09/18/18 09:52	09/18/18 10:05	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168763	1.08	09/13/18 22:12	09/20/18 18:52	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169487	432	09/13/18 22:12	09/21/18 14:58	JHH

4  
Cn

5  
Sr

6  
Qc

## IW-24C-80 L1025469-03 Solid

Collected by  
S. McKernan  
Collected date/time  
09/10/18 11:00  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166857	1	09/18/18 09:52	09/18/18 10:05	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 01:04	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168808	20	09/13/18 22:12	09/20/18 17:33	BMB

7  
Gl

8  
Al

9  
Sc

## IW-27C-45 L1025469-04 Solid

Collected by  
S. McKernan  
Collected date/time  
09/10/18 11:55  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166858	1	09/17/18 15:02	09/17/18 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 01:24	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168808	20	09/13/18 22:12	09/20/18 17:53	BMB

## IW-14D-45 L1025469-05 Solid

Collected by  
S. McKernan  
Collected date/time  
09/11/18 08:55  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166858	1	09/17/18 15:02	09/17/18 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 01:44	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168808	2	09/13/18 22:12	09/20/18 16:16	JAH

## IW-14D-55 L1025469-06 Solid

Collected by  
S. McKernan  
Collected date/time  
09/11/18 09:50  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166858	1	09/17/18 15:02	09/17/18 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 02:04	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168808	40	09/13/18 22:12	09/20/18 18:12	BMB

# SAMPLE SUMMARY



## IW-14D-65 L1025469-07 Solid

Collected by  
S. McKernan  
Collected date/time  
09/11/18 11:00  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166858	1	09/17/18 15:02	09/17/18 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 02:24	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168808	1	09/13/18 22:12	09/20/18 16:35	JAH

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## IW-14D-75 L1025469-08 Solid

Collected by  
S. McKernan  
Collected date/time  
09/11/18 12:00  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166858	1	09/17/18 15:02	09/17/18 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 02:44	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168808	1	09/13/18 22:12	09/20/18 17:14	BMB

## IW-14D-86 L1025469-09 Solid

Collected by  
S. McKernan  
Collected date/time  
09/11/18 12:35  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166858	1	09/17/18 15:02	09/17/18 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 03:04	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169029	1	09/13/18 22:12	09/20/18 23:35	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169450	1	09/13/18 22:12	09/21/18 15:32	JHH

## IW-14D-95 L1025469-10 Solid

Collected by  
S. McKernan  
Collected date/time  
09/11/18 14:30  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166858	1	09/17/18 15:02	09/17/18 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 03:24	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169029	8	09/13/18 22:12	09/20/18 23:53	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169450	8	09/13/18 22:12	09/21/18 15:52	JHH

## IW-15D-54 L1025469-11 Solid

Collected by  
S. McKernan  
Collected date/time  
09/11/18 16:30  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1166858	1	09/17/18 15:02	09/17/18 15:11	KDW
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1168529	1	09/13/18 22:12	09/20/18 03:43	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169029	4	09/13/18 22:12	09/21/18 00:12	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169450	4	09/13/18 22:12	09/21/18 16:11	JHH

## TRIP BLANK L1025469-12 GW

Collected by  
S. McKernan  
Collected date/time  
09/10/18 00:00  
Received date/time  
09/13/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1166389	1	09/14/18 16:28	09/14/18 16:28	BMB



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.9		1	09/18/2018 10:05	<a href="#">WG1166857</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0169	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Acrylonitrile	U		0.00235	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Benzene	U		0.000495	0.00124	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Bromobenzene	U		0.00130	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Bromodichloromethane	U		0.390	1.24	400	09/21/2018 14:38	<a href="#">WG1169487</a>
Bromochloromethane	U		0.00140	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Bromoform	U		0.00740	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Bromomethane	U		1.83	6.18	400	09/21/2018 14:38	<a href="#">WG1169487</a>
n-Butylbenzene	0.00916	J	0.00475	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
sec-Butylbenzene	0.00315	J	0.00313	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
tert-Butylbenzene	U		0.00192	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Carbon disulfide	U		0.00502	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Carbon tetrachloride	U		0.00134	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chlorobenzene	U		0.000709	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chlorodibromomethane	U		0.000557	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chloroethane	U		0.00134	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chloroform	U		0.000513	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chloromethane	U		0.00172	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
2-Chlorotoluene	U		0.00114	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
4-Chlorotoluene	U		0.00140	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dibromo-3-Chloropropane	U		0.00631	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dibromoethane	U		0.000649	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Dibromomethane	U		0.00124	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dichlorobenzene	U		0.00179	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,3-Dichlorobenzene	U		0.00210	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,4-Dichlorobenzene	U	J4	0.00244	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Dichlorodifluoromethane	U		0.00101	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1-Dichloroethane	U		0.000711	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dichloroethane	U		0.000587	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1-Dichloroethene	0.0130		0.000618	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
cis-1,2-Dichloroethene	2.18		0.341	1.24	400	09/21/2018 14:38	<a href="#">WG1169487</a>
trans-1,2-Dichloroethene	0.0248		0.00177	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dichloropropane	U		0.00157	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1-Dichloropropene	U		0.000866	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,3-Dichloropropane	U		0.00216	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
cis-1,3-Dichloropropene	U	J4	0.000839	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
trans-1,3-Dichloropropene	U		0.00189	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
trans-1,4-Dichloro-2-butene	U		0.00173	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
2,2-Dichloropropane	U		0.000981	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Di-isopropyl ether	U		0.000433	0.00124	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Ethylbenzene	U		0.262	1.24	400	09/21/2018 14:38	<a href="#">WG1169487</a>
Hexachloro-1,3-butadiene	U		0.0157	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
2-Hexanone	U		0.0124	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
n-Hexane	0.00438	J	0.00131	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Iodomethane	U		0.00748	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Isopropylbenzene	0.00161	J	0.00107	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
p-Isopropyltoluene	0.00325	J	0.00288	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
2-Butanone (MEK)	U		0.0155	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Methylene Chloride	0.00907	B J	0.00821	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/10/18 10:30

L1025469

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000365	0.00124	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Naphthalene	0.00746	J	0.00386	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
n-Propylbenzene	0.00663		0.00146	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Styrene	U	JO J4	0.00338	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,1,2-Tetrachloroethane	U		0.000618	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,2,2-Tetrachloroethane	U	J4	0.000482	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,2-Trichlorotrifluoroethane	U		0.000835	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Tetrachloroethene	210		0.346	1.24	400	09/21/2018 14:38	<a href="#">WG1169487</a>
Toluene	U		0.618	2.47	400	09/21/2018 14:38	<a href="#">WG1169487</a>
1,2,3-Trichlorobenzene	U		0.000773	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2,4-Trichlorobenzene	U		0.00596	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,1-Trichloroethane	U		0.000340	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,2-Trichloroethane	U		0.00109	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Trichloroethene	1.54		0.198	0.495	400	09/21/2018 14:38	<a href="#">WG1169487</a>
Trichlorofluoromethane	U		0.000618	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2,3-Trichloropropane	U		0.00631	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2,4-Trimethylbenzene	0.0427		0.00143	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2,3-Trimethylbenzene	0.0149		0.00142	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,3,5-Trimethylbenzene	0.0148		0.00134	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Vinyl acetate	U		0.00435	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Vinyl chloride	U		0.000845	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Xylenes, Total	0.0121		0.00591	0.00804	1	09/20/2018 18:29	<a href="#">WG1168763</a>
(S) Toluene-d8	114			75.0-131		09/20/2018 18:29	<a href="#">WG1168763</a>
(S) Toluene-d8	101			75.0-131		09/21/2018 14:38	<a href="#">WG1169487</a>
(S) Dibromofluoromethane	91.9			65.0-129		09/20/2018 18:29	<a href="#">WG1168763</a>
(S) Dibromofluoromethane	103			65.0-129		09/21/2018 14:38	<a href="#">WG1169487</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/20/2018 18:29	<a href="#">WG1168763</a>
(S) 4-Bromofluorobenzene	109			67.0-138		09/21/2018 14:38	<a href="#">WG1169487</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1025469-01 WG1168763, WG1169487: Not all compounds reportable from 1x dilution.

L1025469-01 WG1168763, WG1169487: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	09/18/2018 10:05	<a href="#">WG1166857</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0164	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Acrylonitrile	U		0.00227	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Benzene	U		0.000478	0.00120	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Bromobenzene	U		0.00125	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Bromodichloromethane	U		0.376	1.20	432	09/21/2018 14:58	<a href="#">WG1169487</a>
Bromochloromethane	U		0.00135	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Bromoform	U		0.00715	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Bromomethane	U		1.77	5.98	432	09/21/2018 14:58	<a href="#">WG1169487</a>
n-Butylbenzene	0.00998	J	0.00459	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
sec-Butylbenzene	0.00336	J	0.00302	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
tert-Butylbenzene	U		0.00185	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Carbon disulfide	U		0.00485	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Carbon tetrachloride	U		0.00129	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chlorobenzene	U		0.000685	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chlorodibromomethane	U		0.000538	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chloroethane	U		0.00129	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chloroform	U		0.000496	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chloromethane	U		0.00166	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
2-Chlorotoluene	U		0.00110	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
4-Chlorotoluene	U		0.00135	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dibromoethane	U		0.000628	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Dibromomethane	U		0.00120	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dichlorobenzene	U		0.00174	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,3-Dichlorobenzene	U		0.00204	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,4-Dichlorobenzene	U	J4	0.00236	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Dichlorodifluoromethane	U		0.000977	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1-Dichloroethane	U		0.000687	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dichloroethane	U		0.000568	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1-Dichloroethene	0.0198		0.000598	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
cis-1,2-Dichloroethene	2.62		0.330	1.20	432	09/21/2018 14:58	<a href="#">WG1169487</a>
trans-1,2-Dichloroethene	0.0228		0.00170	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dichloropropane	U		0.00152	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1-Dichloropropene	U		0.000837	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,3-Dichloropropane	U		0.00209	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
cis-1,3-Dichloropropene	U	J4	0.000810	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
trans-1,3-Dichloropropene	U		0.00183	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
trans-1,4-Dichloro-2-butene	U		0.00167	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
2,2-Dichloropropane	U		0.000947	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Di-isopropyl ether	U		0.000418	0.00120	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Ethylbenzene	U		0.253	1.20	432	09/21/2018 14:58	<a href="#">WG1169487</a>
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
2-Hexanone	U		0.0120	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
n-Hexane	U		0.00126	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Iodomethane	U		0.00723	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Isopropylbenzene	0.00149	J	0.00103	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
p-Isopropyltoluene	U		0.00279	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
2-Butanone (MEK)	U		0.0149	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Methylene Chloride	0.0112	B J	0.00794	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/10/18 10:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Naphthalene	0.00881	<u>J</u>	0.00373	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
n-Propylbenzene	0.00761		0.00141	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Styrene	U	<u>JO J4</u>	0.00326	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,2,2-Tetrachloroethane	U	<u>J4</u>	0.000466	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,2-Trichlorotrifluoroethane	U		0.000807	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Tetrachloroethene	309		0.334	1.20	432	09/21/2018 14:58	<a href="#">WG1169487</a>
Toluene	U		0.598	2.39	432	09/21/2018 14:58	<a href="#">WG1169487</a>
1,2,3-Trichlorobenzene	U		0.000747	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2,4-Trichlorobenzene	U		0.00576	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,1-Trichloroethane	U		0.000329	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,2-Trichloroethane	U		0.00106	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Trichloroethene	2.12		0.191	0.478	432	09/21/2018 14:58	<a href="#">WG1169487</a>
Trichlorofluoromethane	U		0.000598	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2,3-Trichloropropane	U		0.00610	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2,4-Trimethylbenzene	0.0481		0.00138	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2,3-Trimethylbenzene	0.0159		0.00137	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,3,5-Trimethylbenzene	0.0170		0.00129	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Vinyl acetate	U		0.00421	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Vinyl chloride	U		0.000817	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Xylenes, Total	0.0127		0.00571	0.00777	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
(S) Toluene-d8	114			75.0-131		09/20/2018 18:52	<a href="#">WG1168763</a>
(S) Toluene-d8	109			75.0-131		09/21/2018 14:58	<a href="#">WG1169487</a>
(S) Dibromofluoromethane	92.3			65.0-129		09/20/2018 18:52	<a href="#">WG1168763</a>
(S) Dibromofluoromethane	103			65.0-129		09/21/2018 14:58	<a href="#">WG1169487</a>
(S) 4-Bromofluorobenzene	102			67.0-138		09/20/2018 18:52	<a href="#">WG1168763</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/21/2018 14:58	<a href="#">WG1169487</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1025469-02 WG1168763, WG1169487: Not all compounds reportable from 1x dilution.

L1025469-02 WG1168763, WG1169487: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	09/18/2018 10:05	<a href="#">WG1166857</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00210	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Benzene	U		0.000442	0.00111	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromobenzene	U		0.00116	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000872	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00125	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromoform	U		0.00661	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromomethane	U		0.00409	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00425	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00280	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00171	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00449	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00119	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000634	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chlorodibromomethane	0.000680	<u>J</u>	0.000498	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chloroethane	U		0.00119	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chloroform	U		0.000459	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chloromethane	U		0.00154	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00102	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00125	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00564	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000581	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Dibromomethane	U		0.00111	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00160	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00188	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00218	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000905	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000636	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000525	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000553	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.699		0.000763	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00418	<u>J JO</u>	0.00158	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.0281	0.111	20	09/20/2018 17:33	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000774	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00194	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000750	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	<u>JO J4</u>	0.00169	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00155	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
2,2-Dichloropropane	0.00144	<u>J JO</u>	0.000877	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000387	0.00111	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000586	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0140	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
2-Hexanone	U		0.0111	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
n-Hexane	U	<u>J4</u>	0.0234	0.111	20	09/20/2018 17:33	<a href="#">WG1168808</a>
Iodomethane	U		0.00669	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000955	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	<u>J4</u>	0.00258	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.277	0.553	20	09/20/2018 17:33	<a href="#">WG1168808</a>
Methylene Chloride	U		0.00734	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/10/18 11:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Naphthalene	U		0.00345	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00131	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Styrene	U	J4	0.0604	0.277	20	09/20/2018 17:33	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	JO J4	0.000553	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000431	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Tetrachloroethene	12.3		0.0155	0.0553	20	09/20/2018 17:33	<a href="#">WG1168808</a>
Toluene	0.00148	J	0.00138	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000691	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000304	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000977	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Trichloroethene	0.128		0.000442	0.00111	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000553	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00564	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00194	J	0.00128	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	U		0.00119	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Vinyl acetate	U	JO	0.00389	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Vinyl chloride	0.0312		0.000755	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00529	0.00719	1	09/20/2018 01:04	<a href="#">WG1168529</a>
(S) Toluene-d8	103			75.0-131		09/20/2018 01:04	<a href="#">WG1168529</a>
(S) Toluene-d8	107			75.0-131		09/20/2018 17:33	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	105			65.0-129		09/20/2018 01:04	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	106			65.0-129		09/20/2018 17:33	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/20/2018 01:04	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	86.6			67.0-138		09/20/2018 17:33	<a href="#">WG1168808</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1025469-03 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-03 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.3		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0153	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00213	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Benzene	U		0.000448	0.00112	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromobenzene	U		0.00118	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000882	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00126	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromoform	U		0.00669	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromomethane	U		0.00414	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00430	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00283	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00173	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00454	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00121	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000641	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000504	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chloroethane	U		0.00121	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chloroform	U		0.000465	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chloromethane	U		0.00156	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00103	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00126	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	<a href="#">JO</a>	0.00571	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000588	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Dibromomethane	U		0.00112	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00162	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00190	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00221	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000916	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000644	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000532	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000560	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.282		0.000772	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00239	<a href="#">J JO</a>	0.00160	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.0284	0.112	20	09/20/2018 17:53	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000784	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00196	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000759	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	<a href="#">JO J4</a>	0.00171	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	<a href="#">JO</a>	0.00157	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	<a href="#">JO</a>	0.000888	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000392	0.00112	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000593	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
2-Hexanone	U		0.0112	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
n-Hexane	U	<a href="#">J4</a>	0.0237	0.112	20	09/20/2018 17:53	<a href="#">WG1168808</a>
Iodomethane	U		0.00677	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000966	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	<a href="#">J4</a>	0.00261	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.280	0.560	20	09/20/2018 17:53	<a href="#">WG1168808</a>
Methylene Chloride	U		0.00743	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 09/10/18 11:55

L1025469

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Naphthalene	U		0.00349	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00132	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Styrene	U	J4	0.0611	0.280	20	09/20/2018 17:53	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	JO J4	0.000560	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000437	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000756	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Tetrachloroethene	18.6		0.0157	0.0560	20	09/20/2018 17:53	<a href="#">WG1168808</a>
Toluene	0.00223	J	0.00140	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000700	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00540	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000308	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000988	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Trichloroethene	0.178		0.000448	0.00112	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000560	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00571	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00436	J	0.00130	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00129	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	0.00144	J	0.00121	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Vinyl acetate	U	JO	0.00394	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Vinyl chloride	0.0297		0.000764	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00535	0.00728	1	09/20/2018 01:24	<a href="#">WG1168529</a>
(S) Toluene-d8	99.3			75.0-131		09/20/2018 01:24	<a href="#">WG1168529</a>
(S) Toluene-d8	105			75.0-131		09/20/2018 17:53	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	103			65.0-129		09/20/2018 01:24	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	108			65.0-129		09/20/2018 17:53	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	109			67.0-138		09/20/2018 01:24	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	93.8			67.0-138		09/20/2018 17:53	<a href="#">WG1168808</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1025469-04 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-04 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0144	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00199	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Benzene	U		0.000419	0.00105	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromobenzene	U		0.00110	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000826	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00118	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromoform	U		0.00627	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromomethane	U		0.00388	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00402	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00265	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00162	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00425	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00113	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000600	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000471	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chloroethane	0.0188		0.00113	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chloroform	U		0.000435	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chloromethane	U		0.00146	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.000964	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00118	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	<a href="#">JO</a>	0.00534	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000550	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Dibromomethane	U		0.00105	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00152	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00178	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00206	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000857	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000602	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000498	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000524	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.224		0.000723	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00591	<a href="#">JO</a>	0.00150	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00266	0.0105	2	09/20/2018 16:16	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000733	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00183	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000710	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	<a href="#">JO J4</a>	0.00160	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	<a href="#">JO</a>	0.00147	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
2,2-Dichloropropane	0.000981	<a href="#">J JO</a>	0.000831	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000367	0.00105	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000555	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0133	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
2-Hexanone	U		0.0105	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
n-Hexane	0.00489	<a href="#">J J4</a>	0.00222	0.0105	2	09/20/2018 16:16	<a href="#">WG1168808</a>
Iodomethane	U		0.00634	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000904	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	<a href="#">J4</a>	0.00244	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0262	0.0524	2	09/20/2018 16:16	<a href="#">WG1168808</a>
Methylene Chloride	0.0112	<a href="#">B J</a>	0.00696	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/11/18 08:55

L1025469

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000309	0.00105	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Naphthalene	U		0.00327	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00124	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Styrene	U	<a href="#">JO J4</a>	0.00572	0.0262	2	09/20/2018 16:16	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	<a href="#">JO J4</a>	0.000524	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000409	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000707	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Tetrachloroethene	0.712		0.00147	0.00524	2	09/20/2018 16:16	<a href="#">WG1168808</a>
Toluene	U		0.00131	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000655	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00505	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000288	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000925	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Trichloroethene	0.0173		0.000419	0.00105	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000524	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00534	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	U		0.00122	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00120	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	U		0.00113	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Vinyl acetate	U	<a href="#">JO</a>	0.00369	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Vinyl chloride	0.0146		0.000716	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00501	0.00681	1	09/20/2018 01:44	<a href="#">WG1168529</a>
(S) Toluene-d8	105			75.0-131		09/20/2018 01:44	<a href="#">WG1168529</a>
(S) Toluene-d8	117			75.0-131		09/20/2018 16:16	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	103			65.0-129		09/20/2018 01:44	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	93.4			65.0-129		09/20/2018 16:16	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/20/2018 01:44	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	86.9			67.0-138		09/20/2018 16:16	<a href="#">WG1168808</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.5		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00215	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Benzene	U		0.000452	0.00113	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromobenzene	U		0.00119	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000890	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00128	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromoform	U		0.00676	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromomethane	U		0.00418	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00434	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00286	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00175	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00459	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00122	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000647	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000508	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chloroethane	0.0149		0.00122	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chloroform	U		0.000469	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chloromethane	U		0.00157	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00104	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00128	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00576	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000593	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Dibromomethane	U		0.00113	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00164	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00192	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00223	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000924	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000650	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000537	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1-Dichloroethene	0.0365		0.000565	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	3.90		0.0312	0.113	40	09/20/2018 18:12	<a href="#">WG1168808</a>
trans-1,2-Dichloroethene	0.0111	<u>JO</u>	0.00162	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.0574	0.226	40	09/20/2018 18:12	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000791	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00198	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000766	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	<u>JO J4</u>	0.00173	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00158	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	<u>JO</u>	0.000896	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000395	0.00113	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Ethylbenzene	0.000834	<u>J</u>	0.000599	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
2-Hexanone	U		0.0113	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
n-Hexane	U	<u>J4</u>	0.0479	0.226	40	09/20/2018 18:12	<a href="#">WG1168808</a>
Iodomethane	U		0.00684	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000975	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	<u>J4</u>	0.00263	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.565	1.13	40	09/20/2018 18:12	<a href="#">WG1168808</a>
Methylene Chloride	U		0.00750	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/11/18 09:50

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Naphthalene	U		0.00353	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
n-Propylbenzene	0.00287	J	0.00133	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Styrene	U	J4	0.123	0.565	40	09/20/2018 18:12	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	JO J4	0.000565	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000441	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Tetrachloroethene	56.7		0.0316	0.113	40	09/20/2018 18:12	<a href="#">WG1168808</a>
Toluene	0.00389	J	0.00141	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000706	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000311	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000998	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Trichloroethene	4.36		0.0181	0.0452	40	09/20/2018 18:12	<a href="#">WG1168808</a>
Trichlorofluoromethane	U		0.000565	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00576	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00887		0.00131	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	0.00267	J	0.00130	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	0.00398	J	0.00122	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Vinyl acetate	U	JO	0.00398	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Vinyl chloride	0.0180		0.000772	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00540	0.00734	1	09/20/2018 02:04	<a href="#">WG1168529</a>
(S) Toluene-d8	106			75.0-131		09/20/2018 02:04	<a href="#">WG1168529</a>
(S) Toluene-d8	105			75.0-131		09/20/2018 18:12	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	101			65.0-129		09/20/2018 02:04	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	110			65.0-129		09/20/2018 18:12	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	108			67.0-138		09/20/2018 02:04	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	83.7			67.0-138		09/20/2018 18:12	<a href="#">WG1168808</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1025469-06 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-06 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	09/17/2018 15:11	<a href="#">WG1166858</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0154	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00213	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Benzene	U		0.000449	0.00112	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromobenzene	U		0.00118	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000884	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00127	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromoform	U		0.00671	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromomethane	U		0.00415	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00431	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00284	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00174	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00456	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00121	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000643	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000505	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chloroethane	U		0.00121	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chloroform	U		0.000466	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chloromethane	U		0.00156	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00103	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00127	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	<a href="#">JO</a>	0.00572	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000589	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Dibromomethane	U		0.00112	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00163	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00191	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00221	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000918	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000645	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000533	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000561	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.244		0.000774	0.00281	1	09/20/2018 16:35	<a href="#">WG1168808</a>
trans-1,2-Dichloroethene	0.00171	<a href="#">J JO</a>	0.00160	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00143	0.00561	1	09/20/2018 16:35	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000786	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00196	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	<a href="#">JO J4</a>	0.00172	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	<a href="#">JO</a>	0.00157	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	<a href="#">JO</a>	0.000890	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000393	0.00112	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000595	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
2-Hexanone	U		0.0112	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
n-Hexane	0.00251	<a href="#">J J4</a>	0.00119	0.00561	1	09/20/2018 16:35	<a href="#">WG1168808</a>
Iodomethane	U		0.00679	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000969	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	<a href="#">J4</a>	0.00262	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0140	0.0281	1	09/20/2018 16:35	<a href="#">WG1168808</a>
Methylene Chloride	0.0102	<a href="#">B J</a>	0.00745	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/11/18 11:00

L1025469

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Naphthalene	U		0.00350	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00132	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Styrene	U	<u>JO J4</u>	0.00306	0.0140	1	09/20/2018 16:35	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	<u>JO J4</u>	0.000561	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Tetrachloroethene	1.60		0.000786	0.00281	1	09/20/2018 16:35	<a href="#">WG1168808</a>
Toluene	0.00166	<u>J</u>	0.00140	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000701	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000991	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Trichloroethene	0.100		0.000449	0.00112	1	09/20/2018 16:35	<a href="#">WG1168808</a>
Trichlorofluoromethane	U		0.000561	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00572	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Vinyl acetate	U	<u>JO</u>	0.00395	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Vinyl chloride	U		0.000767	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00536	0.00730	1	09/20/2018 02:24	<a href="#">WG1168529</a>
(S) Toluene-d8	104			75.0-131		09/20/2018 02:24	<a href="#">WG1168529</a>
(S) Toluene-d8	119			75.0-131		09/20/2018 16:35	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	102			65.0-129		09/20/2018 02:24	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	87.3			65.0-129		09/20/2018 16:35	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/20/2018 02:24	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	88.7			67.0-138		09/20/2018 16:35	<a href="#">WG1168808</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	09/17/2018 15:11	<a href="#">WG1166858</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0671		0.0154	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00213	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Benzene	0.000525	<u>J</u>	0.000449	0.00112	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromobenzene	U		0.00118	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000884	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00127	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromoform	U		0.00671	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromomethane	U		0.00415	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00431	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00284	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00174	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00455	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00121	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000643	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000505	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chloroethane	0.0282		0.00121	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chloroform	U		0.000466	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chloromethane	U		0.00156	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00103	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00127	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00572	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000589	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Dibromomethane	U		0.00112	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00163	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00191	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00221	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000918	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000645	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000533	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000561	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.00943		0.000774	0.00280	1	09/20/2018 17:14	<a href="#">WG1168808</a>
trans-1,2-Dichloroethene	U	<u>JO</u>	0.00160	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00142	0.00561	1	09/20/2018 17:14	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000785	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00196	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000761	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	0.00600	<u>JO J4</u>	0.00172	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00157	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
2,2-Dichloropropane	0.00171	<u>J JO</u>	0.000890	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000393	0.00112	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000595	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
2-Hexanone	U		0.0112	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
n-Hexane	0.00162	<u>J J4</u>	0.00119	0.00561	1	09/20/2018 17:14	<a href="#">WG1168808</a>
Iodomethane	U		0.00679	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000968	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	<u>J4</u>	0.00261	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0140	0.0280	1	09/20/2018 17:14	<a href="#">WG1168808</a>
Methylene Chloride	0.00858	<u>B J</u>	0.00745	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/11/18 12:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000562	J	0.000331	0.00112	1	09/20/2018 02:44	WG1168529
Naphthalene	U		0.00350	0.0140	1	09/20/2018 02:44	WG1168529
n-Propylbenzene	U		0.00132	0.00561	1	09/20/2018 02:44	WG1168529
Styrene	U	J4	0.00306	0.0140	1	09/20/2018 17:14	WG1168808
1,1,1,2-Tetrachloroethane	U	JO J4	0.000561	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2,2-Tetrachloroethane	U		0.000438	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2-Trichlorotrifluoroethane	U		0.000757	0.00280	1	09/20/2018 02:44	WG1168529
Tetrachloroethene	0.0728		0.000785	0.00280	1	09/20/2018 17:14	WG1168808
Toluene	0.00304	J	0.00140	0.00561	1	09/20/2018 02:44	WG1168529
1,2,3-Trichlorobenzene	U		0.000701	0.00280	1	09/20/2018 02:44	WG1168529
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	09/20/2018 02:44	WG1168529
1,1,1-Trichloroethane	U		0.000309	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2-Trichloroethane	U		0.000991	0.00280	1	09/20/2018 02:44	WG1168529
Trichloroethene	0.00797		0.000449	0.00112	1	09/20/2018 17:14	WG1168808
Trichlorofluoromethane	U		0.000561	0.00280	1	09/20/2018 02:44	WG1168529
1,2,3-Trichloropropane	U		0.00572	0.0140	1	09/20/2018 02:44	WG1168529
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	09/20/2018 02:44	WG1168529
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	09/20/2018 02:44	WG1168529
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	09/20/2018 02:44	WG1168529
Vinyl acetate	U	JO	0.00395	0.0140	1	09/20/2018 02:44	WG1168529
Vinyl chloride	U		0.000766	0.00280	1	09/20/2018 02:44	WG1168529
Xylenes, Total	U		0.00536	0.00729	1	09/20/2018 02:44	WG1168529
(S) Toluene-d8	94.8			75.0-131		09/20/2018 02:44	WG1168529
(S) Toluene-d8	118			75.0-131		09/20/2018 17:14	WG1168808
(S) Dibromofluoromethane	107			65.0-129		09/20/2018 02:44	WG1168529
(S) Dibromofluoromethane	88.7			65.0-129		09/20/2018 17:14	WG1168808
(S) 4-Bromofluorobenzene	106			67.0-138		09/20/2018 02:44	WG1168529
(S) 4-Bromofluorobenzene	94.9			67.0-138		09/20/2018 17:14	WG1168808

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00209	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Benzene	0.000604	J	0.000441	0.00110	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromobenzene	U		0.00116	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000868	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00124	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromoform	U		0.00659	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromomethane	U		0.00408	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00423	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00279	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00171	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00447	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00119	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000631	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000496	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chloroethane	U		0.00119	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chloroform	U		0.000457	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chloromethane	U		0.00153	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00101	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00124	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	JO	0.00562	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000578	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Dibromomethane	U		0.00110	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00160	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00187	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00217	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000901	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000633	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000523	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1-Dichloroethene	0.00762		0.000551	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.0189		0.000760	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00742	JO	0.00158	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00140	0.00551	1	09/20/2018 23:35	<a href="#">WG1169029</a>
1,1-Dichloropropene	U		0.000771	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00193	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	0.00731	JO J4	0.00169	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	JO	0.00154	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	JO	0.000874	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000386	0.00110	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000584	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
2-Hexanone	U		0.0110	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
n-Hexane	0.00146	J	0.00117	0.00551	1	09/21/2018 15:32	<a href="#">WG1169450</a>
Iodomethane	U		0.00666	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000951	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	J4	0.00257	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0138	0.0275	1	09/20/2018 23:35	<a href="#">WG1169029</a>
Methylene Chloride	U		0.00731	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/11/18 12:35

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Naphthalene	U		0.00344	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00130	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Styrene	U		0.00301	0.0138	1	09/20/2018 23:35	<a href="#">WG1169029</a>
1,1,1,2-Tetrachloroethane	U	<u>JO J4</u>	0.000551	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000430	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Tetrachloroethene	2.31		0.000771	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Toluene	0.00291	<u>J</u>	0.00138	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000689	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000303	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000973	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Trichloroethene	0.502		0.000441	0.00110	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000551	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00562	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Vinyl acetate	U	<u>JO</u>	0.00388	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Vinyl chloride	U		0.000752	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00527	0.00716	1	09/20/2018 03:04	<a href="#">WG1168529</a>
(S) Toluene-d8	105			75.0-131		09/20/2018 03:04	<a href="#">WG1168529</a>
(S) Toluene-d8	102			75.0-131		09/20/2018 23:35	<a href="#">WG1169029</a>
(S) Toluene-d8	116			75.0-131		09/21/2018 15:32	<a href="#">WG1169450</a>
(S) Dibromofluoromethane	101			65.0-129		09/20/2018 03:04	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	107			65.0-129		09/20/2018 23:35	<a href="#">WG1169029</a>
(S) Dibromofluoromethane	91.4			65.0-129		09/21/2018 15:32	<a href="#">WG1169450</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/20/2018 03:04	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/20/2018 23:35	<a href="#">WG1169029</a>
(S) 4-Bromofluorobenzene	85.2			67.0-138		09/21/2018 15:32	<a href="#">WG1169450</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	09/17/2018 15:11	<a href="#">WG1166858</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00215	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Benzene	0.000701	<u>J</u>	0.000453	0.00113	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromobenzene	U		0.00119	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000893	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00128	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromoform	U		0.00677	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromomethane	U		0.00419	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00435	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00287	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00176	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00460	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00122	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000649	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000510	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chloroethane	0.0244		0.00122	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chloroform	U		0.000470	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chloromethane	U		0.00157	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00104	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00128	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00578	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000595	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Dibromomethane	U		0.00113	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00164	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00193	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00223	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000927	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000651	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000538	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1-Dichloroethene	0.00354		0.000566	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.0212		0.000782	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00528	<u>J JO</u>	0.00162	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.0116	0.0453	8	09/20/2018 23:53	<a href="#">WG1169029</a>
1,1-Dichloropropene	U		0.000793	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00198	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	<u>JO J4</u>	0.00173	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00159	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
2,2-Dichloropropane	0.00316	<u>JO</u>	0.000898	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000396	0.00113	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Ethylbenzene	0.000606	<u>J</u>	0.000600	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
2-Hexanone	U		0.0113	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
n-Hexane	U		0.00961	0.0453	8	09/21/2018 15:52	<a href="#">WG1169450</a>
Iodomethane	U		0.00685	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000978	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	<u>J4</u>	0.00264	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.113	0.227	8	09/20/2018 23:53	<a href="#">WG1169029</a>
Methylene Chloride	0.00858	<u>B J</u>	0.00752	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/11/18 14:30

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.00135		0.000334	0.00113	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Naphthalene	U		0.00353	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00134	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Styrene	U		0.0247	0.113	8	09/20/2018 23:53	<a href="#">WG1169029</a>
1,1,1,2-Tetrachloroethane	U	<u>JO J4</u>	0.000566	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000765	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Tetrachloroethene	5.03		0.00634	0.0227	8	09/20/2018 23:53	<a href="#">WG1169029</a>
Toluene	0.00318	<u>L</u>	0.00142	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	0.00174	<u>L</u>	0.000708	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000312	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.00100	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Trichloroethene	0.616		0.000453	0.00113	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000566	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00578	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00133	<u>L</u>	0.00131	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	0.00133	<u>L</u>	0.00122	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Vinyl acetate	U	<u>JO</u>	0.00399	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Vinyl chloride	U		0.000774	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00541	0.00736	1	09/20/2018 03:24	<a href="#">WG1168529</a>
(S) Toluene-d8	108			75.0-131		09/20/2018 03:24	<a href="#">WG1168529</a>
(S) Toluene-d8	100			75.0-131		09/20/2018 23:53	<a href="#">WG1169029</a>
(S) Toluene-d8	108			75.0-131		09/21/2018 15:52	<a href="#">WG1169450</a>
(S) Dibromofluoromethane	102			65.0-129		09/20/2018 03:24	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	109			65.0-129		09/20/2018 23:53	<a href="#">WG1169029</a>
(S) Dibromofluoromethane	107			65.0-129		09/21/2018 15:52	<a href="#">WG1169450</a>
(S) 4-Bromofluorobenzene	108			67.0-138		09/20/2018 03:24	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/20/2018 23:53	<a href="#">WG1169029</a>
(S) 4-Bromofluorobenzene	85.4			67.0-138		09/21/2018 15:52	<a href="#">WG1169450</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1025469-10 WG1168529, WG1169029: Not all compounds reportable from 1x dilution.  
 L1025469-10 WG1168529, WG1169029: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0590		0.0147	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00203	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Benzene	0.000455	J	0.000428	0.00107	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromobenzene	U		0.00112	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000843	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00121	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromoform	U		0.00640	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromomethane	U		0.00396	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00411	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00271	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00166	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00434	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00116	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000613	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000482	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chloroethane	0.0265		0.00116	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chloroform	U		0.000444	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chloromethane	U		0.00149	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.000984	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00121	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	JO	0.00546	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000562	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Dibromomethane	U		0.00107	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00155	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00182	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00211	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000875	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000615	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000508	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1-Dichloroethene	0.00469		0.000535	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.242		0.000738	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	U	JO	0.00153	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00544	0.0214	4	09/21/2018 00:12	<a href="#">WG1169029</a>
1,1-Dichloropropene	U		0.000749	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00187	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000725	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	JO J4	0.00164	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	JO	0.00150	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	JO	0.000849	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000375	0.00107	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Ethylbenzene	0.000628	J	0.000567	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
2-Hexanone	U		0.0107	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
n-Hexane	U		0.00454	0.0214	4	09/21/2018 16:11	<a href="#">WG1169450</a>
Iodomethane	U		0.00647	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000923	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	J4	0.00249	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0535	0.107	4	09/21/2018 00:12	<a href="#">WG1169029</a>
Methylene Chloride	0.00833	B J	0.00710	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 09/11/18 16:30

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.00144		0.000316	0.00107	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Naphthalene	U		0.00334	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00126	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Styrene	U		0.0117	0.0535	4	09/21/2018 00:12	<a href="#">WG1169029</a>
1,1,1,2-Tetrachloroethane	U	<u>JO J4</u>	0.000535	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000417	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000722	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Tetrachloroethene	2.32		0.000749	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Toluene	0.00333	<u>J</u>	0.00134	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000669	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000294	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000945	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Trichloroethene	0.282		0.000428	0.00107	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000535	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00546	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00271	<u>J</u>	0.00124	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	0.00118	<u>J</u>	0.00116	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Vinyl acetate	U	<u>JO</u>	0.00377	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Vinyl chloride	0.00390		0.000731	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00511	0.00696	1	09/20/2018 03:43	<a href="#">WG1168529</a>
(S) Toluene-d8	90.9			75.0-131		09/20/2018 03:43	<a href="#">WG1168529</a>
(S) Toluene-d8	94.4			75.0-131		09/21/2018 00:12	<a href="#">WG1169029</a>
(S) Toluene-d8	108			75.0-131		09/21/2018 16:11	<a href="#">WG1169450</a>
(S) Dibromofluoromethane	104			65.0-129		09/20/2018 03:43	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	114			65.0-129		09/21/2018 00:12	<a href="#">WG1169029</a>
(S) Dibromofluoromethane	105			65.0-129		09/21/2018 16:11	<a href="#">WG1169450</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/20/2018 03:43	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/21/2018 00:12	<a href="#">WG1169029</a>
(S) 4-Bromofluorobenzene	93.0			67.0-138		09/21/2018 16:11	<a href="#">WG1169450</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Acrylonitrile	U		0.873	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Benzene	U		0.0896	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromobenzene	U		0.133	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromodichloromethane	U		0.0800	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromochloromethane	U		0.145	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromoform	U		0.186	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromomethane	U		0.157	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
n-Butylbenzene	U		0.143	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
sec-Butylbenzene	U		0.134	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
tert-Butylbenzene	U		0.183	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Carbon disulfide	U		0.101	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Carbon tetrachloride	U		0.159	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chlorobenzene	U		0.140	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chlorodibromomethane	U		0.128	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chloroethane	U		0.141	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chloroform	U		0.0860	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chloromethane	U		0.153	1.25	1	09/14/2018 16:28	<a href="#">WG1166389</a>
2-Chlorotoluene	U		0.111	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
4-Chlorotoluene	U		0.0972	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dibromoethane	U		0.193	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Dibromomethane	U		0.117	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Dichlorodifluoromethane	U		0.127	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1-Dichloroethane	U		0.114	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dichloroethane	U		0.108	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1-Dichloroethene	U		0.188	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dichloropropane	U		0.190	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1-Dichloropropene	U		0.128	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,3-Dichloropropane	U		0.147	1.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
2,2-Dichloropropane	U		0.0929	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Di-isopropyl ether	U		0.0924	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Ethylbenzene	U		0.158	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
2-Hexanone	U		0.757	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
n-Hexane	U		0.305	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Iodomethane	U		0.377	10.0	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Isopropylbenzene	U		0.126	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
p-Isopropyltoluene	U		0.138	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
2-Butanone (MEK)	U		1.28	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Methylene Chloride	U		1.07	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Methyl tert-butyl ether	U		0.102	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Naphthalene	U		0.174	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
n-Propylbenzene	U		0.162	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Styrene	U		0.117	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/10/18 00:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Tetrachloroethene	U		0.199	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Toluene	U		0.412	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Trichloroethene	U		0.153	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Trichlorofluoromethane	U		0.130	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Vinyl acetate	U		0.645	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Vinyl chloride	U		0.118	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Xylenes, Total	U		0.316	1.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
(S) Toluene-d8	103			80.0-120		09/14/2018 16:28	<a href="#">WG1166389</a>
(S) Dibromofluoromethane	101			75.0-120		09/14/2018 16:28	<a href="#">WG1166389</a>
(S) 4-Bromofluorobenzene	90.1			77.0-126		09/14/2018 16:28	<a href="#">WG1166389</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3343054-1 09/18/18 10:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1025469-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1025469-03 09/18/18 10:05 • (DUP) R3343054-3 09/18/18 10:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	90.4	90.1	1	0.379		10

Laboratory Control Sample (LCS)

(LCS) R3343054-2 09/18/18 10:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3342670-1 09/17/18 15:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1025469-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1025469-05 09/17/18 15:11 • (DUP) R3342670-3 09/17/18 15:11

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	95.4	94.9	1	0.571		10

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3342670-2 09/17/18 15:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

9 Sc



Method Blank (MB)

(MB) R3342279-2 09/14/18 13:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3342279-2 09/14/18 13:10

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	100			80.0-120
(S) Dibromofluoromethane	102			75.0-120
(S) 4-Bromofluorobenzene	90.6			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS)

(LCS) R3342279-1 09/14/18 12:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	125	117	93.5	19.0-160	
Acrylonitrile	125	109	87.5	55.0-149	
Benzene	25.0	22.6	90.5	70.0-123	
Bromobenzene	25.0	22.3	89.3	73.0-121	
Bromodichloromethane	25.0	24.7	98.6	75.0-120	
Bromochloromethane	25.0	25.5	102	76.0-122	
Bromoform	25.0	25.9	103	68.0-132	
Bromomethane	25.0	26.0	104	10.0-160	
n-Butylbenzene	25.0	22.7	90.7	73.0-125	
sec-Butylbenzene	25.0	24.0	96.1	75.0-125	
tert-Butylbenzene	25.0	23.3	93.0	76.0-124	
Carbon disulfide	25.0	21.3	85.4	61.0-128	
Carbon tetrachloride	25.0	24.6	98.4	68.0-126	
Chlorobenzene	25.0	25.2	101	80.0-121	
Chlorodibromomethane	25.0	27.1	108	77.0-125	
Chloroethane	25.0	21.4	85.7	47.0-150	
Chloroform	25.0	23.7	94.6	73.0-120	
Chloromethane	25.0	23.7	94.6	41.0-142	
2-Chlorotoluene	25.0	23.7	95.0	76.0-123	
4-Chlorotoluene	25.0	23.3	93.3	75.0-122	
1,2-Dibromo-3-Chloropropane	25.0	24.4	97.6	58.0-134	
1,2-Dibromoethane	25.0	26.1	104	80.0-122	
Dibromomethane	25.0	25.2	101	80.0-120	
1,2-Dichlorobenzene	25.0	25.1	100	79.0-121	
1,3-Dichlorobenzene	25.0	25.9	104	79.0-120	
1,4-Dichlorobenzene	25.0	23.2	92.6	79.0-120	
Dichlorodifluoromethane	25.0	32.5	130	51.0-149	
1,1-Dichloroethane	25.0	21.1	84.4	70.0-126	
1,2-Dichloroethane	25.0	28.0	112	70.0-128	
1,1-Dichloroethene	25.0	20.8	83.3	71.0-124	
cis-1,2-Dichloroethene	25.0	21.9	87.6	73.0-120	
trans-1,2-Dichloroethene	25.0	23.1	92.4	73.0-120	
1,2-Dichloropropane	25.0	22.4	89.5	77.0-125	
1,1-Dichloropropene	25.0	23.2	92.8	74.0-126	
1,3-Dichloropropane	25.0	25.5	102	80.0-120	
cis-1,3-Dichloropropene	25.0	25.3	101	80.0-123	
trans-1,3-Dichloropropene	25.0	25.8	103	78.0-124	
trans-1,4-Dichloro-2-butene	25.0	29.8	119	33.0-144	
2,2-Dichloropropane	25.0	25.3	101	58.0-130	
Di-isopropyl ether	25.0	22.7	90.8	58.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3342279-1 09/14/18 12:30

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	25.0	25.2	101	79.0-123	
Hexachloro-1,3-butadiene	25.0	23.0	91.9	54.0-138	
2-Hexanone	125	118	94.4	67.0-149	
n-Hexane	25.0	22.9	91.8	57.0-133	
Iodomethane	125	119	94.8	33.0-147	
Isopropylbenzene	25.0	22.4	89.7	76.0-127	
p-Isopropyltoluene	25.0	24.1	96.6	76.0-125	
2-Butanone (MEK)	125	112	89.4	44.0-160	
Methylene Chloride	25.0	23.2	92.6	67.0-120	
4-Methyl-2-pentanone (MIBK)	125	123	98.6	68.0-142	
Methyl tert-butyl ether	25.0	23.5	94.0	68.0-125	
Naphthalene	25.0	21.5	86.1	54.0-135	
n-Propylbenzene	25.0	23.6	94.3	77.0-124	
Styrene	25.0	22.1	88.5	73.0-130	
1,1,1,2-Tetrachloroethane	25.0	25.4	102	75.0-125	
1,1,2,2-Tetrachloroethane	25.0	22.0	87.8	65.0-130	
1,1,2-Trichlorotrifluoroethane	25.0	24.4	97.6	69.0-132	
Tetrachloroethene	25.0	25.9	104	72.0-132	
Toluene	25.0	24.3	97.4	79.0-120	
1,2,3-Trichlorobenzene	25.0	24.2	96.7	50.0-138	
1,2,4-Trichlorobenzene	25.0	25.9	104	57.0-137	
1,1,1-Trichloroethane	25.0	26.1	104	73.0-124	
1,1,2-Trichloroethane	25.0	25.8	103	80.0-120	
Trichloroethene	25.0	23.8	95.3	78.0-124	
Trichlorofluoromethane	25.0	28.0	112	59.0-147	
1,2,3-Trichloropropane	25.0	24.2	96.9	73.0-130	
1,2,4-Trimethylbenzene	25.0	23.9	95.6	76.0-121	
1,2,3-Trimethylbenzene	25.0	24.5	97.9	77.0-120	
1,3,5-Trimethylbenzene	25.0	21.9	87.6	76.0-122	
Vinyl acetate	125	149	119	11.0-160	
Vinyl chloride	25.0	22.6	90.5	67.0-131	
Xylenes, Total	75.0	73.3	97.7	79.0-123	
<i>(S) Toluene-d8</i>			103	80.0-120	
<i>(S) Dibromofluoromethane</i>			101	75.0-120	
<i>(S) 4-Bromofluorobenzene</i>			93.0	77.0-126	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3343394-2 09/19/18 22:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3343394-2 09/19/18 22:07

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Hexachloro-1,3-butadiene	U		0.0127	0.0250
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
Methylene Chloride	0.0105	J	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	0.000507	J	0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	107			75.0-131
(S) Dibromofluoromethane	99.4			65.0-129
(S) 4-Bromofluorobenzene	104			67.0-138

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3343394-1 09/19/18 20:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.587	93.8	10.0-160	
Acrylonitrile	0.625	0.712	114	45.0-153	



Laboratory Control Sample (LCS)

(LCS) R3343394-1 09/19/18 20:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Benzene	0.125	0.102	81.7	70.0-123	
Bromobenzene	0.125	0.142	114	73.0-121	
Bromodichloromethane	0.125	0.0938	75.1	73.0-121	
Bromochloromethane	0.125	0.148	118	77.0-128	
Bromoform	0.125	0.127	102	64.0-132	
Bromomethane	0.125	0.121	96.8	56.0-147	
n-Butylbenzene	0.125	0.132	105	68.0-135	
sec-Butylbenzene	0.125	0.111	89.2	74.0-130	
tert-Butylbenzene	0.125	0.115	91.6	75.0-127	
Carbon disulfide	0.125	0.122	97.2	56.0-133	
Carbon tetrachloride	0.125	0.0876	70.0	66.0-128	
Chlorobenzene	0.125	0.121	97.2	76.0-128	
Chlorodibromomethane	0.125	0.0965	77.2	74.0-127	
Chloroethane	0.125	0.106	84.5	61.0-134	
Chloroform	0.125	0.102	81.5	72.0-123	
Chloromethane	0.125	0.132	106	51.0-138	
2-Chlorotoluene	0.125	0.125	100	75.0-124	
4-Chlorotoluene	0.125	0.115	91.8	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.102	81.8	59.0-130	
1,2-Dibromoethane	0.125	0.133	106	74.0-128	
Dibromomethane	0.125	0.142	113	75.0-122	
1,2-Dichlorobenzene	0.125	0.106	84.6	76.0-124	
1,3-Dichlorobenzene	0.125	0.0968	77.4	76.0-125	
1,4-Dichlorobenzene	0.125	0.108	86.2	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.109	87.3	45.0-143	
Dichlorodifluoromethane	0.125	0.141	113	43.0-156	
1,1-Dichloroethane	0.125	0.144	115	70.0-127	
1,2-Dichloroethane	0.125	0.148	118	65.0-131	
1,1-Dichloroethene	0.125	0.139	111	65.0-131	
cis-1,2-Dichloroethene	0.125	0.0976	78.1	73.0-125	
trans-1,2-Dichloroethene	0.125	0.0922	73.7	71.0-125	
1,1-Dichloropropene	0.125	0.103	82.5	73.0-125	
1,3-Dichloropropane	0.125	0.110	88.3	80.0-125	
cis-1,3-Dichloropropene	0.125	0.0954	76.3	76.0-127	
trans-1,3-Dichloropropene	0.125	0.0830	66.4	73.0-127	J4
2,2-Dichloropropane	0.125	0.0794	63.5	59.0-135	
Di-isopropyl ether	0.125	0.113	90.7	60.0-136	
Ethylbenzene	0.125	0.106	84.6	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0960	76.8	57.0-150	
2-Hexanone	0.625	0.659	105	54.0-147	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3343394-1 09/19/18 20:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Iodomethane	0.625	0.683	109	74.0-134	
Isopropylbenzene	0.125	0.143	114	72.0-127	
p-Isopropyltoluene	0.125	0.0889	71.1	72.0-133	J4
Methylene Chloride	0.125	0.109	86.9	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.571	91.4	56.0-143	
Methyl tert-butyl ether	0.125	0.102	81.4	66.0-132	
Naphthalene	0.125	0.114	91.5	59.0-130	
n-Propylbenzene	0.125	0.132	105	74.0-126	
1,1,1,2-Tetrachloroethane	0.125	0.0859	68.7	74.0-129	J4
1,1,2,2-Tetrachloroethane	0.125	0.130	104	68.0-128	
Tetrachloroethene	0.125	0.102	81.7	70.0-136	
Toluene	0.125	0.116	92.5	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.135	108	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0923	73.8	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.107	85.8	62.0-137	
1,1,1-Trichloroethane	0.125	0.106	85.1	69.0-126	
1,1,2-Trichloroethane	0.125	0.110	88.2	78.0-123	
Trichloroethene	0.125	0.113	90.2	76.0-126	
Trichlorofluoromethane	0.125	0.128	103	61.0-142	
1,2,3-Trichloropropane	0.125	0.128	102	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.101	80.7	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.118	94.8	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.138	110	73.0-127	
Vinyl acetate	0.625	0.462	73.9	43.0-159	
Vinyl chloride	0.125	0.120	96.3	63.0-134	
Xylenes, Total	0.375	0.347	92.5	72.0-127	
(S) Toluene-d8			105	75.0-131	
(S) Dibromofluoromethane			105	65.0-129	
(S) 4-Bromofluorobenzene			104	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1025616-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1025616-05 09/20/18 05:24 • (MS) R3343394-3 09/19/18 22:26 • (MSD) R3343394-4 09/19/18 22:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.707	U	0.125	0.176	17.6	24.8	1	10.0-160			34.1	40
Acrylonitrile	0.707	U	0.456	0.551	64.5	77.9	1	10.0-160			18.8	40
Benzene	0.141	0.000573	0.0940	0.102	66.0	71.9	1	10.0-149			8.44	37
Bromobenzene	0.141	0.0129	0.139	0.158	89.0	102	1	10.0-156			12.8	38



L1025616-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1025616-05 09/20/18 05:24 • (MS) R3343394-3 09/19/18 22:26 • (MSD) R3343394-4 09/19/18 22:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	0.141	U	0.0922	0.0999	65.2	70.6	1	10.0-143			7.98	37
Bromoform	0.141	U	0.111	0.128	78.7	90.6	1	10.0-146			14.0	36
Bromochloromethane	0.141	U	0.132	0.142	93.2	100	1	10.0-155			7.46	33
Bromomethane	0.141	U	0.112	0.109	79.2	76.8	1	10.0-149			3.01	38
n-Butylbenzene	0.141	U	0.154	0.175	109	123	1	10.0-160			12.3	40
sec-Butylbenzene	0.141	U	0.120	0.137	84.6	96.5	1	10.0-159			13.2	39
tert-Butylbenzene	0.141	U	0.121	0.132	85.7	93.6	1	10.0-156			8.88	39
Carbon tetrachloride	0.141	U	0.0865	0.0891	61.1	63.0	1	10.0-145			2.99	37
Carbon disulfide	0.141	U	0.111	0.121	78.8	85.2	1	10.0-145			7.85	39
Chlorobenzene	0.141	U	0.112	0.118	79.4	83.4	1	10.0-152			4.94	39
Chlorodibromomethane	0.141	0.00224	0.0878	0.101	60.5	70.0	1	10.0-146			14.2	37
Chloroethane	0.141	0.0230	0.0859	0.106	44.5	59.0	1	10.0-146			21.3	40
Chloroform	0.141	U	0.0921	0.105	65.1	74.1	1	10.0-146			13.0	37
Chloromethane	0.141	U	0.154	0.151	109	107	1	10.0-159			1.68	37
2-Chlorotoluene	0.141	U	0.122	0.135	86.3	95.7	1	10.0-159			10.4	38
4-Chlorotoluene	0.141	U	0.108	0.125	76.1	88.3	1	10.0-155			14.8	39
1,2-Dibromo-3-Chloropropane	0.141	U	0.0705	0.0913	49.8	64.5	1	10.0-151			25.7	39
1,2-Dibromoethane	0.141	U	0.120	0.130	84.6	91.9	1	10.0-148			8.32	34
Dibromomethane	0.141	U	0.133	0.145	94.2	102	1	10.0-147			8.29	35
1,2-Dichlorobenzene	0.141	U	0.103	0.113	72.7	79.9	1	10.0-155			9.45	37
1,3-Dichlorobenzene	0.141	U	0.104	0.116	73.2	82.0	1	10.0-153			11.3	38
1,4-Dichlorobenzene	0.141	U	0.109	0.119	76.8	84.0	1	10.0-151			8.91	38
Dichlorodifluoromethane	0.141	U	0.180	0.180	127	128	1	10.0-160			0.220	35
trans-1,4-Dichloro-2-butene	0.141	U	0.111	0.126	78.7	89.2	1	10.0-152			12.4	36
1,1-Dichloroethane	0.141	U	0.134	0.147	94.7	104	1	10.0-147			9.36	37
1,2-Dichloroethane	0.141	U	0.130	0.145	91.8	103	1	10.0-148			11.3	35
1,1-Dichloroethene	0.141	U	0.136	0.152	96.0	107	1	10.0-155			11.0	37
cis-1,2-Dichloroethene	0.141	U	0.0897	0.0998	63.4	70.6	1	10.0-149			10.7	37
trans-1,2-Dichloroethene	0.141	U	0.0815	0.0910	57.6	64.3	1	10.0-150			11.0	37
1,1-Dichloropropene	0.141	U	0.0953	0.106	67.3	74.8	1	10.0-153			10.5	35
1,3-Dichloropropane	0.141	U	0.100	0.111	70.9	78.4	1	10.0-154			10.1	35
cis-1,3-Dichloropropene	0.141	U	0.0864	0.0925	61.1	65.4	1	10.0-151			6.80	37
trans-1,3-Dichloropropene	0.141	0.00702	0.0789	0.0870	50.8	56.6	1	10.0-148			9.85	37
2,2-Dichloropropane	0.141	U	0.0651	0.0660	46.0	46.6	1	10.0-138			1.38	36
Di-isopropyl ether	0.141	U	0.101	0.120	71.2	85.1	1	10.0-147			17.7	36
Ethylbenzene	0.141	U	0.103	0.107	73.0	75.9	1	10.0-160			3.76	38
Hexachloro-1,3-butadiene	0.141	U	0.105	0.131	74.1	92.8	1	10.0-160			22.4	40
2-Hexanone	0.707	U	0.444	0.506	62.8	71.5	1	10.0-160			12.9	36
Isopropylbenzene	0.141	U	0.152	0.166	107	117	1	10.0-155			9.14	38

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





L1025616-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1025616-05 09/20/18 05:24 • (MS) R3343394-3 09/19/18 22:26 • (MSD) R3343394-4 09/19/18 22:46

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iodomethane	0.707	U	0.595	0.619	84.1	87.6	1	10.0-160			4.03	38
p-Isopropyltoluene	0.141	U	0.0972	0.106	68.7	74.7	1	10.0-160			8.31	40
Methylene Chloride	0.141	U	0.0954	0.104	67.5	73.8	1	10.0-141			9.05	37
4-Methyl-2-pentanone (MIBK)	0.707	U	0.417	0.487	59.0	68.8	1	10.0-160			15.3	35
Methyl tert-butyl ether	0.141	U	0.0733	0.0847	51.8	59.9	1	11.0-147			14.5	35
Naphthalene	0.141	0.0227	0.0943	0.103	50.6	56.5	1	10.0-160			8.46	36
n-Propylbenzene	0.141	0.00165	0.136	0.149	94.9	104	1	10.0-158			9.33	38
1,1,1,2-Tetrachloroethane	0.141	U	0.0787	0.0827	55.6	58.4	1	10.0-149			4.96	39
1,1,2,2-Tetrachloroethane	0.141	0.00368	0.120	0.131	82.1	89.9	1	10.0-160			8.75	35
Tetrachloroethene	0.141	U	0.101	0.104	71.3	73.6	1	10.0-156			3.23	39
Toluene	0.141	0.00153	0.113	0.120	78.9	83.8	1	10.0-156			5.88	38
1,1,2-Trichlorotrifluoroethane	0.141	U	0.134	0.125	94.8	88.6	1	10.0-160			6.74	36
1,2,3-Trichlorobenzene	0.141	U	0.0866	0.104	61.2	73.3	1	10.0-160			18.0	40
1,2,4-Trichlorobenzene	0.141	U	0.113	0.120	79.7	84.5	1	10.0-160			5.85	40
1,1,1-Trichloroethane	0.141	U	0.0949	0.104	67.1	73.6	1	10.0-144			9.27	35
1,1,2-Trichloroethane	0.141	U	0.0967	0.110	68.3	78.1	1	10.0-160			13.3	35
Trichloroethene	0.141	U	0.102	0.114	72.2	80.6	1	10.0-156			10.9	38
Trichlorofluoromethane	0.141	0.000651	0.0890	0.0882	62.5	61.9	1	10.0-160			0.982	40
1,2,3-Trichloropropane	0.141	U	0.115	0.124	81.6	87.9	1	10.0-156			7.48	35
1,2,3-Trimethylbenzene	0.141	0.00174	0.0985	0.112	68.4	77.8	1	10.0-160			12.7	36
1,2,4-Trimethylbenzene	0.141	U	0.121	0.135	85.5	95.4	1	10.0-160			11.0	36
1,3,5-Trimethylbenzene	0.141	U	0.139	0.150	97.9	106	1	10.0-160			7.69	38
Vinyl chloride	0.141	U	0.123	0.115	86.8	81.5	1	10.0-160			6.31	37
Vinyl acetate	0.707	U	0.352	0.327	49.7	46.2	1	10.0-128			7.31	40
Xylenes, Total	0.424	U	0.325	0.358	76.5	84.3	1	10.0-160			9.62	38
(S) Toluene-d8					104	104		75.0-131				
(S) Dibromofluoromethane					100	103		65.0-129				
(S) 4-Bromofluorobenzene					106	109		67.0-138				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3343576-2 09/20/18 10:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3343576-2 09/20/18 10:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Iodomethane	0.0737		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0114	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	112			75.0-131
(S) Dibromofluoromethane	96.3			65.0-129
(S) 4-Bromofluorobenzene	99.5			67.0-138

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3343576-1 09/20/18 08:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.563	90.1	10.0-160	
Acrylonitrile	0.625	0.858	137	45.0-153	
Benzene	0.125	0.101	81.0	70.0-123	
Bromobenzene	0.125	0.133	106	73.0-121	
Bromochloromethane	0.125	0.101	80.9	77.0-128	



Laboratory Control Sample (LCS)

(LCS) R3343576-1 09/20/18 08:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.135	108	64.0-132	
n-Butylbenzene	0.125	0.127	101	68.0-135	
sec-Butylbenzene	0.125	0.135	108	74.0-130	
tert-Butylbenzene	0.125	0.122	97.6	75.0-127	
Carbon disulfide	0.125	0.112	89.6	56.0-133	
Carbon tetrachloride	0.125	0.136	109	66.0-128	
Chlorobenzene	0.125	0.125	99.8	76.0-128	
Chlorodibromomethane	0.125	0.115	92.4	74.0-127	
Chloroethane	0.125	0.116	92.6	61.0-134	
Chloroform	0.125	0.104	83.0	72.0-123	
Chloromethane	0.125	0.105	83.8	51.0-138	
2-Chlorotoluene	0.125	0.118	94.6	75.0-124	
4-Chlorotoluene	0.125	0.129	103	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.128	103	59.0-130	
1,2-Dibromoethane	0.125	0.0985	78.8	74.0-128	
Dibromomethane	0.125	0.143	114	75.0-122	
1,2-Dichlorobenzene	0.125	0.114	90.9	76.0-124	
1,3-Dichlorobenzene	0.125	0.105	84.0	76.0-125	
1,4-Dichlorobenzene	0.125	0.0943	75.4	77.0-121	J4
trans-1,4-Dichloro-2-butene	0.125	0.135	108	45.0-143	
Dichlorodifluoromethane	0.125	0.152	122	43.0-156	
1,1-Dichloroethane	0.125	0.146	117	70.0-127	
1,2-Dichloroethane	0.125	0.121	96.9	65.0-131	
1,1-Dichloroethene	0.125	0.0993	79.5	65.0-131	
trans-1,2-Dichloroethene	0.125	0.115	92.4	71.0-125	
1,2-Dichloropropane	0.125	0.120	96.1	74.0-125	
1,1-Dichloropropene	0.125	0.125	99.8	73.0-125	
1,3-Dichloropropane	0.125	0.146	117	80.0-125	
cis-1,3-Dichloropropene	0.125	0.161	129	76.0-127	J4
trans-1,3-Dichloropropene	0.125	0.141	113	73.0-127	
2,2-Dichloropropane	0.125	0.144	115	59.0-135	
Di-isopropyl ether	0.125	0.115	91.6	60.0-136	
Hexachloro-1,3-butadiene	0.125	0.129	103	57.0-150	
2-Hexanone	0.625	0.712	114	54.0-147	
n-Hexane	0.125	0.158	127	55.0-137	
Iodomethane	0.625	0.614	98.2	74.0-134	
Isopropylbenzene	0.125	0.101	80.5	72.0-127	
p-Isopropyltoluene	0.125	0.113	90.2	72.0-133	
2-Butanone (MEK)	0.625	0.751	120	30.0-160	
Methylene Chloride	0.125	0.118	94.0	68.0-123	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3343576-1 09/20/18 08:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	0.625	0.831	133	56.0-143	
Methyl tert-butyl ether	0.125	0.122	97.2	66.0-132	
Naphthalene	0.125	0.116	92.6	59.0-130	
n-Propylbenzene	0.125	0.103	82.7	74.0-126	
Styrene	0.125	0.0823	65.8	72.0-127	J4
1,1,1,2-Tetrachloroethane	0.125	0.110	87.6	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.179	144	68.0-128	J4
1,1,2-Trichlorotrifluoroethane	0.125	0.150	120	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.119	95.3	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.125	100	62.0-137	
1,1,1-Trichloroethane	0.125	0.154	123	69.0-126	
1,1,2-Trichloroethane	0.125	0.127	102	78.0-123	
Trichlorofluoromethane	0.125	0.157	126	61.0-142	
1,2,3-Trichloropropane	0.125	0.152	122	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.124	99.6	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.110	87.6	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.120	96.3	73.0-127	
Vinyl acetate	0.625	0.801	128	43.0-159	
Vinyl chloride	0.125	0.123	98.7	63.0-134	
Xylenes, Total	0.375	0.297	79.2	72.0-127	
(S) Toluene-d8			105	75.0-131	
(S) Dibromofluoromethane			95.5	65.0-129	
(S) 4-Bromofluorobenzene			101	67.0-138	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

L1026042-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1026042-08 09/20/18 17:41 • (MS) R3343576-3 09/20/18 19:16 • (MSD) R3343576-4 09/20/18 19:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.652	U	0.636	0.719	82.7	93.4	1.18	10.0-160			12.2	40
Acrylonitrile	0.652	U	0.894	0.918	116	119	1.18	10.0-160			2.68	40
Benzene	0.130	0.000586	0.0999	0.112	64.6	72.6	1.18	10.0-149			11.7	37
Bromobenzene	0.130	U	0.129	0.145	84.0	94.3	1.18	10.0-156			11.5	38
Bromoform	0.130	U	0.125	0.133	81.2	86.6	1.18	10.0-146			6.44	36
Bromochloromethane	0.130	U	0.0936	0.108	60.8	70.5	1.18	10.0-155			14.7	33
n-Butylbenzene	0.130	U	0.124	0.148	80.7	96.1	1.18	10.0-160			17.5	40
sec-Butylbenzene	0.130	U	0.133	0.158	86.5	103	1.18	10.0-159			17.0	39
tert-Butylbenzene	0.130	U	0.117	0.139	76.3	90.1	1.18	10.0-156			16.5	39
Carbon tetrachloride	0.130	U	0.122	0.140	79.5	91.3	1.18	10.0-145			13.8	37



L1026042-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1026042-08 09/20/18 17:41 • (MS) R3343576-3 09/20/18 19:16 • (MSD) R3343576-4 09/20/18 19:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Carbon disulfide	0.130	U	0.111	0.129	72.1	83.6	1.18	10.0-145			14.7	39
Chlorobenzene	0.130	U	0.121	0.139	78.5	90.1	1.18	10.0-152			13.8	39
Chlorodibromomethane	0.130	U	0.109	0.118	71.0	77.0	1.18	10.0-146			8.17	37
Chloroethane	0.130	U	0.112	0.129	72.9	83.7	1.18	10.0-146			13.7	40
Chloroform	0.130	U	0.0994	0.111	64.6	72.1	1.18	10.0-146			11.0	37
Chloromethane	0.130	U	0.109	0.131	71.1	85.5	1.18	10.0-159			18.4	37
2-Chlorotoluene	0.130	U	0.113	0.130	73.2	84.7	1.18	10.0-159			14.6	38
4-Chlorotoluene	0.130	U	0.123	0.142	79.9	92.1	1.18	10.0-155			14.2	39
1,2-Dibromo-3-Chloropropane	0.130	U	0.111	0.119	72.5	77.3	1.18	10.0-151			6.41	39
1,2-Dibromoethane	0.130	U	0.0963	0.103	62.6	67.0	1.18	10.0-148			6.74	34
Dibromomethane	0.130	U	0.143	0.150	92.8	97.4	1.18	10.0-147			4.90	35
1,2-Dichlorobenzene	0.130	U	0.112	0.125	72.8	81.1	1.18	10.0-155			10.8	37
1,3-Dichlorobenzene	0.130	U	0.104	0.116	67.6	75.6	1.18	10.0-153			11.1	38
1,4-Dichlorobenzene	0.130	U	0.0935	0.106	60.8	68.6	1.18	10.0-151			12.1	38
Dichlorodifluoromethane	0.130	U	0.187	0.224	121	145	1.18	10.0-160			18.1	35
trans-1,4-Dichloro-2-butene	0.130	U	0.126	0.133	82.0	86.6	1.18	10.0-152			5.43	36
1,1-Dichloroethane	0.130	U	0.140	0.160	91.0	104	1.18	10.0-147			13.1	37
1,2-Dichloroethane	0.130	U	0.119	0.128	77.6	83.2	1.18	10.0-148			6.98	35
1,1-Dichloroethene	0.130	U	0.103	0.121	66.9	78.6	1.18	10.0-155			16.1	37
trans-1,2-Dichloroethene	0.130	U	0.103	0.124	67.2	80.9	1.18	10.0-150			18.5	37
1,2-Dichloropropane	0.130	U	0.117	0.128	76.4	83.3	1.18	10.0-148			8.74	37
1,1-Dichloropropene	0.130	U	0.119	0.144	77.3	93.4	1.18	10.0-153			18.9	35
1,3-Dichloropropane	0.130	U	0.148	0.160	96.2	104	1.18	10.0-154			7.59	35
cis-1,3-Dichloropropene	0.130	U	0.149	0.166	96.9	108	1.18	10.0-151			11.0	37
trans-1,3-Dichloropropene	0.130	U	0.131	0.139	85.1	90.4	1.18	10.0-148			6.06	37
2,2-Dichloropropane	0.130	U	0.124	0.144	80.7	93.7	1.18	10.0-138			14.9	36
Di-isopropyl ether	0.130	U	0.113	0.126	73.7	82.2	1.18	10.0-147			10.9	36
Hexachloro-1,3-butadiene	0.130	U	0.128	0.153	83.4	99.4	1.18	10.0-160			17.5	40
2-Hexanone	0.652	U	0.734	0.783	95.5	102	1.18	10.0-160			6.40	36
Isopropylbenzene	0.130	U	0.0969	0.114	63.0	74.2	1.18	10.0-155			16.4	38
n-Hexane	0.130	0.0176	0.172	0.199	100	118	1.18	10.0-157			14.7	37
Iodomethane	0.652	U	0.446	0.572	58.0	74.3	1.18	10.0-160			24.7	38
p-Isopropyltoluene	0.130	U	0.109	0.129	71.2	83.8	1.18	10.0-160			16.3	40
2-Butanone (MEK)	0.652	U	0.817	0.886	106	115	1.18	10.0-160			8.09	40
Methylene Chloride	0.130	U	0.108	0.118	70.5	76.4	1.18	10.0-141			8.15	37
4-Methyl-2-pentanone (MIBK)	0.652	U	0.812	0.855	106	111	1.18	10.0-160			5.14	35
Methyl tert-butyl ether	0.130	U	0.127	0.129	82.2	83.9	1.18	11.0-147			2.03	35
Naphthalene	0.130	U	0.121	0.128	78.5	83.4	1.18	10.0-160			6.01	36
n-Propylbenzene	0.130	U	0.100	0.118	65.0	76.7	1.18	10.0-158			16.5	38

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1026042-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1026042-08 09/20/18 17:41 • (MS) R3343576-3 09/20/18 19:16 • (MSD) R3343576-4 09/20/18 19:39

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Styrene	0.130	U	0.0816	0.0939	53.1	61.0	1.18	10.0-160			13.9	40
1,1,1,2-Tetrachloroethane	0.130	U	0.100	0.113	65.3	73.3	1.18	10.0-149			11.5	39
1,1,2,2-Tetrachloroethane	0.130	U	0.153	0.157	99.5	102	1.18	10.0-160			2.79	35
1,1,2-Trichlorotrifluoroethane	0.130	U	0.133	0.157	86.2	102	1.18	10.0-160			17.0	36
1,2,3-Trichlorobenzene	0.130	U	0.124	0.135	80.9	87.8	1.18	10.0-160			8.22	40
1,2,4-Trichlorobenzene	0.130	U	0.129	0.142	84.0	92.2	1.18	10.0-160			9.34	40
1,1,1-Trichloroethane	0.130	U	0.143	0.166	93.1	108	1.18	10.0-144			14.5	35
1,1,2-Trichloroethane	0.130	U	0.126	0.128	82.0	83.3	1.18	10.0-160			1.57	35
Trichlorofluoromethane	0.130	U	0.161	0.189	104	123	1.18	10.0-160			16.0	40
1,2,3-Trichloropropane	0.130	U	0.148	0.155	96.2	101	1.18	10.0-156			4.92	35
1,2,4-Trimethylbenzene	0.130	0.00153	0.106	0.124	67.8	79.4	1.18	10.0-160			15.5	36
1,2,3-Trimethylbenzene	0.130	U	0.115	0.132	74.6	85.6	1.18	10.0-160			13.7	36
1,3,5-Trimethylbenzene	0.130	U	0.118	0.137	76.5	88.8	1.18	10.0-160			14.8	38
Vinyl chloride	0.130	U	0.00831	0.00884	5.40	5.75	1.18	10.0-160	J6	J6	6.15	37
Vinyl acetate	0.652	U	0.0751	0.0616	9.77	8.01	1.18	10.0-128	J6	J6	19.8	40
Xylenes, Total	0.391	U	0.290	0.338	62.8	73.2	1.18	10.0-160			15.4	38
(S) Toluene-d8					107	108		75.0-131				
(S) Dibromofluoromethane					96.7	95.0		65.0-129				
(S) 4-Bromofluorobenzene					101	101		67.0-138				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3343601-2 09/20/18 11:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
cis-1,2-Dichloroethene	U		0.000690	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
n-Hexane	U		0.00106	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Styrene	U		0.00273	0.0125
Tetrachloroethene	U		0.000700	0.00250
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	114			75.0-131
(S) Dibromofluoromethane	93.1			65.0-129
(S) 4-Bromofluorobenzene	85.9			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3343601-1 09/20/18 10:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	0.125	0.138	110	73.0-125	
1,2-Dichloropropane	0.125	0.117	93.5	74.0-125	
n-Hexane	0.125	0.179	143	55.0-137	J4
2-Butanone (MEK)	0.625	0.777	124	30.0-160	
Styrene	0.125	0.0869	69.5	72.0-127	J4
Tetrachloroethene	0.125	0.156	125	70.0-136	
Trichloroethene	0.125	0.133	106	76.0-126	
(S) Toluene-d8			104	75.0-131	
(S) Dibromofluoromethane			110	65.0-129	
(S) 4-Bromofluorobenzene			86.4	67.0-138	



Method Blank (MB)

(MB) R3343784-2 09/20/18 23:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
1,2-Dichloropropane	U		0.00127	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Styrene	U		0.00273	0.0125
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	106			75.0-131
(S) Dibromofluoromethane	93.4			65.0-129
(S) 4-Bromofluorobenzene	110			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3343784-1 09/20/18 21:56

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/kg	mg/kg	%	%	
1,2-Dichloropropane	0.125	0.139	111	74.0-125	
2-Butanone (MEK)	0.625	0.898	144	30.0-160	
Styrene	0.125	0.143	114	72.0-127	
Tetrachloroethene	0.125	0.124	99.1	70.0-136	
(S) Toluene-d8			100	75.0-131	
(S) Dibromofluoromethane			109	65.0-129	
(S) 4-Bromofluorobenzene			108	67.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3344040-2 09/21/18 11:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
n-Hexane	U		0.00106	0.00500
(S) Toluene-d8	118			75.0-131
(S) Dibromofluoromethane	89.7			65.0-129
(S) 4-Bromofluorobenzene	88.4			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3344040-1 09/21/18 09:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
n-Hexane	0.125	0.164	131	55.0-137	
(S) Toluene-d8			107	75.0-131	
(S) Dibromofluoromethane			105	65.0-129	
(S) 4-Bromofluorobenzene			100	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3343934-2 09/21/18 09:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Bromodichloromethane	U		0.000788	0.00250
Bromomethane	U		0.00370	0.0125
cis-1,2-Dichloroethene	U		0.000690	0.00250
Ethylbenzene	U		0.000530	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	108			65.0-129
(S) 4-Bromofluorobenzene	108			67.0-138

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Laboratory Control Sample (LCS)

(LCS) R3343934-1 09/21/18 08:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromodichloromethane	0.125	0.0985	78.8	73.0-121	
Bromomethane	0.125	0.109	87.4	56.0-147	
cis-1,2-Dichloroethene	0.125	0.104	83.3	73.0-125	
Ethylbenzene	0.125	0.112	89.6	74.0-126	
Tetrachloroethene	0.125	0.0983	78.6	70.0-136	
Toluene	0.125	0.122	97.3	75.0-121	
Trichloroethene	0.125	0.111	88.4	76.0-126	
(S) Toluene-d8			103	75.0-131	
(S) Dibromofluoromethane			105	65.0-129	
(S) 4-Bromofluorobenzene			108	67.0-138	



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

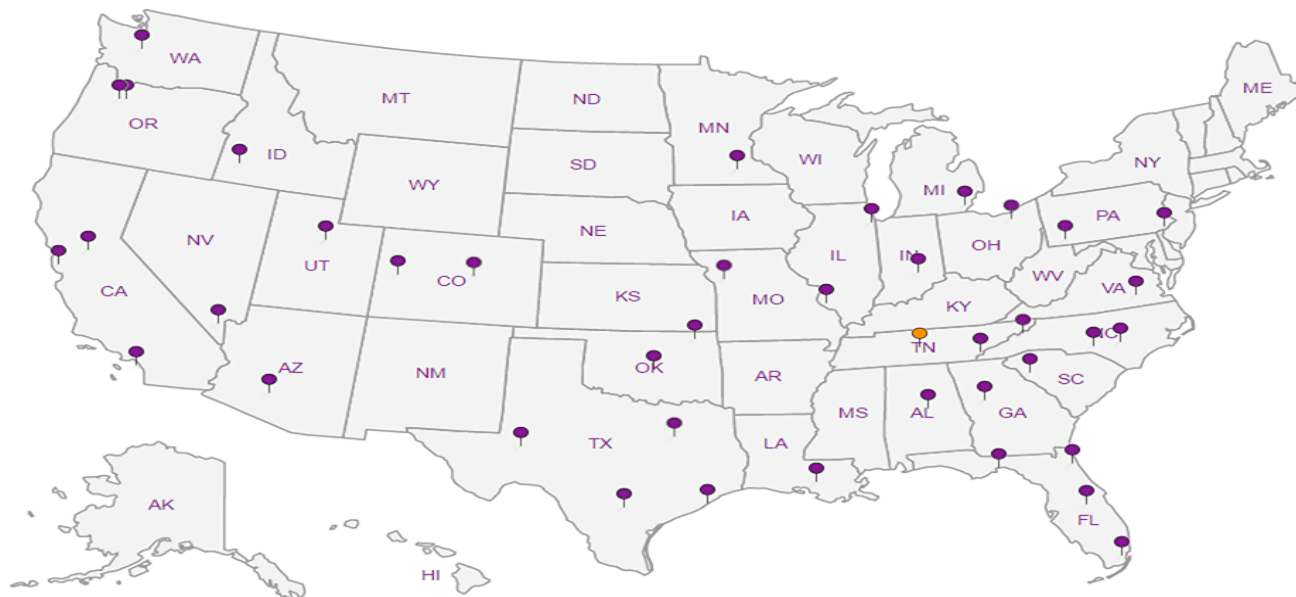
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com

Project  
Description: American Linen

City/State  
Collected: SEATTLE, WA

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.304

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
S. MCKERNAN

Site/Facility ID #  
1413.001.05.304

P.O. #

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)

Quote #

Immediately  
Packed on Ice N    Y   1  

Same Day Five Day  
Next Day 5 Day (Rad Only)  
Two Day 10 Day (Rad Only)  
Three Day

Date Results Needed

No.  
of  
Cntrs

VOCs V8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip blk V8260LLC 40mlAmb-HCl-Bik

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
1W-24C-66	GRAB	SS	66	9/10/18	1030	2
1W-24C-75	↓	SS	75	↓	1000	2
1W-24C-80	↓	SS	80	↓	1100	2
1W-27C-45	↓	SS	45	↓	1155	2
<del>1W-14d-32</del> 1W-14d-32	↓	SS	32	↓	1600	2
1W-14d-45	↓	SS	45	9/11/18	0855	1
1W-14d-47	↓	SS	47	↓	0945	1
1W-14d-55	↓	SS	55	↓	0950	1
1W-14d-60	↓	SS	60	↓	1015	1
1W-14d-65	↓	SS	65	↓	1100	1

L# L1025469  
E091

Acctnum: PESENVSWA  
Template: T139825  
Prelogin: P668288  
TSR: 110 - Brian Ford  
PB:

Shipped Via: FedEX Ground

Remarks	Sample # (lab only)
	-01
	02
	03
	04
HOLD	
	05
HOLD	
	06
HOLD	
	07

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

RAD SCREEN: <0.5 mR/hr

pH: \_\_\_\_\_ Temp: \_\_\_\_\_

Flow: \_\_\_\_\_ Other: \_\_\_\_\_

Samples returned via:

UPS FedEx Courier

Tracking # 4510 1654 1027

Sample Receipt Checklist

COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero HeadSpace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)

Date: 9/12/18 Time: 1220

Received by: (Signature) *[Signature]* 9/12/18 1220

Trip Blank Received:  Yes /  No  
HCl/MeOH TBR

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: 9/12/18 Time: 1220

Received by: (Signature)

Temp: 1.04 °C Bottles Received: 34

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)

Date: 9/13/18 Time: 8:45

09-0043

Condition:  
NCF / OK



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com

Project  
Description: **American Linen**

City/State  
Collected: **SEATTLE, WA**

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
**1413.001.05.304**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**S. McKernan**

Site/Facility ID #  
**1413-001.05.304**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately  
Packed on ice N    Y X

   Same Day    Five Day  
   Next Day    5 Day (Rad Only)  
   Two Day    20 Day (Rad Only)  
   Three Day

Date Results Needed

No.  
of  
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	Analysis / Container / Preservative	Chain of Custody
1W-14d-70	GRAB	SS	70	9/11/18	1135	2	VOCs V8260C 40mlAmb/MeOH5ml/Syr	L# <b>L1025469</b> Table # Acctnum: <b>PESENVSWA</b> Template: <b>T139825</b> Prelogin: <b>P668288</b> TSR: <b>110 - Brian Ford</b> PB: Shipped Via: <b>FedEX Ground</b>
1W-14d-75	↓	SS	75	↓	1200	↓	dry weight 2ozClr-NoPres	
1W-14d-80	↓	SS	80	↓	1245	↓	trip blk V8260LLC 40mlAmb-HCl-BIK	
1W-14d-86	↓	SS	86	↓	1235	↓		
1W-14d-89	↓	SS	89	↓	1230	↓		
1W-14d-95	↓	SS	95	↓	1430	↓		
±1W-15d-5A	↓	SS	5A	↓	1630	↓		
TRIP BLANK	—	SS	—	—	—	1		
		SS						
		SS						
		SS						

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

RAD SCREEN: <0.5 mR/hr

Samples returned via:  
UPS    FedEx    Courier   

Tracking #

pH    Temp     
Flow    Other   

Sample Receipt Checklist  
COC Seal Present/Intact:    Y    N  
COC Signed/Accurate:    Y    N  
Bottles arrive intact:    Y    N  
Correct bottles used:    Y    N  
Sufficient volume sent:    Y    N  
If Applicable  
VOA Zero Headspace:    Y    N  
Preservation Correct/Checked:    Y    N

Relinquished by: (Signature)

Date: 9/12/18 Time: 1220

Received by: (Signature) 9/12/18 12:20

Trip Blank Received:    Y    No  
MCL / MeOH  
TSR

Relinquished by: (Signature)

Date: 9/12/18 Time: 1300

Received by: (Signature)

Temp: 1.2149 °C Bottles Received: 39

if preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Date: 9/13/18 Time: 8:45

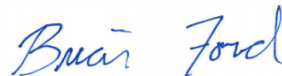
Hold: Condition: NCF / OK

September 24, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1026432  
Samples Received: 09/15/2018  
Project Number: 1413.001.05.304  
Description: American Linen  
Site: 1413.001.05.304  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>5</b>	
<b>Sr: Sample Results</b>	<b>6</b>	<b>3</b> Ss
IW-54A-8 L1026432-01	6	
IW-54A-49 L1026432-02	8	<b>4</b> Cn
IW-55B-43 L1026432-03	10	<b>5</b> Sr
IW-55B-39 L1026432-04	12	
IW-55B-61 L1026432-05	14	<b>6</b> Qc
IW-12D-42 L1026432-06	16	
B-928-42 L1026432-07	18	<b>7</b> Gl
IW-12D-50 L1026432-08	20	<b>8</b> Al
IW-12D-60 L1026432-09	22	
BLANK-091418 L1026432-10	24	<b>9</b> Sc
<b>Qc: Quality Control Summary</b>	<b>26</b>	
Total Solids by Method 2540 G-2011	26	
Volatile Organic Compounds (GC/MS) by Method 8260C	28	
<b>Gl: Glossary of Terms</b>	<b>39</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>40</b>	
<b>Sc: Sample Chain of Custody</b>	<b>41</b>	

# SAMPLE SUMMARY

## IW-54A-8 L1026432-01 Solid

Collected by  
S. McKernan  
Collected date/time  
09/12/18 13:40  
Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168410	1	09/20/18 11:10	09/20/18 11:19	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/12/18 13:40	09/21/18 22:18	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	200	09/12/18 13:40	09/23/18 20:01	DWR

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## IW-54A-49 L1026432-02 Solid

Collected by  
S. McKernan  
Collected date/time  
09/12/18 17:40  
Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168410	1	09/20/18 11:10	09/20/18 11:19	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/12/18 17:40	09/21/18 22:37	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	1	09/12/18 17:40	09/23/18 16:50	DWR

## IW-55B-43 L1026432-03 Solid

Collected by  
S. McKernan  
Collected date/time  
09/13/18 15:15  
Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168410	1	09/20/18 11:10	09/20/18 11:19	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/13/18 15:15	09/21/18 22:56	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	80	09/13/18 15:15	09/23/18 20:25	DWR

## IW-55B-39 L1026432-04 Solid

Collected by  
S. McKernan  
Collected date/time  
09/13/18 14:40  
Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168410	1	09/20/18 11:10	09/20/18 11:19	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/13/18 14:40	09/21/18 23:15	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	1	09/13/18 14:40	09/23/18 17:14	DWR

## IW-55B-61 L1026432-05 Solid

Collected by  
S. McKernan  
Collected date/time  
09/13/18 18:00  
Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168411	1	09/20/18 09:41	09/20/18 09:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/13/18 18:00	09/21/18 23:34	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	8	09/13/18 18:00	09/23/18 20:49	DWR

## IW-12D-42 L1026432-06 Solid

Collected by  
S. McKernan  
Collected date/time  
09/14/18 12:35  
Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168411	1	09/20/18 09:41	09/20/18 09:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/14/18 12:35	09/21/18 23:52	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	100	09/14/18 12:35	09/23/18 21:13	DWR

# SAMPLE SUMMARY



## B-928-42 L1026432-07 Solid

Collected by  
S. McKernan      Collected date/time  
09/14/18 12:55      Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168411	1	09/20/18 09:41	09/20/18 09:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/14/18 12:55	09/22/18 00:11	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	100	09/14/18 12:55	09/23/18 21:37	DWR

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## IW-12D-50 L1026432-08 Solid

Collected by  
S. McKernan      Collected date/time  
09/14/18 13:40      Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168411	1	09/20/18 09:41	09/20/18 09:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/14/18 13:40	09/22/18 00:30	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	200	09/14/18 13:40	09/23/18 22:01	DWR

## IW-12D-60 L1026432-09 Solid

Collected by  
S. McKernan      Collected date/time  
09/14/18 14:20      Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1168411	1	09/20/18 09:41	09/20/18 09:51	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1169827	1	09/14/18 14:20	09/22/18 00:49	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1170348	20	09/14/18 14:20	09/23/18 22:24	DWR

## BLANK-091418 L1026432-10 GW

Collected by  
S. McKernan      Collected date/time  
09/14/18 00:00      Received date/time  
09/15/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1167535	1	09/18/18 13:29	09/18/18 13:29	RAS



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	09/20/2018 11:19	<a href="#">WG1168410</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		3.16	5.77	200	09/23/2018 20:01	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00219	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Benzene	U		0.000462	0.00115	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromobenzene	U		0.00121	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000910	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00130	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromoform	U		0.00690	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromomethane	U		0.00427	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00443	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00292	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00179	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00469	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00125	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000661	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000519	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Chloroethane	U		0.249	1.15	200	09/23/2018 20:01	<a href="#">WG1170348</a>
Chloroform	U		0.000479	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Chloromethane	U		0.00160	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00106	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00130	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<a href="#">JO</a>	0.00589	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000606	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Dibromomethane	U		0.00115	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00167	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00196	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00227	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000944	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000664	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000548	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1-Dichloroethene	U		0.000577	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	0.00700		0.000796	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00165	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.293	1.15	200	09/23/2018 20:01	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000808	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00202	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000783	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00177	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<a href="#">JO</a>	0.00162	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000915	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000404	0.00115	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000612	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
2-Hexanone	U		0.0115	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
n-Hexane	U		0.00122	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Iodomethane	U	<a href="#">J4</a>	0.00698	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000996	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00269	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
2-Butanone (MEK)	0.0472		0.0144	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00766	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000340	0.00115	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Naphthalene	U		0.00360	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00136	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Styrene	U		0.00315	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000577	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000450	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000779	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Tetrachloroethene	48.1		0.162	0.577	200	09/23/2018 20:01	<a href="#">WG1170348</a>
Toluene	0.00424	<u>J</u>	0.00144	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.144	0.577	200	09/23/2018 20:01	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00556	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000317	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.00102	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Trichloroethene	0.0503		0.000462	0.00115	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000577	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00589	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00204	<u>J</u>	0.00134	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	U		0.00133	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00125	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Vinyl acetate	U	<u>JO</u>	0.00406	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Vinyl chloride	U		0.000788	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00552	0.00750	1	09/21/2018 22:18	<a href="#">WG1169827</a>
(S) Toluene-d8	117			75.0-131		09/21/2018 22:18	<a href="#">WG1169827</a>
(S) Toluene-d8	122			75.0-131		09/23/2018 20:01	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	102			65.0-129		09/21/2018 22:18	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	99.1			65.0-129		09/23/2018 20:01	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	95.5			67.0-138		09/21/2018 22:18	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/23/2018 20:01	<a href="#">WG1170348</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1026432-01 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-01 WG1170348, WG1169827: Not all compounds reportable at lower dilution.



Collected date/time: 09/12/18 17:40

L1026432

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.3		1	09/20/2018 11:19	<a href="#">WG1168410</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0159	0.0290	1	09/23/2018 16:50	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00220	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Benzene	U		0.000463	0.00116	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Bromobenzene	U		0.00122	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000913	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00131	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Bromoform	U		0.00693	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Bromomethane	U		0.00429	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00445	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00293	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00180	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00470	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00125	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000664	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000521	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Chloroethane	U		0.00125	0.00579	1	09/23/2018 16:50	<a href="#">WG1170348</a>
Chloroform	U		0.000481	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Chloromethane	U		0.00161	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00107	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00131	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00591	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000608	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Dibromomethane	U		0.00116	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00168	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00197	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00228	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000947	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000666	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000550	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1-Dichloroethene	U		0.000579	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	U		0.000799	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.00147	0.00579	1	09/23/2018 16:50	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000811	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00203	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00162	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000918	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000405	0.00116	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000614	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
2-Hexanone	U		0.0116	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
n-Hexane	U		0.00123	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Iodomethane	U	<u>J4</u>	0.00701	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.00100	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00270	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0145	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Methylene Chloride	0.00867	<u>J</u>	0.00769	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/12/18 17:40

L1026432

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Naphthalene	U		0.00361	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00137	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Styrene	U		0.00316	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Tetrachloroethene	0.0827		0.000811	0.00290	1	09/23/2018 16:50	<a href="#">WG1170348</a>
Toluene	0.00537	J	0.00145	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	09/23/2018 16:50	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000319	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.00102	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Trichloroethene	U		0.000463	0.00116	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000579	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00591	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00160	J	0.00134	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Vinyl acetate	U	JO	0.00408	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Vinyl chloride	U		0.000791	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00554	0.00753	1	09/21/2018 22:37	<a href="#">WG1169827</a>
(S) Toluene-d8	87.9			75.0-131		09/21/2018 22:37	<a href="#">WG1169827</a>
(S) Toluene-d8	106			75.0-131		09/23/2018 16:50	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	102			65.0-129		09/21/2018 22:37	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	101			65.0-129		09/23/2018 16:50	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	102			67.0-138		09/21/2018 22:37	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/23/2018 16:50	<a href="#">WG1170348</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	09/20/2018 11:19	<a href="#">WG1168410</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.24	2.26	80	09/23/2018 20:25	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00215	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Benzene	U		0.000452	0.00113	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Bromobenzene	U		0.00119	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000891	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00128	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Bromoform	U		0.00676	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Bromomethane	U		0.00419	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00434	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00286	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00175	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00459	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00122	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000648	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000509	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Chloroethane	U		0.0977	0.452	80	09/23/2018 20:25	<a href="#">WG1170348</a>
Chloroform	U		0.000469	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Chloromethane	U		0.00157	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00104	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00128	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00577	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000594	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Dibromomethane	U		0.00113	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00164	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00192	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00223	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000925	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000650	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000537	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1-Dichloroethene	U		0.000566	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	1.06		0.000781	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.115	0.452	80	09/23/2018 20:25	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000792	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00198	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00158	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000897	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000396	0.00113	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000600	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
2-Hexanone	U		0.0113	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
n-Hexane	U		0.00120	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Iodomethane	U	<u>J4</u>	0.00684	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000976	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00264	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
2-Butanone (MEK)	0.0163	<u>J</u>	0.0141	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00751	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/13/18 15:15

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Naphthalene	U		0.00353	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00133	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Styrene	U		0.00309	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Tetrachloroethene	47.1		0.0633	0.226	80	09/23/2018 20:25	<a href="#">WG1170348</a>
Toluene	U		0.00141	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.0566	0.226	80	09/23/2018 20:25	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000311	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000999	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Trichloroethene	1.04		0.000452	0.00113	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000566	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00577	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00711		0.00131	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00306	LJ	0.00130	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	0.00241	LJ	0.00122	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Vinyl acetate	U	JO	0.00398	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Vinyl chloride	0.0522		0.000773	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00541	0.00735	1	09/21/2018 22:56	<a href="#">WG1169827</a>
(S) Toluene-d8	88.7			75.0-131		09/21/2018 22:56	<a href="#">WG1169827</a>
(S) Toluene-d8	103			75.0-131		09/23/2018 20:25	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	101			65.0-129		09/21/2018 22:56	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	98.8			65.0-129		09/23/2018 20:25	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	90.8			67.0-138		09/21/2018 22:56	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/23/2018 20:25	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1026432-03 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-03 WG1170348, WG1169827: Not all compounds reportable at lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	09/20/2018 11:19	<a href="#">WG1168410</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0413		0.0145	0.0265	1	09/23/2018 17:14	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00202	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Benzene	U		0.000425	0.00106	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromobenzene	U		0.00111	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000837	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00120	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromoform	U		0.00635	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromomethane	U		0.00393	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00408	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00269	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00165	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00431	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00115	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000608	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000478	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Chloroethane	U		0.00115	0.00531	1	09/23/2018 17:14	<a href="#">WG1170348</a>
Chloroform	U		0.000441	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Chloromethane	U		0.00148	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.000977	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00120	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00542	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000557	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Dibromomethane	U		0.00106	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00154	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00181	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00209	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000869	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000611	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000504	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1-Dichloroethene	U		0.000531	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	0.0320		0.000733	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00152	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.00135	0.00531	1	09/23/2018 17:14	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000743	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00186	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000720	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00162	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00149	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000842	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000372	0.00106	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000563	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0135	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
2-Hexanone	U		0.0106	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
n-Hexane	U		0.00113	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Iodomethane	U	<u>J4</u>	0.00642	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000916	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00247	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0133	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Methylene Chloride	0.00906	<u>J</u>	0.00705	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/13/18 14:40

L1026432

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000313	0.00106	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Naphthalene	U		0.00331	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00125	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Styrene	U		0.00290	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000531	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000414	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000717	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Tetrachloroethene	1.13		0.000743	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Toluene	0.00173	<u>J</u>	0.00133	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.000664	0.00265	1	09/23/2018 17:14	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00512	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000292	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000938	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Trichloroethene	0.0340		0.000425	0.00106	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000531	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00542	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	U		0.00123	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	U		0.00122	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00115	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Vinyl acetate	U	<u>JO</u>	0.00374	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Vinyl chloride	U		0.000725	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00508	0.00690	1	09/21/2018 23:15	<a href="#">WG1169827</a>
(S) Toluene-d8	90.5			75.0-131		09/21/2018 23:15	<a href="#">WG1169827</a>
(S) Toluene-d8	107			75.0-131		09/23/2018 17:14	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	98.4			65.0-129		09/21/2018 23:15	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	101			65.0-129		09/23/2018 17:14	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	99.2			67.0-138		09/21/2018 23:15	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		09/23/2018 17:14	<a href="#">WG1170348</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.2		1	09/20/2018 09:51	<a href="#">WG1168411</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.152	J	0.131	0.238	8	09/23/2018 20:49	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00226	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Benzene	U		0.000475	0.00119	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromobenzene	U		0.00125	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000936	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00134	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromoform	U		0.00710	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromomethane	U		0.00440	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00456	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00301	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00184	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Carbon disulfide	0.00631	J	0.00482	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00128	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000681	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000535	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Chloroethane	U		0.0103	0.0475	8	09/23/2018 20:49	<a href="#">WG1170348</a>
Chloroform	U		0.000493	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Chloromethane	U		0.00165	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00109	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00134	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	JO	0.00606	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000624	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Dibromomethane	U		0.00119	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00172	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00202	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00234	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000972	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000683	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000564	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1-Dichloroethene	0.0204		0.000594	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	3.42		0.00656	0.0238	8	09/23/2018 20:49	<a href="#">WG1170348</a>
trans-1,2-Dichloroethene	0.0213		0.00170	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.0121	0.0475	8	09/23/2018 20:49	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000832	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00208	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000805	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00182	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	JO	0.00166	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000942	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000416	0.00119	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Ethylbenzene	0.000966	J	0.000630	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
2-Hexanone	U		0.0119	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
n-Hexane	U		0.00126	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Iodomethane	U	J4	0.00719	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.00103	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00277	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
2-Butanone (MEK)	0.0167	J	0.0148	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00789	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/13/18 18:00

L1026432

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Naphthalene	U		0.00371	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00140	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Styrene	U		0.00324	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000594	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000463	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000802	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Tetrachloroethene	0.343		0.000832	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Toluene	0.00745		0.00148	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.00594	0.0238	8	09/23/2018 20:49	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00573	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000327	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.00105	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Trichloroethene	0.0155		0.000475	0.00119	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000594	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00606	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00156	<u>U</u>	0.00138	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00145	<u>U</u>	0.00137	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00128	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Vinyl acetate	U	<u>UO</u>	0.00418	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Vinyl chloride	0.341		0.000811	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00568	0.00772	1	09/21/2018 23:34	<a href="#">WG1169827</a>
(S) Toluene-d8	88.1			75.0-131		09/21/2018 23:34	<a href="#">WG1169827</a>
(S) Toluene-d8	104			75.0-131		09/23/2018 20:49	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	97.2			65.0-129		09/21/2018 23:34	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	99.2			65.0-129		09/23/2018 20:49	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	102			67.0-138		09/21/2018 23:34	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/23/2018 20:49	<a href="#">WG1170348</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1026432-05 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-05 WG1170348, WG1169827: Not all compounds reportable at lower dilution.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	09/20/2018 09:51	<a href="#">WG1168411</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.49	2.71	100	09/23/2018 21:13	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00206	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Benzene	U		0.000434	0.00109	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromobenzene	U		0.00114	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000855	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00123	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromoform	U		0.00649	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromomethane	U		0.00402	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00417	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00275	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00168	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00441	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00117	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000622	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000488	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Chloroethane	U		0.117	0.543	100	09/23/2018 21:13	<a href="#">WG1170348</a>
Chloroform	U		0.000450	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Chloromethane	U		0.00151	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.000999	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00123	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<a href="#">JO</a>	0.00554	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000570	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Dibromomethane	U		0.00109	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00157	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00185	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00214	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000888	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000624	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000516	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1-Dichloroethene	0.00651		0.000543	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	2.16		0.0749	0.271	100	09/23/2018 21:13	<a href="#">WG1170348</a>
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.138	0.543	100	09/23/2018 21:13	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000760	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00190	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<a href="#">JO</a>	0.00152	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000861	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000380	0.00109	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000575	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
2-Hexanone	U		0.0109	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
n-Hexane	U		0.00115	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Iodomethane	U	<a href="#">J4</a>	0.00657	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000937	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00253	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0136	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00721	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/14/18 12:35

L1026432

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Naphthalene	U		0.00339	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00128	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Styrene	U		0.00296	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000543	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Tetrachloroethene	55.8		0.0760	0.271	100	09/23/2018 21:13	<a href="#">WG1170348</a>
Toluene	0.00188	U	0.00136	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.0678	0.271	100	09/23/2018 21:13	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000298	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000958	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Trichloroethene	0.491		0.000434	0.00109	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000543	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00460	U	0.00126	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00197	U	0.00125	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	0.00184	U	0.00117	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Vinyl acetate	U	U	0.00382	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Vinyl chloride	0.132		0.000741	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00519	0.00706	1	09/21/2018 23:52	<a href="#">WG1169827</a>
(S) Toluene-d8	114			75.0-131		09/21/2018 23:52	<a href="#">WG1169827</a>
(S) Toluene-d8	103			75.0-131		09/23/2018 21:13	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	99.5			65.0-129		09/21/2018 23:52	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	99.8			65.0-129		09/23/2018 21:13	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	94.8			67.0-138		09/21/2018 23:52	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/23/2018 21:13	<a href="#">WG1170348</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1026432-06 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-06 WG1170348, WG1169827: Not all compounds reportable at lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	09/20/2018 09:51	<a href="#">WG1168411</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.49	2.72	100	09/23/2018 21:37	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00206	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Benzene	U		0.000435	0.00109	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromobenzene	U		0.00114	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000856	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00123	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromoform	U		0.00650	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromomethane	U		0.00402	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00417	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00275	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00168	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00441	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00117	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000623	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000489	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Chloroethane	U		0.117	0.543	100	09/23/2018 21:37	<a href="#">WG1170348</a>
Chloroform	U		0.000451	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Chloromethane	U		0.00151	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00100	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00123	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<a href="#">JO</a>	0.00554	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000570	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Dibromomethane	U		0.00109	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00158	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00185	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00214	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000889	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000625	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000516	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1-Dichloroethene	0.00321		0.000543	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	1.88		0.000750	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.138	0.543	100	09/23/2018 21:37	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000761	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00190	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000737	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<a href="#">JO</a>	0.00152	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000862	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000380	0.00109	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000576	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
2-Hexanone	U		0.0109	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
n-Hexane	U		0.00115	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Iodomethane	U	<a href="#">J4</a>	0.00657	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000938	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00253	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0136	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00721	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/14/18 12:55

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Naphthalene	U		0.00339	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00128	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Styrene	U		0.00297	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000543	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Tetrachloroethene	50.8		0.0761	0.272	100	09/23/2018 21:37	<a href="#">WG1170348</a>
Toluene	0.00326	<u>J</u>	0.00136	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.0679	0.272	100	09/23/2018 21:37	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000959	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Trichloroethene	0.401		0.000435	0.00109	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000543	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00425	<u>J</u>	0.00126	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00215	<u>J</u>	0.00125	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Vinyl acetate	U	<u>JO</u>	0.00382	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Vinyl chloride	0.105		0.000742	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00519	0.00706	1	09/22/2018 00:11	<a href="#">WG1169827</a>
(S) Toluene-d8	103			75.0-131		09/22/2018 00:11	<a href="#">WG1169827</a>
(S) Toluene-d8	102			75.0-131		09/23/2018 21:37	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	96.5			65.0-129		09/22/2018 00:11	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	100			65.0-129		09/23/2018 21:37	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	98.8			67.0-138		09/22/2018 00:11	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/23/2018 21:37	<a href="#">WG1170348</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1026432-07 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1026432-07 WG1170348, WG1169827: Not all compounds reportable at lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	09/20/2018 09:51	<a href="#">WG1168411</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		3.00	5.47	200	09/23/2018 22:01	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00208	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Benzene	U		0.000437	0.00109	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromobenzene	U		0.00115	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000862	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00124	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromoform	U		0.00654	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromomethane	U		0.00405	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00420	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00277	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00170	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00444	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00118	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000627	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000492	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Chloroethane	U		0.236	1.09	200	09/23/2018 22:01	<a href="#">WG1170348</a>
Chloroform	U		0.000454	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Chloromethane	U		0.00152	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00101	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00124	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00558	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000574	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Dibromomethane	U		0.00109	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00159	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00186	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00215	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000895	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000629	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000519	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1-Dichloroethene	0.0102		0.000547	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	1.04		0.000755	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	0.0126		0.00156	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.278	1.09	200	09/23/2018 22:01	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000766	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00191	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00153	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000867	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000383	0.00109	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000580	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
2-Hexanone	U		0.0109	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
n-Hexane	U		0.00116	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Iodomethane	U	<u>J4</u>	0.00662	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000944	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00255	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0137	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Methylene Chloride	0.00902	<u>J</u>	0.00726	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 09/14/18 13:40

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Naphthalene	U		0.00341	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00129	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Styrene	U		0.00299	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000547	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000427	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Tetrachloroethene	54.4		0.153	0.547	200	09/23/2018 22:01	<a href="#">WG1170348</a>
Toluene	0.00427	U	0.00137	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.137	0.547	200	09/23/2018 22:01	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000301	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000966	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Trichloroethene	1.51		0.000437	0.00109	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000547	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00558	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00512	U	0.00127	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00233	U	0.00126	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	0.00197	U	0.00118	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Vinyl acetate	U	U	0.00385	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Vinyl chloride	0.0585		0.000747	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00523	0.00711	1	09/22/2018 00:30	<a href="#">WG1169827</a>
(S) Toluene-d8	112			75.0-131		09/22/2018 00:30	<a href="#">WG1169827</a>
(S) Toluene-d8	102			75.0-131		09/23/2018 22:01	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	96.2			65.0-129		09/22/2018 00:30	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	99.9			65.0-129		09/23/2018 22:01	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		09/22/2018 00:30	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/23/2018 22:01	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1026432-08 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1026432-08 WG1170348, WG1169827: Not all compounds reportable at lower dilution.



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	09/20/2018 09:51	<a href="#">WG1168411</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.309	0.563	20	09/23/2018 22:24	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00214	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Benzene	U		0.000451	0.00113	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromobenzene	U		0.00118	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000888	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00127	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromoform	U		0.00674	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromomethane	U		0.00417	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00433	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00285	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00175	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00457	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00122	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000645	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000507	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Chloroethane	U		0.0243	0.113	20	09/23/2018 22:24	<a href="#">WG1170348</a>
Chloroform	U		0.000467	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Chloromethane	U		0.00157	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00104	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00127	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.00574	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000591	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Dibromomethane	U		0.00113	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00163	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00191	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00222	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000921	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000648	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000535	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1-Dichloroethene	U		0.000563	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	0.566		0.000777	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.0286	0.113	20	09/23/2018 22:24	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000788	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00197	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000764	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.00158	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000893	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000394	0.00113	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000597	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
2-Hexanone	U		0.0113	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
n-Hexane	U		0.00119	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Iodomethane	U	<u>J4</u>	0.00681	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000972	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00262	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0141	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Methylene Chloride	0.0109	<u>J</u>	0.00748	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/14/18 14:20

L1026432

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Naphthalene	U		0.00351	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00133	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Styrene	U		0.00307	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000563	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000439	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Tetrachloroethene	9.63		0.0158	0.0563	20	09/23/2018 22:24	<a href="#">WG1170348</a>
Toluene	0.00436	<u>J</u>	0.00141	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.0141	0.0563	20	09/23/2018 22:24	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00543	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000310	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000995	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Trichloroethene	0.347		0.000451	0.00113	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000563	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00574	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	U		0.00131	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	U		0.00130	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Vinyl acetate	U	<u>JO</u>	0.00396	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Vinyl chloride	0.0123		0.000769	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00538	0.00732	1	09/22/2018 00:49	<a href="#">WG1169827</a>
(S) Toluene-d8	102			75.0-131		09/22/2018 00:49	<a href="#">WG1169827</a>
(S) Toluene-d8	101			75.0-131		09/23/2018 22:24	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	97.5			65.0-129		09/22/2018 00:49	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	102			65.0-129		09/23/2018 22:24	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	98.4			67.0-138		09/22/2018 00:49	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/23/2018 22:24	<a href="#">WG1170348</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1026432-09 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-09 WG1170348, WG1169827: Not all compounds reportable at lower dilution.



Collected date/time: 09/14/18 00:00

L1026432

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.26	J	1.05	25.0	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Acrylonitrile	U		0.873	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Benzene	U		0.0896	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromobenzene	U		0.133	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromodichloromethane	U		0.0800	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromochloromethane	U		0.145	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromoform	U		0.186	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromomethane	U		0.157	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
n-Butylbenzene	U		0.143	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
sec-Butylbenzene	U		0.134	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
tert-Butylbenzene	U		0.183	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Carbon disulfide	U		0.101	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Carbon tetrachloride	U		0.159	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chlorobenzene	U		0.140	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chlorodibromomethane	U		0.128	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chloroethane	U		0.141	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chloroform	U		0.0860	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chloromethane	U		0.153	1.25	1	09/18/2018 13:29	<a href="#">WG1167535</a>
2-Chlorotoluene	U		0.111	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
4-Chlorotoluene	U		0.0972	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dibromoethane	U		0.193	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Dibromomethane	U		0.117	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Dichlorodifluoromethane	U		0.127	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1-Dichloroethane	U		0.114	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dichloroethane	U		0.108	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1-Dichloroethene	U		0.188	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dichloropropane	U		0.190	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1-Dichloropropene	U		0.128	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,3-Dichloropropane	U		0.147	1.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
2,2-Dichloropropane	U		0.0929	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Di-isopropyl ether	U		0.0924	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Ethylbenzene	U		0.158	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
2-Hexanone	U		0.757	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
n-Hexane	U		0.305	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Iodomethane	U		0.377	10.0	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Isopropylbenzene	U		0.126	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
p-Isopropyltoluene	U		0.138	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
2-Butanone (MEK)	U		1.28	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Methylene Chloride	U		1.07	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Methyl tert-butyl ether	U		0.102	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Naphthalene	U		0.174	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
n-Propylbenzene	U		0.162	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Styrene	U		0.117	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/14/18 00:00

L1026432

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Tetrachloroethene	U		0.199	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Toluene	U		0.412	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Trichloroethene	U		0.153	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Trichlorofluoromethane	U		0.130	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Vinyl acetate	U		0.645	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Vinyl chloride	U		0.118	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Xylenes, Total	U		0.316	1.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
(S) Toluene-d8	103			80.0-120		09/18/2018 13:29	<a href="#">WG1167535</a>
(S) Dibromofluoromethane	101			75.0-120		09/18/2018 13:29	<a href="#">WG1167535</a>
(S) 4-Bromofluorobenzene	86.4			77.0-126		09/18/2018 13:29	<a href="#">WG1167535</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3343822-1 09/20/18 11:19

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1026430-27 Original Sample (OS) • Duplicate (DUP)

(OS) L1026430-27 09/20/18 11:19 • (DUP) R3343822-3 09/20/18 11:19

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	82.0	81.9	1	0.185		10

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3343822-2 09/20/18 11:19

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

9 Sc



Method Blank (MB)

(MB) R3343810-1 09/20/18 09:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1026437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1026437-01 09/20/18 09:51 • (DUP) R3343810-3 09/20/18 09:51

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	85.5	84.2	1	1.54		10

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3343810-2 09/20/18 09:51

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3344194-3 09/18/18 10:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3344194-3 09/18/18 10:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.219	U	0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	0.190	U	0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	102			80.0-120
(S) Dibromofluoromethane	103			75.0-120
(S) 4-Bromofluorobenzene	93.2			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3344194-1 09/18/18 09:12 • (LCSD) R3344194-2 09/18/18 09:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	135	136	108	109	19.0-160			0.668	27
Acrylonitrile	125	104	111	83.6	89.0	55.0-149			6.35	20
Benzene	25.0	22.2	23.9	88.9	95.5	70.0-123			7.17	20
Bromobenzene	25.0	20.8	22.5	83.0	90.2	73.0-121			8.30	20
Bromodichloromethane	25.0	25.5	25.7	102	103	75.0-120			0.745	20
Bromochloromethane	25.0	24.3	26.3	97.2	105	76.0-122			7.85	20
Bromoform	25.0	23.8	24.8	95.0	99.2	68.0-132			4.29	20
Bromomethane	25.0	25.7	26.2	103	105	10.0-160			1.65	25
n-Butylbenzene	25.0	21.7	23.5	86.8	94.1	73.0-125			8.06	20
sec-Butylbenzene	25.0	22.7	24.2	90.8	96.7	75.0-125			6.29	20
tert-Butylbenzene	25.0	23.0	24.2	92.1	96.9	76.0-124			5.14	20
Carbon disulfide	25.0	22.8	24.2	91.2	96.8	61.0-128			6.04	20
Carbon tetrachloride	25.0	25.8	27.4	103	110	68.0-126			5.87	20
Chlorobenzene	25.0	27.3	27.6	109	111	80.0-121			1.34	20
Chlorodibromomethane	25.0	28.0	28.0	112	112	77.0-125			0.0771	20
Chloroethane	25.0	21.5	21.0	86.0	84.0	47.0-150			2.39	20
Chloroform	25.0	23.8	24.7	95.2	98.8	73.0-120			3.66	20
Chloromethane	25.0	22.6	23.6	90.3	94.3	41.0-142			4.36	20
2-Chlorotoluene	25.0	22.6	23.5	90.2	94.1	76.0-123			4.20	20
4-Chlorotoluene	25.0	21.3	23.4	85.2	93.7	75.0-122			9.47	20
1,2-Dibromo-3-Chloropropane	25.0	19.2	21.7	77.0	86.7	58.0-134			11.9	20
1,2-Dibromoethane	25.0	26.4	26.6	106	106	80.0-122			0.612	20
Dibromomethane	25.0	25.4	25.1	101	100	80.0-120			1.05	20
1,2-Dichlorobenzene	25.0	23.7	24.3	94.7	97.1	79.0-121			2.46	20
1,3-Dichlorobenzene	25.0	26.1	27.0	104	108	79.0-120			3.65	20
1,4-Dichlorobenzene	25.0	21.5	23.0	86.0	92.1	79.0-120			6.86	20
Dichlorodifluoromethane	25.0	24.3	27.1	97.2	108	51.0-149			10.7	20
1,1-Dichloroethane	25.0	21.1	22.3	84.5	89.3	70.0-126			5.59	20
1,2-Dichloroethane	25.0	25.9	27.6	104	110	70.0-128			6.01	20
1,1-Dichloroethene	25.0	23.2	23.1	92.9	92.3	71.0-124			0.624	20
cis-1,2-Dichloroethene	25.0	21.4	23.6	85.7	94.2	73.0-120			9.45	20
trans-1,2-Dichloroethene	25.0	23.4	24.4	93.7	97.5	73.0-120			3.91	20
1,2-Dichloropropane	25.0	22.0	21.6	88.0	86.3	77.0-125			2.01	20
1,1-Dichloropropene	25.0	23.5	25.9	94.1	104	74.0-126			9.54	20
1,3-Dichloropropane	25.0	26.5	26.0	106	104	80.0-120			1.78	20
cis-1,3-Dichloropropene	25.0	26.2	26.6	105	106	80.0-123			1.62	20
trans-1,3-Dichloropropene	25.0	27.7	26.9	111	108	78.0-124			2.91	20
trans-1,4-Dichloro-2-butene	25.0	25.2	25.3	101	101	33.0-144			0.101	20
2,2-Dichloropropane	25.0	23.6	24.9	94.5	99.5	58.0-130			5.13	20
Di-isopropyl ether	25.0	22.0	23.0	88.1	92.1	58.0-138			4.50	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3344194-1 09/18/18 09:12 • (LCSD) R3344194-2 09/18/18 09:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	25.0	28.1	27.8	113	111	79.0-123			1.30	20
Hexachloro-1,3-butadiene	25.0	23.8	24.4	95.3	97.5	54.0-138			2.27	20
2-Hexanone	125	122	121	98.0	96.8	67.0-149			1.21	20
n-Hexane	25.0	21.5	22.6	86.1	90.5	57.0-133			4.98	20
Iodomethane	125	126	132	100	106	33.0-147			5.32	26
Isopropylbenzene	25.0	21.8	23.2	87.1	92.8	76.0-127			6.36	20
p-Isopropyltoluene	25.0	23.3	25.1	93.2	100	76.0-125			7.41	20
2-Butanone (MEK)	125	110	111	87.9	89.0	44.0-160			1.30	20
Methylene Chloride	25.0	22.4	23.2	89.4	92.8	67.0-120			3.71	20
4-Methyl-2-pentanone (MIBK)	125	125	124	100	99.6	68.0-142			0.771	20
Methyl tert-butyl ether	25.0	23.5	24.8	94.2	99.1	68.0-125			5.12	20
Naphthalene	25.0	17.9	20.0	71.8	80.0	54.0-135			10.8	20
n-Propylbenzene	25.0	22.6	24.8	90.3	99.2	77.0-124			9.39	20
Styrene	25.0	20.2	21.8	80.6	87.1	73.0-130			7.66	20
1,1,1,2-Tetrachloroethane	25.0	27.7	28.4	111	114	75.0-125			2.62	20
1,1,2,2-Tetrachloroethane	25.0	19.3	20.2	77.3	81.0	65.0-130			4.70	20
1,1,2-Trichlorotrifluoroethane	25.0	25.2	26.8	101	107	69.0-132			6.27	20
Tetrachloroethene	25.0	29.2	27.5	117	110	72.0-132			5.78	20
Toluene	25.0	25.8	25.6	103	103	79.0-120			0.672	20
1,2,3-Trichlorobenzene	25.0	19.7	21.9	78.8	87.7	50.0-138			10.7	20
1,2,4-Trichlorobenzene	25.0	22.8	24.1	91.3	96.5	57.0-137			5.45	20
1,1,1-Trichloroethane	25.0	26.1	27.3	105	109	73.0-124			4.49	20
1,1,2-Trichloroethane	25.0	25.4	26.8	101	107	80.0-120			5.65	20
Trichloroethene	25.0	25.7	26.3	103	105	78.0-124			2.18	20
Trichlorofluoromethane	25.0	28.3	29.5	113	118	59.0-147			4.40	20
1,2,3-Trichloropropane	25.0	24.4	25.4	97.7	102	73.0-130			4.08	20
1,2,4-Trimethylbenzene	25.0	23.1	24.1	92.4	96.4	76.0-121			4.23	20
1,2,3-Trimethylbenzene	25.0	23.2	24.2	92.6	96.9	77.0-120			4.53	20
1,3,5-Trimethylbenzene	25.0	23.0	22.0	92.0	87.9	76.0-122			4.64	20
Vinyl acetate	125	60.8	64.0	48.6	51.2	11.0-160			5.19	20
Vinyl chloride	25.0	21.7	23.5	86.9	93.9	67.0-131			7.79	20
Xylenes, Total	75.0	81.9	82.0	109	109	79.0-123			0.122	20
(S) Toluene-d8				105	104	80.0-120				
(S) Dibromofluoromethane				98.2	105	75.0-120				
(S) 4-Bromofluorobenzene				84.4	89.5	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3344298-2 09/21/18 19:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3344298-2 09/21/18 19:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	114			75.0-131
(S) Dibromofluoromethane	96.8			65.0-129
(S) 4-Bromofluorobenzene	98.3			67.0-138

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3344298-1 09/21/18 17:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	0.625	0.616	98.6	45.0-153	
Benzene	0.125	0.124	98.9	70.0-123	



Laboratory Control Sample (LCS)

(LCS) R3344298-1 09/21/18 17:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromobenzene	0.125	0.130	104	73.0-121	
Bromodichloromethane	0.125	0.135	108	73.0-121	
Bromochloromethane	0.125	0.126	101	77.0-128	
Bromoform	0.125	0.120	95.8	64.0-132	
Bromomethane	0.125	0.149	120	56.0-147	
n-Butylbenzene	0.125	0.133	106	68.0-135	
sec-Butylbenzene	0.125	0.133	106	74.0-130	
tert-Butylbenzene	0.125	0.142	113	75.0-127	
Carbon disulfide	0.125	0.131	104	56.0-133	
Carbon tetrachloride	0.125	0.146	117	66.0-128	
Chlorobenzene	0.125	0.120	96.0	76.0-128	
Chlorodibromomethane	0.125	0.135	108	74.0-127	
Chloroform	0.125	0.113	90.3	72.0-123	
Chloromethane	0.125	0.132	106	51.0-138	
2-Chlorotoluene	0.125	0.141	113	75.0-124	
4-Chlorotoluene	0.125	0.131	105	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.111	89.0	59.0-130	
1,2-Dibromoethane	0.125	0.141	113	74.0-128	
Dibromomethane	0.125	0.134	107	75.0-122	
1,2-Dichlorobenzene	0.125	0.134	107	76.0-124	
1,3-Dichlorobenzene	0.125	0.135	108	76.0-125	
1,4-Dichlorobenzene	0.125	0.130	104	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.112	89.5	45.0-143	
Dichlorodifluoromethane	0.125	0.131	105	43.0-156	
1,1-Dichloroethane	0.125	0.127	102	70.0-127	
1,2-Dichloroethane	0.125	0.116	92.5	65.0-131	
1,1-Dichloroethene	0.125	0.126	101	65.0-131	
cis-1,2-Dichloroethene	0.125	0.143	115	73.0-125	
trans-1,2-Dichloroethene	0.125	0.135	108	71.0-125	
1,1-Dichloropropene	0.125	0.135	108	73.0-125	
1,3-Dichloropropane	0.125	0.132	106	80.0-125	
cis-1,3-Dichloropropene	0.125	0.130	104	76.0-127	
trans-1,3-Dichloropropene	0.125	0.133	107	73.0-127	
2,2-Dichloropropane	0.125	0.165	132	59.0-135	
Di-isopropyl ether	0.125	0.102	81.5	60.0-136	
Ethylbenzene	0.125	0.147	118	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.119	94.9	57.0-150	
2-Hexanone	0.625	0.539	86.3	54.0-147	
n-Hexane	0.125	0.117	93.9	55.0-137	
Iodomethane	0.625	0.881	141	74.0-134	J4

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS)

(LCS) R3344298-1 09/21/18 17:46

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Isopropylbenzene	0.125	0.141	113	72.0-127	
p-Isopropyltoluene	0.125	0.139	111	72.0-133	
2-Butanone (MEK)	0.625	0.555	88.8	30.0-160	
Methylene Chloride	0.125	0.128	102	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.508	81.3	56.0-143	
Methyl tert-butyl ether	0.125	0.125	99.7	66.0-132	
Naphthalene	0.125	0.131	105	59.0-130	
n-Propylbenzene	0.125	0.135	108	74.0-126	
Styrene	0.125	0.126	101	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.148	118	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.114	90.9	68.0-128	
Tetrachloroethene	0.125	0.131	105	70.0-136	
Toluene	0.125	0.137	110	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.148	119	61.0-139	
1,2,4-Trichlorobenzene	0.125	0.121	96.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.135	108	69.0-126	
1,1,2-Trichloroethane	0.125	0.126	101	78.0-123	
Trichloroethene	0.125	0.143	115	76.0-126	
Trichlorofluoromethane	0.125	0.149	119	61.0-142	
1,2,3-Trichloropropane	0.125	0.121	96.9	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.127	101	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.130	104	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.130	104	73.0-127	
Vinyl acetate	0.625	0.341	54.5	43.0-159	
Vinyl chloride	0.125	0.123	98.4	63.0-134	
Xylenes, Total	0.375	0.419	112	72.0-127	
(S) Toluene-d8			111	75.0-131	
(S) Dibromofluoromethane			99.2	65.0-129	
(S) 4-Bromofluorobenzene			97.3	67.0-138	

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

L1026432-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1026432-09 09/22/18 00:49 • (MS) R3344298-3 09/21/18 19:46 • (MSD) R3344298-4 09/21/18 20:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Acrylonitrile	0.704	U	0.608	0.417	86.4	59.2	1	10.0-160			37.3	40
Benzene	0.141	U	0.114	0.115	80.7	81.6	1	10.0-149			1.09	37
Bromobenzene	0.141	U	0.117	0.131	83.2	93.1	1	10.0-156			11.1	38
Bromodichloromethane	0.141	U	0.126	0.129	89.4	91.9	1	10.0-143			2.74	37



L1026432-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1026432-09 09/22/18 00:49 • (MS) R3344298-3 09/21/18 19:46 • (MSD) R3344298-4 09/21/18 20:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Bromochloromethane	0.141	U	0.117	0.111	83.2	79.1	1	10.0-155			5.03	33
Bromoform	0.141	U	0.112	0.119	79.6	84.3	1	10.0-146			5.65	36
Bromomethane	0.141	U	0.0790	0.0736	56.1	52.3	1	10.0-149			7.13	38
n-Butylbenzene	0.141	U	0.120	0.143	84.9	102	1	10.0-160			17.9	40
sec-Butylbenzene	0.141	U	0.116	0.143	82.6	102	1	10.0-159			20.9	39
tert-Butylbenzene	0.141	U	0.123	0.150	87.5	107	1	10.0-156			19.6	39
Carbon disulfide	0.141	U	0.0980	0.0984	69.6	69.9	1	10.0-145			0.391	39
Carbon tetrachloride	0.141	U	0.132	0.140	94.0	99.3	1	10.0-145			5.47	37
Chlorobenzene	0.141	U	0.0862	0.101	61.2	71.7	1	10.0-152			15.7	39
Chlorodibromomethane	0.141	U	0.102	0.119	72.7	84.6	1	10.0-146			15.1	37
Chloroform	0.141	U	0.110	0.105	77.9	74.8	1	10.0-146			4.04	37
Chloromethane	0.141	U	0.111	0.112	78.9	79.7	1	10.0-159			0.939	37
2-Chlorotoluene	0.141	U	0.121	0.136	85.9	96.9	1	10.0-159			12.0	38
4-Chlorotoluene	0.141	U	0.112	0.130	79.5	92.5	1	10.0-155			15.1	39
1,2-Dibromo-3-Chloropropane	0.141	U	0.0884	0.0897	62.8	63.7	1	10.0-151			1.43	39
1,2-Dibromoethane	0.141	U	0.107	0.121	75.9	85.8	1	10.0-148			12.3	34
Dibromomethane	0.141	U	0.126	0.119	89.2	84.2	1	10.0-147			5.71	35
1,2-Dichlorobenzene	0.141	U	0.114	0.130	81.1	92.3	1	10.0-155			12.9	37
1,3-Dichlorobenzene	0.141	U	0.113	0.134	80.3	95.3	1	10.0-153			17.1	38
1,4-Dichlorobenzene	0.141	U	0.115	0.130	81.7	92.0	1	10.0-151			11.9	38
trans-1,4-Dichloro-2-butene	0.141	U	0.105	0.110	74.7	78.1	1	10.0-152			4.43	36
Dichlorodifluoromethane	0.141	U	0.143	0.140	102	99.2	1	10.0-160			2.42	35
1,1-Dichloroethane	0.141	U	0.123	0.119	87.3	84.3	1	10.0-147			3.39	37
1,2-Dichloroethane	0.141	U	0.112	0.106	79.9	75.4	1	10.0-148			5.78	35
1,1-Dichloroethene	0.141	U	0.114	0.116	81.2	82.4	1	10.0-155			1.43	37
cis-1,2-Dichloroethene	0.141	0.566	0.750	0.683	130	82.7	1	10.0-149			9.35	37
trans-1,2-Dichloroethene	0.141	U	0.123	0.126	87.3	89.6	1	10.0-150			2.58	37
1,1-Dichloropropene	0.141	U	0.120	0.119	85.5	84.5	1	10.0-153			1.19	35
1,3-Dichloropropane	0.141	U	0.0991	0.118	70.4	84.0	1	10.0-154			17.6	35
cis-1,3-Dichloropropene	0.141	U	0.0976	0.112	69.3	79.9	1	10.0-151			14.2	37
trans-1,3-Dichloropropene	0.141	U	0.101	0.116	71.9	82.4	1	10.0-148			13.6	37
2,2-Dichloropropane	0.141	U	0.150	0.151	107	107	1	10.0-138			0.627	36
Di-isopropyl ether	0.141	U	0.0961	0.0939	68.2	66.7	1	10.0-147			2.26	36
Ethylbenzene	0.141	U	0.108	0.125	76.4	88.5	1	10.0-160			14.7	38
Hexachloro-1,3-butadiene	0.141	U	0.0985	0.133	70.0	94.5	1	10.0-160			29.8	40
2-Hexanone	0.704	U	0.352	0.371	50.0	52.7	1	10.0-160			5.35	36
n-Hexane	0.141	U	0.121	0.106	85.8	75.6	1	10.0-157			12.7	37
Iodomethane	0.704	U	0.758	0.742	108	105	1	10.0-160			2.20	38
Isopropylbenzene	0.141	U	0.120	0.142	85.1	101	1	10.0-155			17.3	38

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



L1026432-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1026432-09 09/22/18 00:49 • (MS) R3344298-3 09/21/18 19:46 • (MSD) R3344298-4 09/21/18 20:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
p-Isopropyltoluene	0.141	U	0.115	0.140	81.4	99.2	1	10.0-160			19.7	40
2-Butanone (MEK)	0.704	U	0.688	0.577	97.8	82.0	1	10.0-160			17.5	40
Methylene Chloride	0.141	0.0109	0.126	0.122	81.7	78.6	1	10.0-141			3.46	37
4-Methyl-2-pentanone (MIBK)	0.704	U	0.371	0.394	52.7	56.0	1	10.0-160			6.08	35
Methyl tert-butyl ether	0.141	U	0.0959	0.100	68.1	71.1	1	11.0-147			4.35	35
Naphthalene	0.141	U	0.111	0.118	78.7	83.5	1	10.0-160			5.95	36
n-Propylbenzene	0.141	U	0.116	0.137	82.2	97.5	1	10.0-158			17.0	38
Styrene	0.141	U	0.115	0.130	81.8	92.6	1	10.0-160			12.4	40
1,1,1,2-Tetrachloroethane	0.141	U	0.109	0.127	77.6	90.1	1	10.0-149			14.9	39
1,1,2,2-Tetrachloroethane	0.141	U	0.111	0.113	79.0	80.5	1	10.0-160			1.82	35
Tetrachloroethene	0.141	8.66	7.66	8.45	0.000	0.000	1	10.0-156	<u>EV</u>	<u>EV</u>	9.81	39
Toluene	0.141	0.00436	0.104	0.123	70.9	84.0	1	10.0-156			16.2	38
1,1,2-Trichlorotrifluoroethane	0.141	U	0.136	0.148	96.6	105	1	10.0-160			8.34	36
1,2,4-Trichlorobenzene	0.141	U	0.0999	0.127	71.0	89.9	1	10.0-160			23.5	40
1,1,1-Trichloroethane	0.141	U	0.121	0.127	85.9	90.1	1	10.0-144			4.80	35
1,1,2-Trichloroethane	0.141	U	0.0960	0.112	68.2	79.2	1	10.0-160			15.0	35
Trichloroethene	0.141	0.347	0.464	0.469	82.9	86.6	1	10.0-156			1.12	38
Trichlorofluoromethane	0.141	U	0.0805	0.0721	57.2	51.2	1	10.0-160			11.1	40
1,2,3-Trichloropropane	0.141	U	0.105	0.106	74.4	75.6	1	10.0-156			1.59	35
1,2,3-Trimethylbenzene	0.141	U	0.106	0.123	75.3	87.2	1	10.0-160			14.6	36
1,2,4-Trimethylbenzene	0.141	U	0.113	0.132	80.4	93.7	1	10.0-160			15.3	36
1,3,5-Trimethylbenzene	0.141	U	0.110	0.132	78.4	94.1	1	10.0-160			18.3	38
Vinyl acetate	0.704	U	0.413	0.416	58.7	59.1	1	10.0-128			0.661	40
Vinyl chloride	0.141	0.0123	0.112	0.105	70.5	66.1	1	10.0-160			5.70	37
Xylenes, Total	0.422	U	0.317	0.364	75.1	86.1	1	10.0-160			13.7	38
(S) Toluene-d8					93.9	100		75.0-131				
(S) Dibromofluoromethane					112	95.8		65.0-129				
(S) 4-Bromofluorobenzene					95.9	97.6		67.0-138				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Sample Narrative:

OS: Not all compounds reportable at lower dilution.



Method Blank (MB)

(MB) R3344378-3 09/23/18 14:06

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Chloroethane	U		0.00108	0.00500
cis-1,2-Dichloroethene	U		0.000690	0.00250
1,2-Dichloropropane	U		0.00127	0.00500
Tetrachloroethene	U		0.000700	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
(S) Toluene-d8	107			75.0-131
(S) Dibromofluoromethane	98.2			65.0-129
(S) 4-Bromofluorobenzene	99.9			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3344378-1 09/23/18 11:12 • (LCSD) R3344378-2 09/23/18 11:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.597	0.522	95.6	83.5	10.0-160			13.5	31
Chloroethane	0.125	0.111	0.101	89.1	80.6	61.0-134			10.0	20
cis-1,2-Dichloroethene	0.125	0.125	0.113	100	90.5	73.0-125			10.3	20
1,2-Dichloropropane	0.125	0.117	0.106	93.5	84.9	74.0-125			9.56	20
Tetrachloroethene	0.125	0.145	0.132	116	105	70.0-136			9.98	20
1,2,3-Trichlorobenzene	0.125	0.117	0.109	93.7	86.9	59.0-139			7.52	20
(S) Toluene-d8				101	102	75.0-131				
(S) Dibromofluoromethane				94.9	94.1	65.0-129				
(S) 4-Bromofluorobenzene				102	104	67.0-138				



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J4	The associated batch QC was outside the established quality control range for accuracy.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

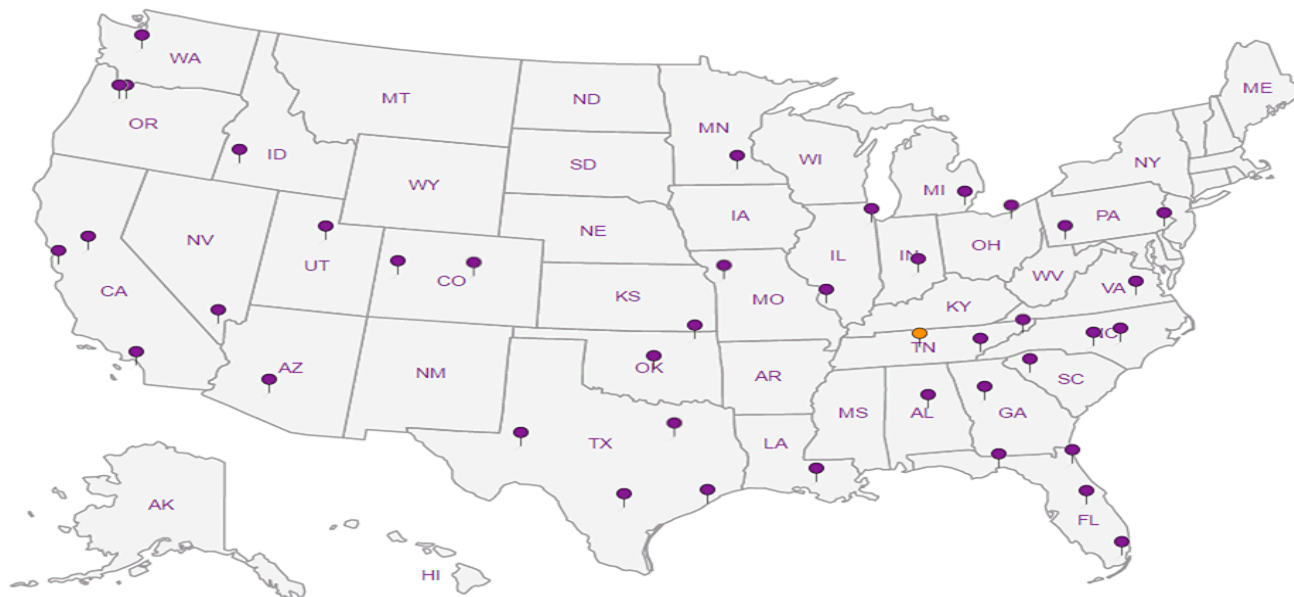
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

S Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com

Project  
Description: American Linen

City/State  
Collected: Seattle, WA

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.304

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
S. McKernan

Site/Facility ID #  
1413.001.05.304

P.O. #

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)  
Same Day Five Day  
Next Day 5 Day (Rad Only)  
Two Day 10 Day (Rad Only)  
Three Day

Quote #  
Date Results Needed

Immediately Packed on ice: N  Y

No. of  
Cnts

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts
1W-54A-8	GRAB	SSGW	8	9/12/18	1340	2
1W-54A-49	↓	GW	49	↓	1740	2
1W-55B-43	↓	GW	43	9/13/18	1515	2
1W-55B-39	↓	GW	39	↓	1440	2
1W-55B-61	↓	↓	61	↓	1800	2
1W-12d-42	GRAB	SS	42	9/14/18	1235	2
B-928-42	↓	↓	42	9/14/18	1255	2
1W-12d-50	↓	↓	50	↓	1340	2
1W-12d-55	↓	↓	55	↓	1410	2
1W-12d-60	↓	↓	60	↓	1420	2

\* Matrix: BLANK-091418  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - Waste Water  
DW - Drinking Water  
OT - Other

Remarks:

RAD SCREEN: <0.5 mP/hr

Samples returned via:  
UPS  FedEx  Courier

Tracking # 4510 1654 1910

Relinquished by: (Signature)

Date: 9/14/18  
Time: 1600

Received by: (Signature)

Trip Blank Received:  No  
 MeOH  
 TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received by: (Signature)

Temp: °C 1.0+02-1.25  
Bottles Received: 20

Relinquished by: (Signature)

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received for lab by: (Signature)

Date: 9/15/18  
Time: 245

Analysis / Container / Preservative

VOCs V8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip blk V8260LLC 40mlAmb-HCl-Bik

Chain of Custody Page 1 of 3

**Pace Analytical**  
National Center for Testing & Innovation

12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# L1026432  
C035

Acctnum: PESENVSWA  
Template: T139825  
Prelogin: P668288  
TSR: 110 - Brian Ford  
PB:  
Shipped Via: FedEX Ground

Remarks	Sample # (lab only)
	01
	02
	03
	04
	05
	06
	07
	08
HOLD	
	09

Sample Receipt Checklist

COC Seal Present/Intact:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
COC Signed/Accurate:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Bottles arrive intact:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Correct bottles used:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Sufficient volume sent:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
If Applicable	
VCA Zero Headspace:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Preservation Correct/Checked:	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

If preservation required by Login: Date/Time

09-0071 Condition: VCF / OK



October 05, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1029197  
Samples Received: 09/22/2018  
Project Number: 1413.001.05.304  
Description: American Linen  
Site: 1413.001.05.304  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>5</b>	
<b>Sr: Sample Results</b>	<b>6</b>	<b>3</b> Ss
IW-13D-80 L1029197-01	6	
IW-13D-85 L1029197-02	8	<b>4</b> Cn
IW-13D-95 L1029197-03	10	<b>5</b> Sr
IW-28C-92 L1029197-04	12	
IW-53B-30 L1029197-05	14	<b>6</b> Qc
IW-12D-85 L1029197-06	16	
IW-12D-95 L1029197-07	18	<b>7</b> Gl
<b>Qc: Quality Control Summary</b>	<b>20</b>	<b>8</b> Al
Total Solids by Method 2540 G-2011	20	
Volatile Organic Compounds (GC/MS) by Method 8260C	21	<b>9</b> Sc
<b>Gl: Glossary of Terms</b>	<b>29</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>30</b>	
<b>Sc: Sample Chain of Custody</b>	<b>31</b>	

# SAMPLE SUMMARY



## IW-13D-80 L1029197-01 Solid

Collected by  
Ben Hecht  
Collected date/time  
09/18/18 16:00  
Received date/time  
09/22/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172388	1	09/27/18 14:15	09/27/18 14:37	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173458	1	09/18/18 16:00	09/29/18 15:46	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173651	80	09/18/18 16:00	10/01/18 17:18	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1174156	80	09/18/18 16:00	10/01/18 22:09	JAH

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## IW-13D-85 L1029197-02 Solid

Collected by  
Ben Hecht  
Collected date/time  
09/18/18 16:40  
Received date/time  
09/22/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172388	1	09/27/18 14:15	09/27/18 14:37	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173458	1	09/18/18 16:40	09/29/18 16:06	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173651	1	09/18/18 16:40	10/01/18 16:38	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1174156	1	09/18/18 16:40	10/01/18 21:29	JAH

## IW-13D-95 L1029197-03 Solid

Collected by  
Ben Hecht  
Collected date/time  
09/18/18 17:20  
Received date/time  
09/22/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172388	1	09/27/18 14:15	09/27/18 14:37	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173458	1	09/18/18 17:20	09/29/18 16:27	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173651	1	09/18/18 17:20	10/01/18 16:58	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1174156	1	09/18/18 17:20	10/01/18 21:49	JAH

## IW-28C-92 L1029197-04 Solid

Collected by  
Ben Hecht  
Collected date/time  
09/18/18 16:02  
Received date/time  
09/22/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172388	1	09/27/18 14:15	09/27/18 14:37	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173458	1	09/18/18 16:02	09/29/18 16:47	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173651	4	09/18/18 16:02	10/01/18 17:38	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1174156	4	09/18/18 16:02	10/01/18 22:29	JAH

## IW-53B-30 L1029197-05 Solid

Collected by  
Ben Hecht  
Collected date/time  
09/20/18 15:30  
Received date/time  
09/22/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172388	1	09/27/18 14:15	09/27/18 14:37	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173458	1	09/20/18 15:30	09/29/18 17:08	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173651	10	09/20/18 15:30	10/01/18 17:57	BMB

## IW-12D-85 L1029197-06 Solid

Collected by  
Ben Hecht  
Collected date/time  
09/17/18 11:25  
Received date/time  
09/22/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172388	1	09/27/18 14:15	09/27/18 14:37	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173458	1	09/17/18 11:25	09/29/18 17:28	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173651	20	09/17/18 11:25	10/01/18 12:57	BMB

# SAMPLE SUMMARY



IW-12D-95 L1029197-07 Solid

Collected by: Ben Hecht  
 Collected date/time: 09/17/18 12:40  
 Received date/time: 09/22/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1172388	1	09/27/18 14:15	09/27/18 14:37	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173458	1	09/17/18 12:40	09/29/18 17:49	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1173651	4	09/17/18 12:40	10/01/18 13:17	BMB

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.6		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.21	2.21	80	10/01/2018 17:18	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00210	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Benzene	U		0.000441	0.00110	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromobenzene	U		0.00116	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000869	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00125	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromoform	U		0.00660	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromomethane	U		0.00408	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00424	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00279	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00171	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00448	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00119	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000632	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000496	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chloroethane	U		0.00119	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chloroform	U		0.000458	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chloromethane	U		0.00153	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00102	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00125	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00563	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000579	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Dibromomethane	U		0.00110	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00160	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00188	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00217	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000903	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000634	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000524	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1-Dichloroethene	0.0362		0.000552	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.157		0.000761	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	0.00404	J	0.00158	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.113	0.441	80	10/01/2018 17:18	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000772	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00193	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000748	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00169	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00154	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000875	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000386	0.00110	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Ethylbenzene	0.000719	J	0.000585	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		1.13	2.21	80	10/01/2018 17:18	<a href="#">WG1173651</a>
2-Hexanone	U		0.0110	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
n-Hexane	0.00405	J JO	0.00117	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Iodomethane	U		0.00668	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000952	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00257	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		1.10	2.21	80	10/01/2018 17:18	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00733	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Naphthalene	U		0.00344	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00130	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Styrene	U		0.00301	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000552	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000745	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Tetrachloroethene	31.4		0.0618	0.221	80	10/01/2018 17:18	<a href="#">WG1173651</a>
Toluene	0.00447	J	0.00138	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000690	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000303	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.0779	0.221	80	10/01/2018 17:18	<a href="#">WG1173651</a>
Trichloroethene	1.21		0.0353	0.0883	80	10/01/2018 22:09	<a href="#">WG1174156</a>
Trichlorofluoromethane	U		0.000552	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00563	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	0.00240	J	0.00128	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	0.00129	J	0.00127	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00119	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Vinyl acetate	U	JO J4	0.00388	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Vinyl chloride	0.0191		0.000754	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Xylenes, Total	0.00585	J	0.00527	0.00717	1	09/29/2018 15:46	<a href="#">WG1173458</a>
(S) Toluene-d8	117			75.0-131		09/29/2018 15:46	<a href="#">WG1173458</a>
(S) Toluene-d8	106			75.0-131		10/01/2018 17:18	<a href="#">WG1173651</a>
(S) Toluene-d8	106			75.0-131		10/01/2018 22:09	<a href="#">WG1174156</a>
(S) Dibromofluoromethane	106			65.0-129		09/29/2018 15:46	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	109			65.0-129		10/01/2018 17:18	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	99.5			65.0-129		10/01/2018 22:09	<a href="#">WG1174156</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/29/2018 15:46	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/01/2018 17:18	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	110			67.0-138		10/01/2018 22:09	<a href="#">WG1174156</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0158	0.0288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00219	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Benzene	U		0.000460	0.00115	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromobenzene	U		0.00121	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000907	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00130	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromoform	U		0.00688	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromomethane	U		0.00426	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00442	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00291	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00178	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00467	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00124	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000660	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000518	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chloroethane	U		0.00124	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chloroform	U		0.000478	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chloromethane	U		0.00160	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00106	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00130	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00587	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000604	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Dibromomethane	U		0.00115	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00167	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00196	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00227	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000942	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000662	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000547	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1-Dichloroethene	0.00620		0.000576	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.0220		0.000794	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	0.00499	J	0.00165	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.00146	0.00576	1	10/01/2018 16:38	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000806	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00201	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000780	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00176	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00161	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000913	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000403	0.00115	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000610	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.0146	0.0288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
2-Hexanone	U		0.0115	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
n-Hexane	U	JO	0.00122	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Iodomethane	U		0.00696	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000993	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00268	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
2-Butanone (MEK)	0.0211	J	0.0144	0.0288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00764	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/18/18 16:40

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000340	0.00115	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Naphthalene	U		0.00359	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00136	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Styrene	U		0.00314	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000449	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000777	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Tetrachloroethene	0.205		0.000806	0.00288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
Toluene	0.00178	J	0.00144	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000719	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00555	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000317	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00102	0.00288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
Trichloroethene	0.202		0.000460	0.00115	1	10/01/2018 21:29	<a href="#">WG1174156</a>
Trichlorofluoromethane	U		0.000576	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00587	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00132	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00124	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Vinyl acetate	U	JO J4	0.00405	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Vinyl chloride	U		0.000786	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00550	0.00748	1	09/29/2018 16:06	<a href="#">WG1173458</a>
(S) Toluene-d8	111			75.0-131		09/29/2018 16:06	<a href="#">WG1173458</a>
(S) Toluene-d8	104			75.0-131		10/01/2018 16:38	<a href="#">WG1173651</a>
(S) Toluene-d8	104			75.0-131		10/01/2018 21:29	<a href="#">WG1174156</a>
(S) Dibromofluoromethane	108			65.0-129		09/29/2018 16:06	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	107			65.0-129		10/01/2018 16:38	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	99.8			65.0-129		10/01/2018 21:29	<a href="#">WG1174156</a>
(S) 4-Bromofluorobenzene	108			67.0-138		09/29/2018 16:06	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/01/2018 16:38	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	104			67.0-138		10/01/2018 21:29	<a href="#">WG1174156</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	09/27/2018 14:37	<a href="#">WG1172388</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0165	0.0301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00229	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Benzene	U		0.000481	0.00120	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromobenzene	U		0.00126	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000948	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00136	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromoform	U		0.00720	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromomethane	U		0.00445	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00462	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00304	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00187	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00489	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00130	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000690	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000542	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chloroethane	U		0.00130	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chloroform	U		0.000499	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chloromethane	U		0.00167	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00111	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00136	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00614	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000632	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Dibromomethane	U		0.00120	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00175	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00205	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00237	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000984	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000692	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000572	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1-Dichloroethene	U		0.000602	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.00113	J	0.000830	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	U		0.00172	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.00153	0.00602	1	10/01/2018 16:58	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000842	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00211	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000816	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00184	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00168	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000954	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000421	0.00120	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000638	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.0153	0.0301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
2-Hexanone	U		0.0120	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
n-Hexane	U	JO	0.00128	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Iodomethane	U		0.00728	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.00104	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00280	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
2-Butanone (MEK)	0.0213	J	0.0150	0.0301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00799	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/18/18 17:20

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Naphthalene	U		0.00376	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00142	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Styrene	U		0.00329	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000602	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000469	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000812	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Tetrachloroethene	0.00194	<u>L</u>	0.000842	0.00301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
Toluene	0.00171	<u>L</u>	0.00150	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000752	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00580	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00106	0.00301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
Trichloroethene	0.00168		0.000481	0.00120	1	10/01/2018 21:49	<a href="#">WG1174156</a>
Trichlorofluoromethane	U		0.000602	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00614	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00140	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00138	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00130	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Vinyl acetate	U	<u>JO J4</u>	0.00424	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Vinyl chloride	U		0.000822	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00575	0.00782	1	09/29/2018 16:27	<a href="#">WG1173458</a>
(S) Toluene-d8	111			75.0-131		09/29/2018 16:27	<a href="#">WG1173458</a>
(S) Toluene-d8	108			75.0-131		10/01/2018 16:58	<a href="#">WG1173651</a>
(S) Toluene-d8	98.8			75.0-131		10/01/2018 21:49	<a href="#">WG1174156</a>
(S) Dibromofluoromethane	106			65.0-129		09/29/2018 16:27	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	105			65.0-129		10/01/2018 16:58	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	104			65.0-129		10/01/2018 21:49	<a href="#">WG1174156</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/29/2018 16:27	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	112			67.0-138		10/01/2018 16:58	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/01/2018 21:49	<a href="#">WG1174156</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0596	0.109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00207	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Benzene	U		0.000435	0.00109	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromobenzene	U		0.00114	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000857	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00123	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromoform	U		0.00650	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromomethane	U		0.00402	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00417	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00275	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00168	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00441	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00117	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000623	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000489	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chloroethane	U		0.00117	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chloroform	U		0.000451	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chloromethane	U		0.00151	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00100	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00123	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000571	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Dibromomethane	U		0.00109	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00158	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00185	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00214	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000889	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000625	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	<a href="#">J4</a>	0.000516	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1-Dichloroethene	U		0.000544	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.0103		0.000750	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	U		0.00155	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.00552	0.0217	4	10/01/2018 17:38	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000761	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00190	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000737	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000862	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000380	0.00109	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000576	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.0552	0.109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
2-Hexanone	U		0.0109	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
n-Hexane	0.00228	<a href="#">J JO</a>	0.00115	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Iodomethane	U		0.00658	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000938	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00253	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		0.0544	0.109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00722	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/18/18 16:02

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Naphthalene	U		0.00339	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00128	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Styrene	U		0.00297	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000734	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Tetrachloroethene	0.983		0.00304	0.0109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
Toluene	0.00168	J	0.00136	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000679	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00384	0.0109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
Trichloroethene	0.00290	J	0.00174	0.00435	4	10/01/2018 22:29	<a href="#">WG1174156</a>
Trichlorofluoromethane	U		0.000544	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00125	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00117	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Vinyl acetate	U	JO J4	0.00383	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Vinyl chloride	U		0.000742	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00520	0.00707	1	09/29/2018 16:47	<a href="#">WG1173458</a>
(S) Toluene-d8	111			75.0-131		09/29/2018 16:47	<a href="#">WG1173458</a>
(S) Toluene-d8	92.9			75.0-131		10/01/2018 17:38	<a href="#">WG1173651</a>
(S) Toluene-d8	92.7			75.0-131		10/01/2018 22:29	<a href="#">WG1174156</a>
(S) Dibromofluoromethane	109			65.0-129		09/29/2018 16:47	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	111			65.0-129		10/01/2018 17:38	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	103			65.0-129		10/01/2018 22:29	<a href="#">WG1174156</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/29/2018 16:47	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/01/2018 17:38	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	115			67.0-138		10/01/2018 22:29	<a href="#">WG1174156</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.149	0.272	10	10/01/2018 17:57	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00207	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Benzene	0.000505	J	0.000435	0.00109	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromobenzene	U		0.00114	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000857	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00123	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromoform	U		0.00651	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromomethane	U		0.00402	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00418	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00275	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00169	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00442	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00117	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000623	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000490	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chloroethane	U		0.00117	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chloroform	U		0.000451	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chloromethane	U		0.00151	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00100	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00123	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000571	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Dibromomethane	U		0.00109	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00158	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00185	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00214	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000890	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000626	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000517	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1-Dichloroethene	0.000563	J	0.000544	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.171		0.000751	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	0.00381	J	0.00156	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.0138	0.0544	10	10/01/2018 17:57	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000761	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00190	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000738	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000863	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000381	0.00109	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Ethylbenzene	0.000610	J	0.000577	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.138	0.272	10	10/01/2018 17:57	<a href="#">WG1173651</a>
2-Hexanone	U		0.0109	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
n-Hexane	0.00339	J JO	0.00115	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Iodomethane	U		0.00658	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000939	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00253	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		0.136	0.272	10	10/01/2018 17:57	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00722	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/20/18 15:30

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Naphthalene	U		0.00339	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00128	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Styrene	U		0.00297	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000734	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Tetrachloroethene	1.74		0.00761	0.0272	10	10/01/2018 17:57	<a href="#">WG1173651</a>
Toluene	0.00303	J	0.00136	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000680	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00961	0.0272	10	10/01/2018 17:57	<a href="#">WG1173651</a>
Trichloroethene	0.152		0.000435	0.00109	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Trichlorofluoromethane	U		0.000544	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00555	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00125	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00117	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Vinyl acetate	U	JO J4	0.00383	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Vinyl chloride	0.00790		0.000743	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00520	0.00707	1	09/29/2018 17:08	<a href="#">WG1173458</a>
(S) Toluene-d8	112			75.0-131		09/29/2018 17:08	<a href="#">WG1173458</a>
(S) Toluene-d8	97.0			75.0-131		10/01/2018 17:57	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	105			65.0-129		09/29/2018 17:08	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	110			65.0-129		10/01/2018 17:57	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/29/2018 17:08	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	109			67.0-138		10/01/2018 17:57	<a href="#">WG1173651</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.306	0.559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00212	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Benzene	0.000458	J	0.000447	0.00112	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromobenzene	U		0.00117	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000881	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00126	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromoform	U		0.00668	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromomethane	U		0.00414	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00429	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00283	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00173	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00454	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00121	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000640	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000503	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chloroethane	U		0.00121	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chloroform	U		0.000464	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chloromethane	U		0.00155	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00103	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00126	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000587	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Dibromomethane	U		0.00112	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00162	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00190	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00220	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000914	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000643	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000531	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1-Dichloroethene	U		0.000559	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.0596		0.000771	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.0284	0.112	20	10/01/2018 12:57	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000782	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00196	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000758	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00156	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000886	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000391	0.00112	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000592	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.284	0.559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
2-Hexanone	U		0.0112	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
n-Hexane	U	JO	0.00118	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Iodomethane	U		0.00676	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000965	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00260	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		0.279	0.559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00742	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/17/18 11:25

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Naphthalene	U		0.00349	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00132	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Styrene	U		0.00305	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000436	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Tetrachloroethene	8.01		0.0156	0.0559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
Toluene	0.00194	J	0.00140	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000699	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000307	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.0198	0.0559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
Trichloroethene	0.0451		0.000447	0.00112	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Trichlorofluoromethane	U		0.000559	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00570	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	0.00173	J	0.00130	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00129	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Vinyl acetate	U	JO J4	0.00393	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Vinyl chloride	U		0.000763	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00534	0.00727	1	09/29/2018 17:28	<a href="#">WG1173458</a>
(S) Toluene-d8	111			75.0-131		09/29/2018 17:28	<a href="#">WG1173458</a>
(S) Toluene-d8	103			75.0-131		10/01/2018 12:57	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	107			65.0-129		09/29/2018 17:28	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	105			65.0-129		10/01/2018 12:57	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/29/2018 17:28	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	110			67.0-138		10/01/2018 12:57	<a href="#">WG1173651</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0659	0.120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00229	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Benzene	U		0.000481	0.00120	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromobenzene	U		0.00126	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000948	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00136	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromoform	U		0.00719	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromomethane	U		0.00445	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00462	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00304	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00186	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00488	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00130	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000689	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000541	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chloroethane	U		0.00130	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chloroform	U		0.000499	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chloromethane	U		0.00167	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00111	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00136	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00613	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000631	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Dibromomethane	U		0.00120	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00174	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00204	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00237	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000984	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000692	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	<a href="#">J4</a>	0.000571	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1-Dichloroethene	U		0.000601	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.00818		0.000830	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	U		0.00172	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.00611	0.0241	4	10/01/2018 13:17	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000842	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00210	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000815	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00184	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00168	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000954	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000421	0.00120	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000637	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.0611	0.120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
2-Hexanone	U		0.0120	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
n-Hexane	0.00282	<a href="#">J JO</a>	0.00127	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Iodomethane	U		0.00728	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.00104	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00280	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		0.0601	0.120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00799	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/17/18 12:40

L1029197

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Naphthalene	U		0.00375	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00142	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Styrene	U		0.00328	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000601	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000469	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000812	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Tetrachloroethene	0.942		0.00337	0.0120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
Toluene	U		0.00150	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000752	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00580	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00425	0.0120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
Trichloroethene	0.00512		0.000481	0.00120	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Trichlorofluoromethane	U		0.000601	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00613	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00140	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Vinyl acetate	U	<u>JO J4</u>	0.00423	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Vinyl chloride	0.00139	<u>J</u>	0.000821	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00575	0.00782	1	09/29/2018 17:49	<a href="#">WG1173458</a>
(S) Toluene-d8	107			75.0-131		09/29/2018 17:49	<a href="#">WG1173458</a>
(S) Toluene-d8	106			75.0-131		10/01/2018 13:17	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	103			65.0-129		09/29/2018 17:49	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	105			65.0-129		10/01/2018 13:17	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	108			67.0-138		09/29/2018 17:49	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	110			67.0-138		10/01/2018 13:17	<a href="#">WG1173651</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3345959-1 09/27/18 14:37

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1029242-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1029242-01 09/27/18 14:37 • (DUP) R3345959-3 09/27/18 14:37

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	84.2	83.5	1	0.817		10

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3345959-2 09/27/18 14:37

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3346331-2 09/29/18 11:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
n-Hexane	U		0.00106	0.00500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3346331-2 09/29/18 11:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	117			75.0-131
(S) Dibromofluoromethane	106			65.0-129
(S) 4-Bromofluorobenzene	106			67.0-138

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Laboratory Control Sample (LCS)

(LCS) R3346331-1 09/29/18 10:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	0.625	0.734	118	45.0-153	
Benzene	0.125	0.121	96.5	70.0-123	
Bromobenzene	0.125	0.125	99.6	73.0-121	
Bromodichloromethane	0.125	0.143	114	73.0-121	



Laboratory Control Sample (LCS)

(LCS) R3346331-1 09/29/18 10:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromochloromethane	0.125	0.131	105	77.0-128	
Bromoform	0.125	0.120	95.7	64.0-132	
Bromomethane	0.125	0.128	102	56.0-147	
n-Butylbenzene	0.125	0.114	91.5	68.0-135	
sec-Butylbenzene	0.125	0.117	93.9	74.0-130	
tert-Butylbenzene	0.125	0.114	91.6	75.0-127	
Carbon disulfide	0.125	0.106	85.0	56.0-133	
Carbon tetrachloride	0.125	0.113	90.6	66.0-128	
Chlorobenzene	0.125	0.110	88.2	76.0-128	
Chlorodibromomethane	0.125	0.119	95.1	74.0-127	
Chloroethane	0.125	0.121	96.8	61.0-134	
Chloroform	0.125	0.134	107	72.0-123	
Chloromethane	0.125	0.132	106	51.0-138	
2-Chlorotoluene	0.125	0.113	90.1	75.0-124	
4-Chlorotoluene	0.125	0.131	105	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.120	96.2	59.0-130	
1,2-Dibromoethane	0.125	0.130	104	74.0-128	
Dibromomethane	0.125	0.116	93.0	75.0-122	
1,2-Dichlorobenzene	0.125	0.128	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.122	97.7	76.0-125	
1,4-Dichlorobenzene	0.125	0.116	93.1	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.145	116	45.0-143	
Dichlorodifluoromethane	0.125	0.164	131	43.0-156	
1,1-Dichloroethane	0.125	0.128	102	70.0-127	
1,2-Dichloroethane	0.125	0.168	134	65.0-131	J4
1,1-Dichloroethene	0.125	0.119	95.2	65.0-131	
cis-1,2-Dichloroethene	0.125	0.129	104	73.0-125	
trans-1,2-Dichloroethene	0.125	0.113	90.7	71.0-125	
1,1-Dichloropropene	0.125	0.120	96.2	73.0-125	
1,3-Dichloropropane	0.125	0.141	112	80.0-125	
cis-1,3-Dichloropropene	0.125	0.116	92.5	76.0-127	
trans-1,3-Dichloropropene	0.125	0.116	92.8	73.0-127	
2,2-Dichloropropane	0.125	0.109	87.2	59.0-135	
Di-isopropyl ether	0.125	0.132	106	60.0-136	
Ethylbenzene	0.125	0.116	92.5	74.0-126	
2-Hexanone	0.625	0.740	118	54.0-147	
n-Hexane	0.125	0.102	81.4	55.0-137	
Iodomethane	0.625	0.587	93.9	74.0-134	
Isopropylbenzene	0.125	0.112	89.4	72.0-127	
p-Isopropyltoluene	0.125	0.116	93.0	72.0-133	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3346331-1 09/29/18 10:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Methylene Chloride	0.125	0.123	98.5	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.784	126	56.0-143	
Methyl tert-butyl ether	0.125	0.151	121	66.0-132	
Naphthalene	0.125	0.133	107	59.0-130	
n-Propylbenzene	0.125	0.120	96.1	74.0-126	
Styrene	0.125	0.106	84.9	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.119	95.4	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.123	98.5	68.0-128	
Toluene	0.125	0.118	94.1	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.105	84.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.125	100	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.111	89.2	62.0-137	
1,1,1-Trichloroethane	0.125	0.112	89.8	69.0-126	
Trichloroethene	0.125	0.105	83.7	76.0-126	
Trichlorofluoromethane	0.125	0.133	106	61.0-142	
1,2,3-Trichloropropane	0.125	0.153	122	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.130	104	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.123	98.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.117	93.2	73.0-127	
Vinyl acetate	0.625	0.122	19.6	43.0-159	<u>J4</u>
Vinyl chloride	0.125	0.121	97.0	63.0-134	
Xylenes, Total	0.375	0.318	84.8	72.0-127	
(S) Toluene-d8			104	75.0-131	
(S) Dibromofluoromethane			114	65.0-129	
(S) 4-Bromofluorobenzene			108	67.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1028934-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1028934-01 09/29/18 14:03 • (MS) R3346331-3 09/29/18 19:51 • (MSD) R3346331-4 09/29/18 20:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	0.700	U	0.416	0.447	59.5	63.8	1	10.0-160			7.05	40
Benzene	0.140	U	0.0391	0.0679	27.9	48.5	1	10.0-149	<u>J3</u>		53.9	37
Bromobenzene	0.140	U	0.0764	0.121	54.6	86.4	1	10.0-156	<u>J3</u>		45.1	38
Bromodichloromethane	0.140	U	0.0851	0.124	60.8	88.7	1	10.0-143	<u>J3</u>		37.4	37
Bromoform	0.140	U	0.0701	0.105	50.1	74.8	1	10.0-146	<u>J3</u>		39.6	36
Bromochloromethane	0.140	U	0.0552	0.0737	39.5	52.6	1	10.0-155			28.6	33
Bromomethane	0.140	U	0.0114	0.0237	8.13	17.0	1	10.0-149	<u>J6</u>	<u>J3</u>	70.4	38
n-Butylbenzene	0.140	U	0.0642	0.129	45.9	92.1	1	10.0-160		<u>J3</u>	67.0	40



L1028934-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1028934-01 09/29/18 14:03 • (MS) R3346331-3 09/29/18 19:51 • (MSD) R3346331-4 09/29/18 20:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
sec-Butylbenzene	0.140	U	0.0559	0.128	39.9	91.3	1	10.0-159		J3	78.4	39
tert-Butylbenzene	0.140	U	0.0548	0.122	39.2	87.2	1	10.0-156		J3	76.1	39
Carbon tetrachloride	0.140	U	0.0274	0.0683	19.6	48.8	1	10.0-145		J3	85.4	37
Carbon disulfide	0.140	U	ND	0.00476	0.000	3.40	1	10.0-145	J6	J3 J6	200	39
Chlorobenzene	0.140	U	0.0609	0.0932	43.5	66.6	1	10.0-152		J3	41.8	39
Chlorodibromomethane	0.140	U	0.0789	0.104	56.4	74.4	1	10.0-146			27.6	37
Chloroethane	0.140	U	0.0157	0.0331	11.2	23.7	1	10.0-146		J3	71.5	40
Chloroform	0.140	U	0.0671	0.108	47.9	77.2	1	10.0-146		J3	46.7	37
Chloromethane	0.140	U	0.0130	0.0288	9.27	20.6	1	10.0-159	J6	J3	75.9	37
2-Chlorotoluene	0.140	U	0.0601	0.109	42.9	78.0	1	10.0-159		J3	57.9	38
4-Chlorotoluene	0.140	U	0.0709	0.127	50.6	90.4	1	10.0-155		J3	56.4	39
1,2-Dibromo-3-Chloropropane	0.140	U	0.0818	0.0950	58.5	67.8	1	10.0-151			14.9	39
1,2-Dibromoethane	0.140	U	0.0832	0.0985	59.4	70.4	1	10.0-148			16.8	34
Dibromomethane	0.140	U	0.0622	0.0755	44.4	54.0	1	10.0-147			19.3	35
1,2-Dichlorobenzene	0.140	U	0.0842	0.121	60.1	86.5	1	10.0-155			35.9	37
1,3-Dichlorobenzene	0.140	U	0.0715	0.119	51.1	84.7	1	10.0-153		J3	49.5	38
1,4-Dichlorobenzene	0.140	U	0.0740	0.114	52.8	81.6	1	10.0-151		J3	42.8	38
Dichlorodifluoromethane	0.140	U	0.0184	0.0571	13.2	40.8	1	10.0-160		J3	102	35
trans-1,4-Dichloro-2-butene	0.140	U	0.0959	0.132	68.5	94.2	1	10.0-152			31.5	36
1,1-Dichloroethane	0.140	U	0.0496	0.0905	35.4	64.7	1	10.0-147		J3	58.5	37
1,2-Dichloroethane	0.140	U	0.0839	0.0996	60.0	71.1	1	10.0-148			17.1	35
1,1-Dichloroethene	0.140	U	0.0189	0.0440	13.5	31.4	1	10.0-155		J3	79.5	37
cis-1,2-Dichloroethene	0.140	U	0.0498	0.0789	35.6	56.4	1	10.0-149		J3	45.3	37
trans-1,2-Dichloroethene	0.140	U	0.0175	0.0345	12.5	24.6	1	10.0-150		J3	65.4	37
1,1-Dichloropropene	0.140	U	0.0205	0.0503	14.6	36.0	1	10.0-153		J3	84.2	35
1,3-Dichloropropane	0.140	U	0.0965	0.0108	69.0	7.72	1	10.0-154		J3 J6	160	35
cis-1,3-Dichloropropene	0.140	U	0.0652	0.0869	46.6	62.1	1	10.0-151			28.6	37
trans-1,3-Dichloropropene	0.140	U	0.0731	0.0907	52.2	64.8	1	10.0-148			21.4	37
2,2-Dichloropropane	0.140	U	0.0399	0.0995	28.5	71.1	1	10.0-138		J3	85.4	36
Di-isopropyl ether	0.140	U	0.0811	0.114	57.9	81.8	1	10.0-147			34.2	36
Ethylbenzene	0.140	U	0.0513	0.0951	36.6	67.9	1	10.0-160		J3	59.9	38
2-Hexanone	0.700	U	0.567	0.595	81.1	85.1	1	10.0-160			4.80	36
Isopropylbenzene	0.140	U	0.0508	0.108	36.3	77.0	1	10.0-155		J3	71.8	38
n-Hexane	0.140	0.00762	0.00750	0.00949	0.000	1.34	1	10.0-157	J6	J6	23.4	37
Iodomethane	0.700	U	0.103	0.189	14.7	26.9	1	10.0-160		J3	58.7	38
p-Isopropyltoluene	0.140	U	0.0594	0.122	42.4	87.2	1	10.0-160		J3	69.1	40
Methylene Chloride	0.140	0.0134	0.0535	0.0745	28.7	43.7	1	10.0-141			32.7	37
4-Methyl-2-pentanone (MIBK)	0.700	U	0.599	0.696	85.7	99.4	1	10.0-160			14.9	35
Methyl tert-butyl ether	0.140	U	0.0976	0.119	69.7	85.0	1	11.0-147			19.8	35

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





L1028934-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1028934-01 09/29/18 14:03 • (MS) R3346331-3 09/29/18 19:51 • (MSD) R3346331-4 09/29/18 20:12

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.140	U	0.131	0.128	93.4	91.6	1	10.0-160			1.92	36
n-Propylbenzene	0.140	U	0.0541	0.116	38.6	82.8	1	10.0-158		J3	72.8	38
Styrene	0.140	0.00307	0.0698	0.107	47.7	74.2	1	10.0-160		J3	42.1	40
1,1,1,2-Tetrachloroethane	0.140	U	0.0747	0.116	53.4	83.2	1	10.0-149		J3	43.7	39
1,1,2,2-Tetrachloroethane	0.140	U	0.102	0.128	72.6	91.6	1	10.0-160			23.1	35
Toluene	0.140	U	0.0470	0.0834	33.6	59.6	1	10.0-156		J3	55.9	38
1,1,2-Trichlorotrifluoroethane	0.140	U	0.0211	0.0571	15.1	40.8	1	10.0-160		J3	91.9	36
1,2,3-Trichlorobenzene	0.140	U	0.101	0.130	72.5	92.7	1	10.0-160			24.6	40
1,2,4-Trichlorobenzene	0.140	U	0.0784	0.110	56.0	78.7	1	10.0-160			33.8	40
1,1,1-Trichloroethane	0.140	0.000485	0.0382	0.0821	26.9	58.3	1	10.0-144		J3	73.1	35
Trichloroethene	0.140	0.00214	0.0464	0.0795	31.6	55.3	1	10.0-156		J3	52.5	38
Trichlorofluoromethane	0.140	U	0.0203	0.0563	14.5	40.2	1	10.0-160		J3	94.1	40
1,2,3-Trichloropropane	0.140	U	0.107	0.139	76.5	99.3	1	10.0-156			25.9	35
1,2,3-Trimethylbenzene	0.140	U	0.0735	0.115	52.5	82.3	1	10.0-160		J3	44.2	36
1,2,4-Trimethylbenzene	0.140	U	0.0726	0.118	51.9	84.1	1	10.0-160		J3	47.4	36
1,3,5-Trimethylbenzene	0.140	U	0.0585	0.108	41.8	77.4	1	10.0-160		J3	59.7	38
Vinyl chloride	0.140	U	0.00849	0.0226	6.07	16.2	1	10.0-160	J6	J3	90.9	37
Vinyl acetate	0.700	U	0.103	0.142	14.7	20.3	1	10.0-128			32.4	40
Xylenes, Total	0.420	U	0.157	0.283	37.5	67.4	1	10.0-160		J3	57.0	38
(S) Toluene-d8					108	111		75.0-131				
(S) Dibromofluoromethane					106	105		65.0-129				
(S) 4-Bromofluorobenzene					107	108		67.0-138				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3346880-3 10/01/18 10:36

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
1,2-Dichloropropane	U		0.00127	0.00500
Hexachloro-1,3-butadiene	U		0.0127	0.0250
2-Butanone (MEK)	U		0.0125	0.0250
Tetrachloroethene	U		0.000700	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
(S) Toluene-d8	111			75.0-131
(S) Dibromofluoromethane	99.3			65.0-129
(S) 4-Bromofluorobenzene	111			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3346880-1 10/01/18 09:16 • (LCSD) R3346880-2 10/01/18 09:36

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.652	0.593	104	94.9	10.0-160			9.35	31
1,2-Dichloropropane	0.125	0.128	0.125	102	100	74.0-125			2.17	20
Hexachloro-1,3-butadiene	0.125	0.120	0.123	96.2	98.2	57.0-150			2.04	20
2-Butanone (MEK)	0.625	0.721	0.709	115	114	30.0-160			1.57	24
Tetrachloroethene	0.125	0.131	0.130	105	104	70.0-136			0.582	20
1,1,2-Trichloroethane	0.125	0.126	0.127	101	102	78.0-123			1.06	20
(S) Toluene-d8				103	101	75.0-131				
(S) Dibromofluoromethane				106	107	65.0-129				
(S) 4-Bromofluorobenzene				107	110	67.0-138				

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3346800-2 10/01/18 21:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Trichloroethene	U		0.000400	0.00100
(S) Toluene-d8	104			75.0-131
(S) Dibromofluoromethane	98.5			65.0-129
(S) 4-Bromofluorobenzene	102			67.0-138

Laboratory Control Sample (LCS)

(LCS) R3346800-1 10/01/18 18:34

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Trichloroethene	0.125	0.133	106	76.0-126	
(S) Toluene-d8			106	75.0-131	
(S) Dibromofluoromethane			101	65.0-129	
(S) 4-Bromofluorobenzene			111	67.0-138	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

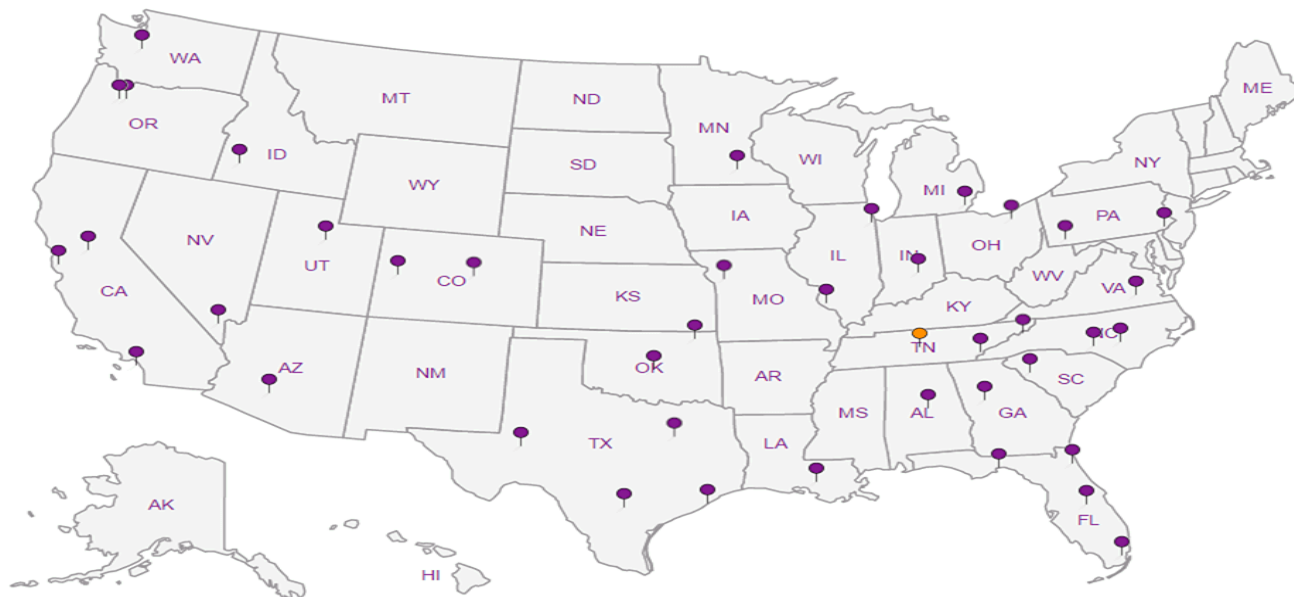
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

PES Environmental, Inc. - WA

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
Brian O'Neal/Bill Haldeman

Email To:  
boneal@pesenv.com

Project: American Linen

City/State Collected: Seattle, WA

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.304

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
Ben Hecht

Site/Facility ID #  
1413.001.05.304

P.O. #

Collected by (signature):  
*Ben Hecht*

Rush? (Lab MUST Be Notified)

Quote #

Immediately  
Packed on ice: N  Y

Same Day  Five Day   
Next Day  3 Day (Rad Only)   
Two Day  10 Day (Rad Only)   
Three Day

Date Results Needed

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page    of   



12065 Latham Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5258  
Phone: 800-357-5855  
Fax: 615-758-5859



L# L1029197

T# B062

Account: PESENVSWA

Template: T139825

Prelogin: P668288

TSR: 110 - Brian Ford

PS:

Shipped Via:

Name: Sample # (Lab only):

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	Analysis / Container / Preservative
1W-130-61	Grab <input type="checkbox"/>	SS <input type="checkbox"/>		9/18/18	15:00	2	VOCs V8260C 40mlAmb/MeOH5ml/Syr dry weight 2ozClr-NoPres trip bik V8260LLC 40mlAmb-HCl-Bik
1W-130-66	Grab <input type="checkbox"/>				14:30	2	
1W-130-75					15:50	2	
1W-130-80					16:00	2	
1W-130-85					16:40	2	
1W-130-90					16:35	2	
1W-130-95					17:20	2	
1W-250-91				9/19	11:52	2	
1W-250-92				9/19	16:02	2	
1W-533-30				9/20	15:30	2	

HOLD

**ANALYZE**

-01  
02  
-03  
04  
05

SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
RAD SCREEN: <0.5 mR/hr

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist  
COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Sec Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by (Signature): <i>Ben Hecht</i>	Date: 9/21/18	Time: 16:30	Received by (Signature): <i>mm</i>	Trip Blank Received: Yes/No 2 <input checked="" type="checkbox"/> Y <input type="checkbox"/> No HCL / MeOH TBR
Relinquished by (Signature):	Date:	Time:	Received by (Signature):	Temp: 5.45°C Bottles Received: 48
Relinquished by (Signature):	Date:	Time:	Received for lab by (Signature): <i>mm</i>	Date: 9/22/18 Time: 845

If preservation required by Login: Date/Time

Hold: Condition: NCF / OK



PES Environmental, Inc. - WA

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page    of   

Report to:  
Brian O'Neal/Bill Haldeman

Email To: *bohald@pescorp.com*  
boneal@pesenv.com;

**Pace Analytical**  
12000 Lakeland Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Project: American Linen  
Description:

City/State: Seattle, WA  
Collected:

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.304

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
Ben Hecht

Site/Facility ID #  
1413.001.05.304

P.O. #

Collected by (signature):  
*Ben Hecht*

Rush? (Lab MUST Be Notified)  
Same Day  Five Day   
Next Day  5 Day (Rad Only)   
Two Day  10 Day (Rad Only)   
Three Day

Quote #

Date Results Needed

Immediately  
Packed on ice: N  Y

No  
of  
Cntrs

VOCs V8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozCir-NoPres

trip blk V8260LLC 40mlAmb-HCl-Bik

L# *L1079197*

Table #

Acctnum: PESENVSWA

Template: T139825

Prlogin: P668288

TSR: 110 - Brian Ford

PI:

Shipped Via

Remarks: Sample # (Lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	Analysis / Container / Preservative
1W-120-65	Grab	SS		9/17/18	0935	2	HOLD
1W-120-70	Grab				0940	2	
1W-120-75					091005	2	
1W-120-80					1040	2	
1W-120-85					1125	2	
1W-120-90					1120	2	
1W-120-95					1240	2	
1W-130-45				9/18/18	1135	2	
1W-130-50					1215	2	
1W-130-55					1220	2	

1W-120-85  
1W-120-90  
1W-120-95

ANALYZE

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Boassy  
WW - Waste Water  
DW - Drinking Water  
OT - Other

Remarks:  
RAD SCREEN: <0.5 mR/hr

Samples returned via:  
UPS  FedEx  Courier

Tracking # 4361 6932 4047

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

COC (Seal) Present/Intact:  Y  N

COC Signed/Accurate:  Y  N

Bottles arrive intact:  Y  N

Correct bottles used:  Y  N

Sufficient volume sent:  Y  N

VDA Zero Headpace:  Y  N

Preservation Correct/Checked:  Y  N

Relinquished by: (Signature) *Ben Hecht* Date: 9/21/18 Time: 16:30

Received by: (Signature) \_\_\_\_\_

Trip Blank Received: Yes/No  
HCl/MeOH  
TSR  
2

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature) \_\_\_\_\_

Temp: 5.5°C  
Bottles Received: 99

Relinquished by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature) *ovm*

Date: 9/22/18 Time: 845

If preservation required by Log# Date/Time

09-0111 Condition: NCF / OK

PES Environmental, Inc. - WA

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing information

Attn: Accounts Payable  
1215 Fourth Ave., Ste 1350  
Seattle, WA 98161

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_

Pres  
Chk



12065 Lebanon Rd  
Mount Airy, TN 37122  
Phone: 615-756-5658  
Phone: 800-767-5858  
Fax: 615-756-5859



Report to:  
Brian O'Neal/Bill Haldeman

Email To:  
boneal@pesenv.com;

Project American Linen  
Description:

City/State Collected: Seattle, WA

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.304

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
Ben Hecht

Site/Facility ID #  
1413.001.05.304

P.O. #

Collected by (signature):  
*Ben Hecht*

Rush? (Lab MUST Be Notified)

Quote #

Same Day \_\_\_\_\_ Five Day \_\_\_\_\_  
Next Day \_\_\_\_\_ 5 Day (Rad Only) \_\_\_\_\_  
Two Day \_\_\_\_\_ 10 Day (Rad Only) \_\_\_\_\_  
Three Day \_\_\_\_\_

Date Results Needed

No  
of  
Cntrs

Immediately  
Packed on ice: N

L\* L1029197

Table #

Account: PESENVSWA

Template: T139825

Prelogin: P668288

TSR: 110 - Brian Ford

PS:

Shipped Via:

Remarks: Sample # (lab only)

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No of Cntrs	Analysis / Container / Preservative
1W-533-45	Grab	SS		9/20/18	16:15	2	VOCs V8260C 40mlAmb/MeOH5mV5yr dry weight 2ozCir-NoPres trip blk V8260LLC 40mlAmb-HCl-Blk
1W-533-60	Grab			9/20/18	17:25	2	
1W-57A-60				9/19/18	12:20	2	
1W-57A-62				9/19/18	12:55	2	
							HOLD
							↓

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - Waste Water  
DW - Drinking Water  
OT - Other

Remarks:

RAD SCREEN: <0.5 mR/hr

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Samples returned via:

UPS \_\_\_\_\_ FedEx \_\_\_\_\_ Courier \_\_\_\_\_

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Analyzable  
VGA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
*Ben Hecht*

Date: 9/21/18  
Time: 16:30

Received by: (Signature)

Trip Blank Received: Yes/No  
 Y  N  
HCl/MeOH  
TSR

Relinquished by: (Signature)

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received by: (Signature)

Temp: 54.5 °C  
Bottles Received: 48

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Received for lab by: (Signature)  
*am*

Date: 9/22/18  
Time: 8:45

Hold:

Condition:  
NCF / OK



**Andy Vann**

---

**From:** Jason Romer  
**Sent:** Tuesday, September 25, 2018 8:51 AM  
**To:** Login  
**Cc:** Brian Ford; Jared N. Starkey  
**Subject:** RE: PESEMVSWA HOLD COC (09-0111) - log for analysis  
**Attachments:** 3666\_001.pdf

Per client request, please use the attached revised COC and log the samples marked for analysis. Please log as R5 due Tuesday, 10/02

Thanks,  
Jason Romer  
*Project Manager*  
Pace Analytical National Center for Testing & Innovation  
12065 Lebanon Road | Mt. Juliet, TN 37122  
615.773.9713  
[jromer@pacenational.com](mailto:jromer@pacenational.com) | [pacenational.com](http://pacenational.com)

---

**From:** Jeremy W. Watkins  
**Sent:** Tuesday, September 25, 2018 8:48 AM  
**To:** Jason Romer  
**Subject:** FW: PESEMVSWA HOLD COC (09-0111)

---

**From:** Matt Shacklock  
**Sent:** Saturday, September 22, 2018 6:47 PM  
**To:** Login; Brian Ford  
**Subject:** PESEMVSWA HOLD COC (09-0111)

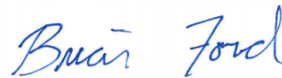
Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.

October 03, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1030304  
Samples Received: 09/29/2018  
Project Number:  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b><sup>1</sup>Cp</b>
<b>Tc: Table of Contents</b>	<b>2</b>	<b><sup>2</sup>Tc</b>
<b>Ss: Sample Summary</b>	<b>3</b>	<b><sup>3</sup>Ss</b>
<b>Cn: Case Narrative</b>	<b>4</b>	<b><sup>4</sup>Cn</b>
<b>Sr: Sample Results</b>	<b>5</b>	<b><sup>5</sup>Sr</b>
SV01-092518 L1030304-01	<b>5</b>	
SV01-092518-D L1030304-02	<b>7</b>	
SV02-092518 L1030304-03	<b>9</b>	
SV03-092518 L1030304-04	<b>11</b>	
<b>Qc: Quality Control Summary</b>	<b>13</b>	<b><sup>6</sup>Qc</b>
Volatile Organic Compounds (MS) by Method TO-15	<b>13</b>	
<b>Gl: Glossary of Terms</b>	<b>17</b>	<b><sup>7</sup>Gl</b>
<b>Al: Accreditations &amp; Locations</b>	<b>18</b>	<b><sup>8</sup>Al</b>
<b>Sc: Sample Chain of Custody</b>	<b>19</b>	<b><sup>9</sup>Sc</b>

# SAMPLE SUMMARY



SV01-092518 L1030304-01 Air

Collected by: Chris D.  
 Collected date/time: 09/25/18 13:35  
 Received date/time: 09/29/18 09:00

1  
Cp

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1174010	2	10/01/18 23:01	10/01/18 23:01	MBF

2  
Tc

SV01-092518-D L1030304-02 Air

Collected by: Chris D.  
 Collected date/time: 09/25/18 13:35  
 Received date/time: 09/29/18 09:00

3  
Ss

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1174010	2	10/01/18 23:53	10/01/18 23:53	MBF

4  
Cn

5  
Sr

SV02-092518 L1030304-03 Air

Collected by: Chris D.  
 Collected date/time: 09/25/18 15:20  
 Received date/time: 09/29/18 09:00

6  
Qc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1174010	2	10/02/18 00:43	10/02/18 00:43	MBF

7  
Gl

8  
Al

SV03-092518 L1030304-04 Air

Collected by: Chris D.  
 Collected date/time: 09/25/18 17:25  
 Received date/time: 09/29/18 09:00

9  
Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1174010	2	10/02/18 01:34	10/02/18 01:34	MBF



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	11.5	27.4		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	0.476	2.32		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	1.73	6.92		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	1.83	6.59		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	14.6	27.5		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND	J4	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.404	1.40		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	1.24	3.64		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/25/18 13:35

L1030304

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	17.8	96.7		2	<a href="#">WG1174010</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1174010</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1174010</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1174010</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1174010</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1174010</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1174010</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1174010</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				<a href="#">WG1174010</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	8.56	20.3		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	0.420	2.04		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	1.63	6.54		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	12.3	23.2		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND	J4	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	20.2	137		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	17.1	93.2		2	<a href="#">WG1174010</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1174010</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1174010</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1174010</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1174010</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1174010</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1174010</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1174010</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.5				<a href="#">WG1174010</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 09/25/18 15:20

L1030304

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	30.8	73.2		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	0.594	1.23		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	0.749	2.70		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	11.5	21.7		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	0.622	3.05		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	0.774	4.35		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.448	2.22		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND	J4	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	0.659	2.32		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	1.10	3.81		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	7.95	19.5		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	4.66	8.03		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	0.633	1.87		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	0.485	1.83		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1174010</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	1.84	9.01		2	<a href="#">WG1174010</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	0.488	2.39		2	<a href="#">WG1174010</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1174010</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1174010</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1174010</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1174010</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	1.29	5.58		2	<a href="#">WG1174010</a>
o-Xylene	95-47-6	106	0.400	1.73	0.638	2.76		2	<a href="#">WG1174010</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		107				<a href="#">WG1174010</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	7.83	18.6		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	13.8	26.1		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND	J4	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	1.60	2.75		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	0.570	2.15		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1174010</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	0.508	2.49		2	<a href="#">WG1174010</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1174010</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1174010</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1174010</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1174010</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1174010</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1174010</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		115				<a href="#">WG1174010</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3346862-2 10/01/18 10:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	0.0749	U	0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	0.0628	U	0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	0.187	U	0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3346862-2 10/01/18 10:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Methylene Chloride	U		0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	0.155	<u>J</u>	0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	89.7			60.0-140

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3346862-1 10/01/18 09:49 • (LCSD) R3346862-3 10/01/18 12:04

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Ethanol	3.75	4.40	3.43	117	91.5	55.0-148			24.8	25
Propene	3.75	4.81	5.07	128	135	64.0-144			5.27	25
Dichlorodifluoromethane	3.75	4.58	4.58	122	122	64.0-139			0.0613	25
1,2-Dichlorotetrafluoroethane	3.75	4.77	4.91	127	131	70.0-130		<u>J4</u>	2.75	25
Chloromethane	3.75	4.56	4.82	122	129	70.0-130			5.48	25



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3346862-1 10/01/18 09:49 • (LCSD) R3346862-3 10/01/18 12:04

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	3.75	4.62	4.75	123	127	70.0-130			2.63	25
1,3-Butadiene	3.75	4.60	4.82	123	129	70.0-130			4.65	25
Bromomethane	3.75	4.61	4.67	123	124	70.0-130			1.25	25
Chloroethane	3.75	4.62	4.84	123	129	70.0-130			4.59	25
Trichlorofluoromethane	3.75	4.49	4.58	120	122	70.0-130			1.84	25
1,1,2-Trichlorotrifluoroethane	3.75	4.47	4.53	119	121	70.0-130			1.36	25
1,1-Dichloroethene	3.75	4.49	4.56	120	122	70.0-130			1.42	25
1,1-Dichloroethane	3.75	4.56	4.62	122	123	70.0-130			1.42	25
Acetone	3.75	4.78	4.59	127	122	70.0-130			4.07	25
2-Propanol	3.75	4.59	4.62	123	123	70.0-139			0.653	25
Carbon disulfide	3.75	4.48	4.69	119	125	70.0-130			4.52	25
Methylene Chloride	3.75	4.26	4.48	114	119	70.0-130			5.02	25
MTBE	3.75	4.50	4.61	120	123	70.0-130			2.55	25
trans-1,2-Dichloroethene	3.75	4.37	4.49	117	120	70.0-130			2.53	25
n-Hexane	3.75	4.48	4.67	120	125	70.0-130			4.18	25
Vinyl acetate	3.75	4.87	4.82	130	128	70.0-130			1.03	25
Methyl Ethyl Ketone	3.75	4.62	4.71	123	126	70.0-130			1.95	25
cis-1,2-Dichloroethene	3.75	4.68	4.84	125	129	70.0-130			3.43	25
Chloroform	3.75	4.53	4.65	121	124	70.0-130			2.70	25
Cyclohexane	3.75	4.53	4.69	121	125	70.0-130			3.56	25
1,1,1-Trichloroethane	3.75	4.51	4.61	120	123	70.0-130			2.17	25
Carbon tetrachloride	3.75	4.51	4.62	120	123	70.0-130			2.34	25
Benzene	3.75	4.51	4.65	120	124	70.0-130			2.92	25
1,2-Dichloroethane	3.75	4.63	4.59	124	122	70.0-130			0.953	25
Heptane	3.75	4.67	4.79	125	128	70.0-130			2.52	25
Trichloroethylene	3.75	4.49	4.61	120	123	70.0-130			2.60	25
1,2-Dichloropropane	3.75	4.59	4.67	122	125	70.0-130			1.76	25
1,4-Dioxane	3.75	4.40	4.43	117	118	70.0-140			0.667	25
Bromodichloromethane	3.75	4.57	4.65	122	124	70.0-130			1.87	25
cis-1,3-Dichloropropene	3.75	4.70	4.71	125	126	70.0-130			0.284	25
4-Methyl-2-pentanone (MIBK)	3.75	4.53	4.73	121	126	70.0-139			4.32	25
Toluene	3.75	4.59	4.69	122	125	70.0-130			2.10	25
trans-1,3-Dichloropropene	3.75	4.55	4.64	121	124	70.0-130			1.79	25
1,1,2-Trichloroethane	3.75	4.60	4.70	123	125	70.0-130			2.12	25
Tetrachloroethylene	3.75	4.52	4.43	120	118	70.0-130			1.86	25
Methyl Butyl Ketone	3.75	4.73	4.79	126	128	70.0-149			1.25	25
Dibromochloromethane	3.75	4.61	4.55	123	121	70.0-130			1.24	25
1,2-Dibromoethane	3.75	4.46	4.55	119	121	70.0-130			2.11	25
Chlorobenzene	3.75	4.55	4.58	121	122	70.0-130			0.795	25
Ethylbenzene	3.75	4.66	4.72	124	126	70.0-130			1.18	25

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3346862-1 10/01/18 09:49 • (LCSD) R3346862-3 10/01/18 12:04

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
m&p-Xylene	7.50	9.42	9.52	126	127	70.0-130			1.09	25
o-Xylene	3.75	4.65	4.72	124	126	70.0-130			1.42	25
Styrene	3.75	4.62	4.68	123	125	70.0-130			1.28	25
Bromoform	3.75	4.73	4.73	126	126	70.0-130			0.0856	25
1,1,2,2-Tetrachloroethane	3.75	4.44	4.50	118	120	70.0-130			1.32	25
4-Ethyltoluene	3.75	4.45	4.50	119	120	70.0-130			0.994	25
1,3,5-Trimethylbenzene	3.75	4.42	4.49	118	120	70.0-130			1.48	25
1,2,4-Trimethylbenzene	3.75	4.37	4.42	116	118	70.0-130			1.19	25
1,3-Dichlorobenzene	3.75	4.36	4.27	116	114	70.0-130			2.11	25
1,4-Dichlorobenzene	3.75	4.28	4.19	114	112	70.0-130			2.15	25
Benzyl Chloride	3.75	4.49	4.35	120	116	70.0-152			3.12	25
1,2-Dichlorobenzene	3.75	4.30	4.25	115	113	70.0-130			1.26	25
1,2,4-Trichlorobenzene	3.75	4.64	4.30	124	115	70.0-160			7.63	25
Hexachloro-1,3-butadiene	3.75	4.67	4.35	124	116	70.0-151			6.91	25
Naphthalene	3.75	4.78	4.43	127	118	70.0-159			7.44	25
Allyl Chloride	3.75	4.63	4.80	123	128	70.0-130			3.67	25
2-Chlorotoluene	3.75	4.41	4.47	118	119	70.0-130			1.32	25
Methyl Methacrylate	3.75	4.61	4.66	123	124	70.0-130			1.15	25
Tetrahydrofuran	3.75	4.55	4.72	121	126	70.0-137			3.64	25
2,2,4-Trimethylpentane	3.75	4.60	4.79	123	128	70.0-130			3.99	25
Vinyl Bromide	3.75	4.60	4.60	123	123	70.0-130			0.0238	25
Isopropylbenzene	3.75	4.55	4.64	121	124	70.0-130			1.95	25
(S) 1,4-Bromofluorobenzene				95.7	97.2	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

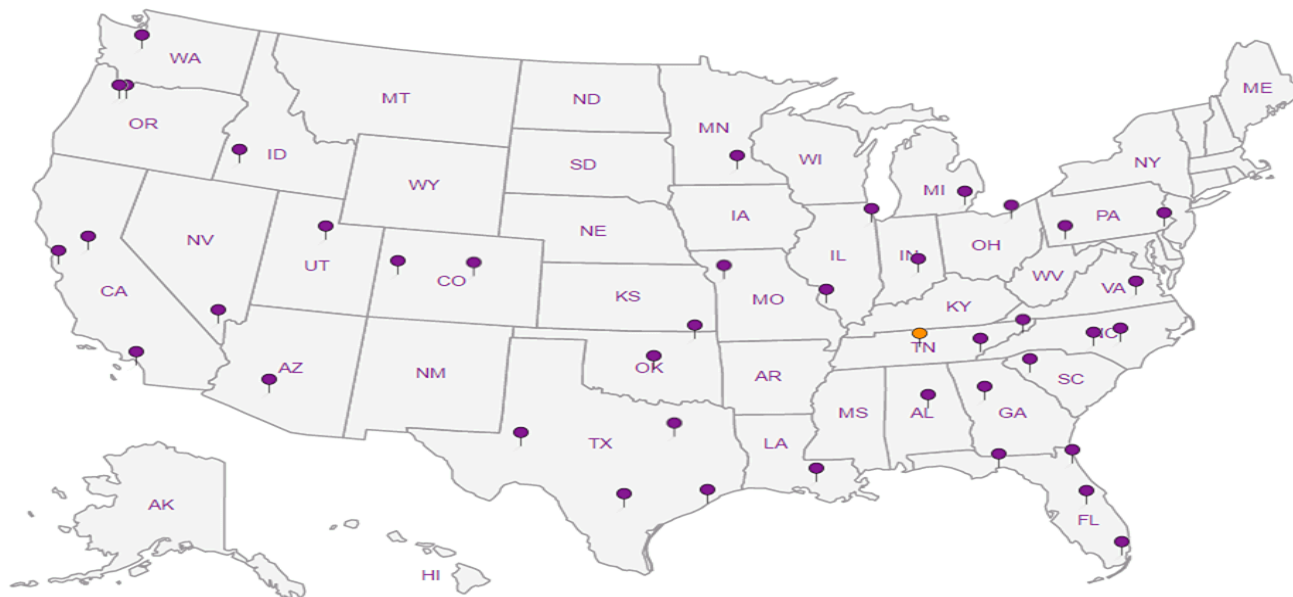
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

M114

ALL SHADED AREAS are for LAB USE ONLY

Company: PES Environmental, Inc.- WA  
 Address: 1215 Fourth Ave., Suite 1350  
 Seattle, WA 98161

Billing Information:  
 Attn: Accounts Payable  
 1215 Fourth Ave., Ste. 1350  
 Seattle, WA 98161

Report To: Brian O'Neal/Bill Haldeman  
 Email To: boneal@pesenv.com; bhaldeman@pesenv.com

Copy To:

Customer Project Name/Number:  
**American Linen**

Site/Facility ID #: American Linen  
 State: WA / County/City: King Seattle  
 Time Zone Collected: PT MT CT ET

Phone: 206-529-3980  
 Email:

Collected by (print): Chris DeBor  
 Purchase Order #: DW PWS ID #:  
 Quote #: DW Location Code:

Collected by (signature): [Signature]  
 Turnaround Date Required:  
 Immediately Packed on Ice:  
 Yes  No

Sample Disposal:  
 Dispose as appropriate  Return  
 Archive  Hold  
 Rush:  Same Day  Next Day  
 2 Day  3 Day  4 Day  5 Day  
 (Expedite Charges Apply)

Field Filtered (if applicable):  
 Yes  No  
 Analysis:

Container Preservative Type \*\*

Lab Project Manager:  
 110 - Brian Ford

\*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
SV01-092518	Air	Grab	9/25/10	1320	9/25/10	1535		1
SV01-092518-01	Air	Grab		1320		1335		1
SV02-092518	Air	Grab		1500		1520		1
SV03-092518	Air	Grab		1700		1725		1

Analyses	Lab Profile/Line: PESENVSWA-ALP
Helium Summa	Lab Sample Receipt Checklist:
TO-15 Summa	Custody Seals Present/Intact Y N <input checked="" type="checkbox"/>
VOLs V8260C 40mlAmb/MeOH5ml/Syr	Custody Signatures Present Y N <input checked="" type="checkbox"/>
dry weight 707Clr-NOPres	Collector Signature Present <input checked="" type="checkbox"/> N NA
trip blk VOC 8260LLC 40mlAmb-HCl-Blk	Bottles Intact <input checked="" type="checkbox"/> N NA
	Correct Bottles <input checked="" type="checkbox"/> N NA
	Sufficient Volume <input checked="" type="checkbox"/> N NA
	Samples Received on Ice Y N <input checked="" type="checkbox"/>
	VOA - Headspace Acceptable Y N <input checked="" type="checkbox"/>
	USDA Regulated Soils Y N <input checked="" type="checkbox"/>
	Samples in Holding Time <input checked="" type="checkbox"/> N NA
	Residual Chlorine Present Y N <input checked="" type="checkbox"/>
	Cl Strips:
	Sample pH Acceptable Y N <input checked="" type="checkbox"/>
	pH Strips:
	Sulfide Present Y N <input checked="" type="checkbox"/>
	Lead Acetate Strips:
	LAB USE ONLY: Lab Sample # / Comments: 4030304

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry  None

Packing Material Used: Bubblewrap

Radchem sample(s) screened (<500 cpm): Y N  NA

SHORT HOLDS PRESENT (<72 hours): Y  N/A

LAB Tracking #:

Samples received via: FEDEX UPS Client Courier Pace Courier

LAB Sample Temperature Info:  
 Temp Blank Received: Y N

Therm ID#:

Cooler 1 Temp Upon Receipt \_\_\_ °C  
 Cooler 1 Therm Corr. Factor \_\_\_ °C  
 Cooler 1 Corrected Temp: Amb °C

Comments:  
 Trip Blank Received: Y  NA  
 HCL MeOH TSP Other  
 NonConformance(s) Page \_\_\_  
 YES / NO of \_\_\_

Relinquished by/Company: (Signature) [Signature]	Date/Time: 9/28/10 1030	Received by/Company: (Signature) [Signature]	Date/Time: 9/29/10 0900
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #

Acctnum: PESENVSWA  
 Template: T140595  
 Prelogin: P672237  
 PM: 110 - Brian Ford  
 PB:

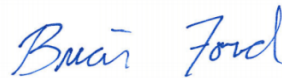
October 25, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1036161  
Samples Received: 10/18/2018  
Project Number:  
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
<b>IW-58A-38 L1036161-01</b>	<b>5</b>	
<b>B-929-38 L1036161-02</b>	<b>7</b>	<b>4</b> Cn
<b>Qc: Quality Control Summary</b>	<b>9</b>	<b>5</b> Sr
<b>Total Solids by Method 2540 G-2011</b>	<b>9</b>	
<b>Volatile Organic Compounds (GC/MS) by Method 8260C</b>	<b>11</b>	<b>6</b> Qc
<b>Gl: Glossary of Terms</b>	<b>16</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>17</b>	<b>7</b> Gl
<b>Sc: Sample Chain of Custody</b>	<b>18</b>	<b>8</b> Al
		<b>9</b> Sc



# SAMPLE SUMMARY



## IW-58A-38 L1036161-01 Solid

Collected by SM / RM      Collected date/time 10/17/18 15:10      Received date/time 10/18/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1184862	1	10/24/18 09:33	10/24/18 09:40	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/17/18 15:10	10/22/18 17:32	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	10	10/17/18 15:10	10/24/18 00:26	JHH

1  
Cp

2  
Tc

3  
Ss

## B-929-38 L1036161-02 Solid

Collected by SM / RM      Collected date/time 10/17/18 15:20      Received date/time 10/18/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185188	1	10/24/18 11:04	10/24/18 11:13	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1184455	1	10/17/18 15:20	10/22/18 17:50	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1185221	10	10/17/18 15:20	10/24/18 00:46	JHH

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	10/24/2018 09:40	<a href="#">WG1184862</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.150	0.273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
Acrylonitrile	U		0.00208	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Benzene	U		0.000437	0.00109	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromodichloromethane	U		0.000861	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromochloromethane	U		0.00124	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromoform	U		0.00654	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromomethane	U		0.00404	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
n-Butylbenzene	U		0.00420	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
sec-Butylbenzene	U		0.00277	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
tert-Butylbenzene	U		0.00169	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Carbon disulfide	U		0.00444	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Carbon tetrachloride	U		0.00118	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chlorobenzene	U		0.000626	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chlorodibromomethane	U		0.000492	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chloroethane	U		0.00118	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chloroform	U		0.000454	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chloromethane	U		0.00152	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
2-Chlorotoluene	U		0.00101	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
4-Chlorotoluene	U		0.00124	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dibromoethane	U		0.000574	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Dibromomethane	U		0.00109	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dichlorobenzene	U		0.00158	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,3-Dichlorobenzene	U		0.00186	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,4-Dichlorobenzene	U		0.00215	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Dichlorodifluoromethane	U		0.00894	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
1,1-Dichloroethane	U		0.000628	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dichloroethane	U		0.000519	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1-Dichloroethene	0.00253	J	0.000547	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
cis-1,2-Dichloroethene	1.48		0.00754	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
trans-1,2-Dichloroethene	0.0323		0.00156	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dichloropropane	U		0.00139	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1-Dichloropropene	U		0.000765	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,3-Dichloropropane	U		0.00191	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
trans-1,3-Dichloropropene	U	J4	0.00167	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
2,2-Dichloropropane	U		0.000867	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Di-isopropyl ether	U		0.000383	0.00109	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Ethylbenzene	U		0.000579	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
2-Hexanone	U		0.0109	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
n-Hexane	U		0.00116	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Iodomethane	U		0.00661	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Isopropylbenzene	U		0.000943	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
p-Isopropyltoluene	U		0.00255	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
2-Butanone (MEK)	0.0413		0.0137	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Methylene Chloride	U		0.00726	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/17/18 15:10

L1036161

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Naphthalene	U		0.00341	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
n-Propylbenzene	U		0.00129	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Styrene	U		0.00298	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1,1,2-Tetrachloroethane	U	J4	0.000547	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1,2,2-Tetrachloroethane	U		0.00426	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Tetrachloroethene	2.67	JO	0.00765	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
Toluene	0.00206	J	0.00137	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2,3-Trichlorobenzene	U		0.00683	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1,1-Trichloroethane	U		0.000301	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1,2-Trichloroethane	U		0.000965	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Trichloroethene	0.279		0.000437	0.00109	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Trichlorofluoromethane	U		0.000547	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2,3-Trichloropropane	U		0.00557	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Vinyl acetate	U		0.00385	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Vinyl chloride	0.0128		0.000747	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Xylenes, Total	U		0.00522	0.00710	1	10/22/2018 17:32	<a href="#">WG1184455</a>
(S) Toluene-d8	105			75.0-131		10/22/2018 17:32	<a href="#">WG1184455</a>
(S) Toluene-d8	97.2			75.0-131		10/24/2018 00:26	<a href="#">WG1185221</a>
(S) Dibromofluoromethane	90.3			65.0-129		10/22/2018 17:32	<a href="#">WG1184455</a>
(S) Dibromofluoromethane	118			65.0-129		10/24/2018 00:26	<a href="#">WG1185221</a>
(S) 4-Bromofluorobenzene	92.0			67.0-138		10/22/2018 17:32	<a href="#">WG1184455</a>
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 00:26	<a href="#">WG1185221</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1036161-01 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1036161-01 WG1185221, WG1184455: Not all compounds reportable at lower dilution.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	10/24/2018 11:13	<a href="#">WG1185188</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.154	0.281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
Acrylonitrile	U		0.00214	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Benzene	U		0.000450	0.00113	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromobenzene	U		0.00118	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromodichloromethane	U		0.000887	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromochloromethane	U		0.00127	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromoform	U		0.00673	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromomethane	U		0.00417	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
n-Butylbenzene	U		0.00432	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
sec-Butylbenzene	U		0.00285	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
tert-Butylbenzene	U		0.00175	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Carbon disulfide	U		0.00457	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Carbon tetrachloride	U		0.00122	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chlorobenzene	U		0.000645	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chlorodibromomethane	U		0.000507	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chloroethane	U		0.00122	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chloroform	U		0.000467	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chloromethane	U		0.00156	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
2-Chlorotoluene	U		0.00104	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
4-Chlorotoluene	U		0.00127	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dibromoethane	U		0.000591	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Dibromomethane	U		0.00113	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dichlorobenzene	U		0.00163	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,3-Dichlorobenzene	U		0.00191	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,4-Dichlorobenzene	U		0.00222	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Dichlorodifluoromethane	U		0.00921	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
1,1-Dichloroethane	U		0.000647	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dichloroethane	U		0.000535	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1-Dichloroethene	0.00373		0.000563	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
cis-1,2-Dichloroethene	1.77		0.00777	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
trans-1,2-Dichloroethene	0.0456		0.00161	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dichloropropane	U		0.00143	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1-Dichloropropene	U		0.000788	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,3-Dichloropropane	U		0.00197	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
trans-1,3-Dichloropropene	U	J4	0.00172	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
trans-1,4-Dichloro-2-butene	U		0.00158	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
2,2-Dichloropropane	U		0.000893	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Di-isopropyl ether	U		0.000394	0.00113	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Ethylbenzene	U		0.000597	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
2-Hexanone	U		0.0113	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
n-Hexane	U		0.00119	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Iodomethane	U		0.00681	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Isopropylbenzene	U		0.000972	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
p-Isopropyltoluene	U		0.00262	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
2-Butanone (MEK)	0.0306		0.0141	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Methylene Chloride	U		0.00748	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Naphthalene	U		0.00351	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
n-Propylbenzene	U		0.00133	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Styrene	U		0.00307	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1,1,2-Tetrachloroethane	U	J4	0.000563	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1,2,2-Tetrachloroethane	U		0.00439	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Tetrachloroethene	2.31	JO	0.00788	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
Toluene	0.00250	J	0.00141	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2,3-Trichlorobenzene	U		0.00704	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
1,2,4-Trichlorobenzene	U		0.00543	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1,1-Trichloroethane	U		0.000310	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1,2-Trichloroethane	U		0.000994	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Trichloroethene	0.201		0.000450	0.00113	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Trichlorofluoromethane	U		0.000563	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2,3-Trichloropropane	U		0.00574	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2,4-Trimethylbenzene	0.00149	J	0.00131	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2,3-Trimethylbenzene	U		0.00129	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Vinyl acetate	U		0.00396	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Vinyl chloride	0.0167		0.000769	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Xylenes, Total	U		0.00538	0.00732	1	10/22/2018 17:50	<a href="#">WG1184455</a>
(S) Toluene-d8	105			75.0-131		10/22/2018 17:50	<a href="#">WG1184455</a>
(S) Toluene-d8	95.7			75.0-131		10/24/2018 00:46	<a href="#">WG1185221</a>
(S) Dibromofluoromethane	90.1			65.0-129		10/22/2018 17:50	<a href="#">WG1184455</a>
(S) Dibromofluoromethane	120			65.0-129		10/24/2018 00:46	<a href="#">WG1185221</a>
(S) 4-Bromofluorobenzene	91.1			67.0-138		10/22/2018 17:50	<a href="#">WG1184455</a>
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 00:46	<a href="#">WG1185221</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1036161-02 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1036161-02 WG1185221, WG1184455: Not all compounds reportable at lower dilution.



Method Blank (MB)

(MB) R3353689-1 10/24/18 09:40

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1036155-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1036155-24 10/24/18 09:40 • (DUP) R3353689-3 10/24/18 09:40

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	91.0	91.1	1	0.155		10

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3353689-2 10/24/18 09:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	



Method Blank (MB)

(MB) R3353693-1 10/24/18 11:13

Analyte	MB Result %	<u>MB Qualifier</u>	MB MDL %	MB RDL %
Total Solids	0.00100			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1036183-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1036183-01 10/24/18 11:13 • (DUP) R3353693-3 10/24/18 11:13

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	82.2	82.5	1	0.345		10

Laboratory Control Sample (LCS)

(LCS) R3353693-2 10/24/18 11:13

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	100	85.0-115	

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3353171-2 10/22/18 11:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	0.00131	U	0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3353171-2 10/22/18 11:26

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
<i>(S) Toluene-d8</i>	106			75.0-131
<i>(S) Dibromofluoromethane</i>	91.7			65.0-129
<i>(S) 4-Bromofluorobenzene</i>	95.5			67.0-138

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acrylonitrile	0.625	0.571	91.3	45.0-153	
Benzene	0.125	0.126	101	70.0-123	
Bromobenzene	0.125	0.111	88.8	73.0-121	
Bromodichloromethane	0.125	0.124	99.5	73.0-121	





Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromochloromethane	0.125	0.101	80.9	77.0-128	
Bromoform	0.125	0.107	85.3	64.0-132	
Bromomethane	0.125	0.109	87.1	56.0-147	
n-Butylbenzene	0.125	0.0907	72.6	68.0-135	
sec-Butylbenzene	0.125	0.0972	77.8	74.0-130	
tert-Butylbenzene	0.125	0.107	85.4	75.0-127	
Carbon disulfide	0.125	0.101	81.1	56.0-133	
Carbon tetrachloride	0.125	0.112	89.6	66.0-128	
Chlorobenzene	0.125	0.107	85.3	76.0-128	
Chlorodibromomethane	0.125	0.135	108	74.0-127	
Chloroethane	0.125	0.101	80.6	61.0-134	
Chloroform	0.125	0.109	87.2	72.0-123	
Chloromethane	0.125	0.115	91.6	51.0-138	
2-Chlorotoluene	0.125	0.119	94.9	75.0-124	
4-Chlorotoluene	0.125	0.112	89.6	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.111	88.6	59.0-130	
1,2-Dibromoethane	0.125	0.116	92.4	74.0-128	
Dibromomethane	0.125	0.130	104	75.0-122	
1,2-Dichlorobenzene	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.106	85.1	76.0-125	
1,4-Dichlorobenzene	0.125	0.112	89.9	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.139	111	45.0-143	
1,1-Dichloroethane	0.125	0.125	100	70.0-127	
1,2-Dichloroethane	0.125	0.127	101	65.0-131	
1,1-Dichloroethene	0.125	0.119	95.1	65.0-131	
trans-1,2-Dichloroethene	0.125	0.105	83.8	71.0-125	
1,2-Dichloropropane	0.125	0.114	91.1	74.0-125	
1,1-Dichloropropene	0.125	0.128	102	73.0-125	
1,3-Dichloropropane	0.125	0.106	84.7	80.0-125	
cis-1,3-Dichloropropene	0.125	0.129	104	76.0-127	
trans-1,3-Dichloropropene	0.125	0.186	149	73.0-127	J4
2,2-Dichloropropane	0.125	0.137	110	59.0-135	
Di-isopropyl ether	0.125	0.115	92.4	60.0-136	
Ethylbenzene	0.125	0.111	88.5	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.182	146	57.0-150	
2-Hexanone	0.625	0.633	101	54.0-147	
n-Hexane	0.125	0.164	131	55.0-137	
Iodomethane	0.625	0.657	105	74.0-134	
Isopropylbenzene	0.125	0.110	88.1	72.0-127	
p-Isopropyltoluene	0.125	0.0984	78.8	72.0-133	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3353171-1 10/22/18 10:17

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
2-Butanone (MEK)	0.625	0.692	111	30.0-160	
Methylene Chloride	0.125	0.0916	73.3	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.706	113	56.0-143	
Methyl tert-butyl ether	0.125	0.119	94.8	66.0-132	
Naphthalene	0.125	0.109	87.5	59.0-130	
n-Propylbenzene	0.125	0.123	98.1	74.0-126	
Styrene	0.125	0.111	89.1	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.165	132	74.0-129	J4
Toluene	0.125	0.115	92.1	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.0912	73.0	61.0-139	
1,2,4-Trichlorobenzene	0.125	0.128	103	62.0-137	
1,1,1-Trichloroethane	0.125	0.138	111	69.0-126	
1,1,2-Trichloroethane	0.125	0.118	94.4	78.0-123	
Trichloroethene	0.125	0.127	101	76.0-126	
Trichlorofluoromethane	0.125	0.120	95.7	61.0-142	
1,2,3-Trichloropropane	0.125	0.120	96.1	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.126	101	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.111	88.7	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.116	92.9	73.0-127	
Vinyl acetate	0.625	0.530	84.7	43.0-159	
Vinyl chloride	0.125	0.125	99.7	63.0-134	
Xylenes, Total	0.375	0.361	96.3	72.0-127	
<i>(S) Toluene-d8</i>			104	75.0-131	
<i>(S) Dibromofluoromethane</i>			90.5	65.0-129	
<i>(S) 4-Bromofluorobenzene</i>			88.9	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3353491-2 10/23/18 10:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Dichlorodifluoromethane	U		0.000818	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
(S) Toluene-d8	97.2			75.0-131
(S) Dibromofluoromethane	116			65.0-129
(S) 4-Bromofluorobenzene	121			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3353491-1 10/23/18 09:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.680	109	10.0-160	
Dichlorodifluoromethane	0.125	0.142	114	43.0-156	
cis-1,2-Dichloroethene	0.125	0.141	113	73.0-125	
1,1,2,2-Tetrachloroethane	0.125	0.137	110	68.0-128	
Tetrachloroethene	0.125	0.0951	76.1	70.0-136	
1,2,3-Trichlorobenzene	0.125	0.116	92.7	59.0-139	
(S) Toluene-d8			98.4	75.0-131	
(S) Dibromofluoromethane			118	65.0-129	
(S) 4-Bromofluorobenzene			120	67.0-138	

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

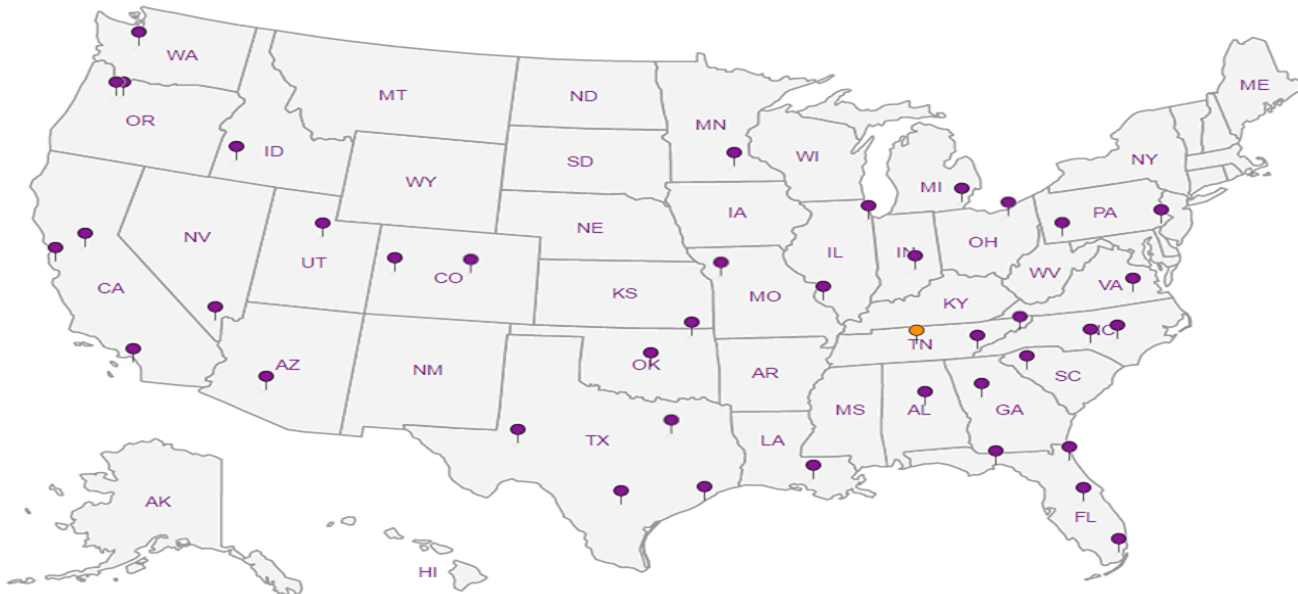
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com

Project:  
Description: American Linen

City/State  
Collected: Seattle WA

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
~~1413-001-05~~ Contact  
PM for Project #

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
S. McKernan  
R. McLaughlin

Site/Facility ID #

P.O. #

Collected by (signature):  
RTH

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
Date Results Needed

Immediately Packed on Ice N  Y

No.  
of  
Cnts

VOCs V8260C. 40mlAmb/MeOH5ml/Syr

dry weight 2ozClr-NoPres

trip VOCs V8260LLC. 40mlAmb-HCl-Bik

L# 21036161

Table #  
Acctnum: PESENVSWA

Template: T141621  
Prelogin: P676248

TSR: 110 - Brian Ford  
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs																	
IW-58A-38	Grab	SS	38	10/17/18	1510	2	X	X															
B-929-38	Grab	SS	38	10/17/18	1520	2	X	X															
		SS																					
		SS																					
		SS																					
		SS																					
		SS																					
		SS																					
		SS																					

R. McLaughlin  
10/17/18

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
Samples returned via:  
UPS FedEx Courier

RAD SCREEN: <0.5 mR/hr

Tracking # 4196 3258 9710

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Check/Log  
 COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headpace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)  
R. McLaughlin  
Date: 10/17/18 Time: 1610

Received by: (Signature)  
Trip Blank Received:  Yes  No  
HCL / MeOH TBH

If preservation required by Login: Date/Time

Relinquished by: (Signature)  
Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)  
asm  
Temp: 21.5°C Bottles Received: 74  
Date: 10/18/18 Time: 845

Hold: \_\_\_\_\_ Condition: NCF /  OK

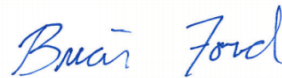


October 26, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1036481  
Samples Received: 10/19/2018  
Project Number: 1413.001.05  
Description: American Linen  
Site: 1413.001.05.304  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b><sup>1</sup>Cp</b>
<b>Tc: Table of Contents</b>	<b>2</b>	<b><sup>2</sup>Tc</b>
<b>Ss: Sample Summary</b>	<b>3</b>	<b><sup>3</sup>Ss</b>
<b>Cn: Case Narrative</b>	<b>4</b>	<b><sup>4</sup>Cn</b>
<b>Sr: Sample Results</b>	<b>5</b>	<b><sup>5</sup>Sr</b>
IW-16D-85 L1036481-01	<b>5</b>	
IW-16D-90 L1036481-02	<b>7</b>	
IW-16D-95 L1036481-03	<b>9</b>	
<b>Qc: Quality Control Summary</b>	<b>11</b>	<b><sup>6</sup>Qc</b>
Total Solids by Method 2540 G-2011	<b>11</b>	
Volatile Organic Compounds (GC/MS) by Method 8260C	<b>13</b>	
<b>Gl: Glossary of Terms</b>	<b>17</b>	<b><sup>7</sup>Gl</b>
<b>Al: Accreditations &amp; Locations</b>	<b>18</b>	<b><sup>8</sup>Al</b>
<b>Sc: Sample Chain of Custody</b>	<b>19</b>	<b><sup>9</sup>Sc</b>



# SAMPLE SUMMARY



## IW-16D-85 L1036481-01 Solid

Collected by  
S. McKernan  
Collected date/time  
10/18/18 12:11  
Received date/time  
10/19/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185671	1	10/24/18 13:53	10/24/18 14:00	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1186559	4	10/18/18 12:11	10/26/18 05:55	LRL

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## IW-16D-90 L1036481-02 Solid

Collected by  
S. McKernan  
Collected date/time  
10/18/18 12:13  
Received date/time  
10/19/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185771	1	10/24/18 14:04	10/24/18 14:15	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1186559	1	10/18/18 12:13	10/26/18 00:50	LRL

## IW-16D-95 L1036481-03 Solid

Collected by  
S. McKernan  
Collected date/time  
10/18/18 12:15  
Received date/time  
10/19/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1185771	1	10/24/18 14:04	10/24/18 14:15	JD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1186559	4	10/18/18 12:15	10/26/18 06:14	LRL



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Collected date/time: 10/18/18 12:11

L1036481

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	10/24/2018 14:00	<a href="#">WG1185671</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0639	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Acrylonitrile	U		0.00886	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Benzene	0.00321	J	0.00186	0.00466	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromobenzene	U		0.00489	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromodichloromethane	U		0.00367	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromochloromethane	U		0.00527	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromoform	U		0.0278	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromomethane	U		0.0172	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
n-Butylbenzene	U		0.0179	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
sec-Butylbenzene	U		0.0118	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
tert-Butylbenzene	U		0.00722	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Carbon disulfide	U		0.0189	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Carbon tetrachloride	U		0.00503	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chlorobenzene	U		0.00267	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chlorodibromomethane	U		0.00210	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chloroethane	U		0.00503	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chloroform	0.00193	J	0.00193	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chloromethane	U		0.00648	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
2-Chlorotoluene	U		0.00429	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
4-Chlorotoluene	U		0.00527	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dibromo-3-Chloropropane	U		0.0238	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dibromoethane	U		0.00245	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Dibromomethane	U		0.00466	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dichlorobenzene	U		0.00676	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,3-Dichlorobenzene	U		0.00792	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,4-Dichlorobenzene	U		0.00918	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Dichlorodifluoromethane	U		0.00381	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1-Dichloroethane	U		0.00268	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dichloroethane	U		0.00221	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1-Dichloroethene	U		0.00233	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
cis-1,2-Dichloroethene	0.336		0.00322	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
trans-1,2-Dichloroethene	U		0.00666	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dichloropropane	U		0.00592	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1-Dichloropropene	U		0.00326	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,3-Dichloropropane	U		0.00816	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
cis-1,3-Dichloropropene	U		0.00316	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
trans-1,3-Dichloropropene	U		0.00713	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
trans-1,4-Dichloro-2-butene	U		0.00653	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
2,2-Dichloropropane	U		0.00369	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Di-isopropyl ether	U		0.00163	0.00466	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Ethylbenzene	0.00256	J	0.00247	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Hexachloro-1,3-butadiene	U		0.0592	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
2-Hexanone	U		0.0466	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
n-Hexane	U		0.00494	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Iodomethane	U		0.0282	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Isopropylbenzene	U		0.00402	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
p-Isopropyltoluene	U		0.0109	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
2-Butanone (MEK)	U		0.0583	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Methylene Chloride	U		0.0310	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
4-Methyl-2-pentanone (MIBK)	U		0.0466	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 12:11

L1036481

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00137	0.00466	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Naphthalene	U		0.0146	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
n-Propylbenzene	U		0.00550	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Styrene	U		0.0127	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,1,2-Tetrachloroethane	U		0.00233	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,2,2-Tetrachloroethane	U		0.00182	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,2-Trichlorotrifluoroethane	U		0.00315	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Tetrachloroethene	1.35		0.00326	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Toluene	0.00897	J	0.00583	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,3-Trichlorobenzene	U		0.00291	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,4-Trichlorobenzene	U		0.0225	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,1-Trichloroethane	U		0.00128	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,2-Trichloroethane	U		0.00411	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Trichloroethene	0.336		0.00186	0.00466	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Trichlorofluoromethane	U		0.00233	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,3-Trichloropropane	U		0.0238	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,4-Trimethylbenzene	U		0.00541	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,3-Trimethylbenzene	U		0.00536	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,3,5-Trimethylbenzene	U		0.00503	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Vinyl acetate	U		0.0164	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Vinyl chloride	U		0.00318	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Xylenes, Total	U		0.0223	0.0303	4	10/26/2018 05:55	<a href="#">WG1186559</a>
(S) Toluene-d8	104			75.0-131		10/26/2018 05:55	<a href="#">WG1186559</a>
(S) Dibromofluoromethane	95.5			65.0-129		10/26/2018 05:55	<a href="#">WG1186559</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/26/2018 05:55	<a href="#">WG1186559</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1036481-01 WG1186559: Diluted due to high levels of target analytes.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.3		1	10/24/2018 14:15	<a href="#">WG1185771</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0162	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Acrylonitrile	U		0.00225	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Benzene	U		0.000474	0.00119	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromobenzene	U		0.00124	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromodichloromethane	U		0.000934	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromochloromethane	U		0.00134	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromoform	U		0.00709	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromomethane	U		0.00439	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
n-Butylbenzene	U		0.00455	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
sec-Butylbenzene	U		0.00300	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
tert-Butylbenzene	U		0.00184	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Carbon disulfide	U		0.00481	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Carbon tetrachloride	U		0.00128	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chlorobenzene	U		0.000679	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chlorodibromomethane	U		0.000534	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chloroethane	U		0.00128	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chloroform	U		0.000492	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chloromethane	U		0.00165	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
2-Chlorotoluene	U		0.00109	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
4-Chlorotoluene	U		0.00134	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dibromo-3-Chloropropane	U		0.00605	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dibromoethane	U		0.000622	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Dibromomethane	U		0.00119	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dichlorobenzene	U		0.00172	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,3-Dichlorobenzene	U		0.00202	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,4-Dichlorobenzene	U		0.00234	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Dichlorodifluoromethane	U		0.000970	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1-Dichloroethane	U		0.000682	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dichloroethane	U		0.000563	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1-Dichloroethene	0.00433		0.000593	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
cis-1,2-Dichloroethene	0.0191		0.000818	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
trans-1,2-Dichloroethene	U		0.00170	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dichloropropane	U		0.00151	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1-Dichloropropene	U		0.000830	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,3-Dichloropropane	U		0.00207	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
cis-1,3-Dichloropropene	U		0.000804	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
trans-1,3-Dichloropropene	U		0.00181	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
trans-1,4-Dichloro-2-butene	U		0.00166	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
2,2-Dichloropropane	U		0.000940	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Di-isopropyl ether	U		0.000415	0.00119	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Ethylbenzene	U		0.000628	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Hexachloro-1,3-butadiene	U		0.0151	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
2-Hexanone	U		0.0119	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
n-Hexane	U		0.00126	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Iodomethane	U		0.00717	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Isopropylbenzene	U		0.00102	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
p-Isopropyltoluene	U		0.00276	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
2-Butanone (MEK)	U		0.0148	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Methylene Chloride	U		0.00787	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/18/18 12:13

L1036481

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Naphthalene	U		0.00370	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
n-Propylbenzene	U		0.00140	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Styrene	U		0.00324	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,1,2-Tetrachloroethane	U		0.000593	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,2,2-Tetrachloroethane	U		0.000462	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,2-Trichlorotrifluoroethane	U		0.000800	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Tetrachloroethene	0.0916		0.000830	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Toluene	U		0.00148	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,3-Trichlorobenzene	U		0.000741	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,4-Trichlorobenzene	U		0.00571	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,1-Trichloroethane	U		0.000326	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,2-Trichloroethane	U		0.00105	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Trichloroethene	0.140		0.000474	0.00119	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Trichlorofluoromethane	U		0.000593	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,3-Trichloropropane	U		0.00605	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,4-Trimethylbenzene	U		0.00138	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,3-Trimethylbenzene	U		0.00136	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,3,5-Trimethylbenzene	U		0.00128	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Vinyl acetate	U		0.00417	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Vinyl chloride	U		0.000810	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Xylenes, Total	U		0.00567	0.00771	1	10/26/2018 00:50	<a href="#">WG1186559</a>
(S) Toluene-d8	105			75.0-131		10/26/2018 00:50	<a href="#">WG1186559</a>
(S) Dibromofluoromethane	94.7			65.0-129		10/26/2018 00:50	<a href="#">WG1186559</a>
(S) 4-Bromofluorobenzene	104			67.0-138		10/26/2018 00:50	<a href="#">WG1186559</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	10/24/2018 14:15	<a href="#">WG1185771</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0663	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Acrylonitrile	U		0.00920	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Benzene	U		0.00194	0.00484	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromobenzene	U		0.00509	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromodichloromethane	U		0.00381	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromochloromethane	U		0.00547	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromoform	U		0.0289	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromomethane	U		0.0179	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
n-Butylbenzene	U		0.0186	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
sec-Butylbenzene	U		0.0122	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
tert-Butylbenzene	U		0.00751	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Carbon disulfide	U		0.0196	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Carbon tetrachloride	U		0.00523	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chlorobenzene	U		0.00277	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chlorodibromomethane	U		0.00218	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chloroethane	U		0.00523	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chloroform	U		0.00201	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chloromethane	U		0.00673	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
2-Chlorotoluene	U		0.00446	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
4-Chlorotoluene	U		0.00547	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dibromo-3-Chloropropane	U		0.0247	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dibromoethane	U		0.00254	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Dibromomethane	U		0.00484	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dichlorobenzene	U		0.00702	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,3-Dichlorobenzene	U		0.00823	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,4-Dichlorobenzene	U		0.00954	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Dichlorodifluoromethane	U		0.00396	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1-Dichloroethane	U		0.00278	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dichloroethane	U		0.00230	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1-Dichloroethene	U		0.00242	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
cis-1,2-Dichloroethene	0.0238		0.00334	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
trans-1,2-Dichloroethene	U		0.00693	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dichloropropane	U		0.00615	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1-Dichloropropene	U		0.00339	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,3-Dichloropropane	U		0.00848	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
cis-1,3-Dichloropropene	U		0.00328	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
trans-1,3-Dichloropropene	U		0.00741	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
trans-1,4-Dichloro-2-butene	U		0.00678	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
2,2-Dichloropropane	U		0.00384	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Di-isopropyl ether	U		0.00170	0.00484	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Ethylbenzene	U		0.00257	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Hexachloro-1,3-butadiene	U		0.0615	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
2-Hexanone	U		0.0484	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
n-Hexane	U		0.00513	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Iodomethane	U		0.0293	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Isopropylbenzene	U		0.00418	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
p-Isopropyltoluene	U		0.0113	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
2-Butanone (MEK)	U		0.0605	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Methylene Chloride	U		0.0322	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
4-Methyl-2-pentanone (MIBK)	U		0.0484	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/18/18 12:15

L1036481

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00143	0.00484	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Naphthalene	U		0.0151	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
n-Propylbenzene	U		0.00571	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Styrene	U		0.0132	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,1,2-Tetrachloroethane	U		0.00242	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,2,2-Tetrachloroethane	U		0.00189	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,2-Trichlorotrifluoroethane	U		0.00327	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Tetrachloroethene	1.47		0.00339	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Toluene	U		0.00605	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,3-Trichlorobenzene	U		0.00303	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,4-Trichlorobenzene	U		0.0234	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,1-Trichloroethane	U		0.00133	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,2-Trichloroethane	U		0.00427	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Trichloroethene	0.564		0.00194	0.00484	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Trichlorofluoromethane	U		0.00242	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,3-Trichloropropane	U		0.0247	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,4-Trimethylbenzene	U		0.00562	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,3-Trimethylbenzene	U		0.00557	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,3,5-Trimethylbenzene	U		0.00523	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Vinyl acetate	U		0.0171	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Vinyl chloride	U		0.00331	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Xylenes, Total	U		0.0231	0.0315	4	10/26/2018 06:14	<a href="#">WG1186559</a>
(S) Toluene-d8	107			75.0-131		10/26/2018 06:14	<a href="#">WG1186559</a>
(S) Dibromofluoromethane	99.2			65.0-129		10/26/2018 06:14	<a href="#">WG1186559</a>
(S) 4-Bromofluorobenzene	106			67.0-138		10/26/2018 06:14	<a href="#">WG1186559</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1036481-03 WG1186559: Diluted due to high levels of target analytes.





Method Blank (MB)

(MB) R3353714-1 10/24/18 14:00

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1036473-29 Original Sample (OS) • Duplicate (DUP)

(OS) L1036473-29 10/24/18 14:00 • (DUP) R3353714-3 10/24/18 14:00

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	91.7	93.4	1	1.86		10

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3353714-2 10/24/18 14:00

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3353770-1 10/24/18 14:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

L1036481-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1036481-02 10/24/18 14:15 • (DUP) R3353770-3 10/24/18 14:15

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	84.3	84.2	1	0.119		10

<sup>7</sup> Gl

<sup>8</sup> Al

Laboratory Control Sample (LCS)

(LCS) R3353770-2 10/24/18 14:15

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3354173-2 10/26/18 00:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromochloromethane	U		0.00113	0.00500
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon disulfide	U		0.00406	0.0125
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
trans-1,4-Dichloro-2-butene	U		0.00140	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3354173-2 10/26/18 00:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
n-Hexane	U		0.00106	0.00500
2-Hexanone	U		0.0100	0.0250
Iodomethane	U		0.00605	0.0125
Isopropylbenzene	U		0.000863	0.00250
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.00736	U	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl acetate	U		0.00352	0.0125
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	108			75.0-131
(S) Dibromofluoromethane	94.3			65.0-129
(S) 4-Bromofluorobenzene	102			67.0-138

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS)

(LCS) R3354173-1 10/25/18 22:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Acetone	0.625	0.689	110	10.0-160	
Acrylonitrile	0.625	0.549	87.9	45.0-153	
Benzene	0.125	0.126	101	70.0-123	
Bromobenzene	0.125	0.118	94.4	73.0-121	
Bromodichloromethane	0.125	0.100	80.2	73.0-121	
Bromochloromethane	0.125	0.122	97.6	77.0-128	
Bromoform	0.125	0.116	93.2	64.0-132	
Bromomethane	0.125	0.128	102	56.0-147	
n-Butylbenzene	0.125	0.119	95.1	68.0-135	
sec-Butylbenzene	0.125	0.125	99.8	74.0-130	
tert-Butylbenzene	0.125	0.127	102	75.0-127	
Carbon disulfide	0.125	0.133	106	56.0-133	
Carbon tetrachloride	0.125	0.136	109	66.0-128	
Chlorobenzene	0.125	0.132	105	76.0-128	
Chlorodibromomethane	0.125	0.128	103	74.0-127	
Chloroethane	0.125	0.130	104	61.0-134	
Chloroform	0.125	0.130	104	72.0-123	
Chloromethane	0.125	0.132	105	51.0-138	
2-Chlorotoluene	0.125	0.140	112	75.0-124	
4-Chlorotoluene	0.125	0.128	102	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.106	85.1	59.0-130	
1,2-Dibromoethane	0.125	0.127	101	74.0-128	
Dibromomethane	0.125	0.133	107	75.0-122	
1,2-Dichlorobenzene	0.125	0.127	102	76.0-124	
1,3-Dichlorobenzene	0.125	0.123	98.5	76.0-125	
1,4-Dichlorobenzene	0.125	0.117	93.2	77.0-121	
trans-1,4-Dichloro-2-butene	0.125	0.116	93.1	45.0-143	
Dichlorodifluoromethane	0.125	0.126	100	43.0-156	
1,1-Dichloroethane	0.125	0.127	101	70.0-127	
1,2-Dichloroethane	0.125	0.124	99.2	65.0-131	
1,1-Dichloroethene	0.125	0.133	106	65.0-131	
cis-1,2-Dichloroethene	0.125	0.131	105	73.0-125	
trans-1,2-Dichloroethene	0.125	0.122	97.9	71.0-125	
1,2-Dichloropropane	0.125	0.128	103	74.0-125	
1,1-Dichloropropene	0.125	0.130	104	73.0-125	
1,3-Dichloropropane	0.125	0.121	97.0	80.0-125	
cis-1,3-Dichloropropene	0.125	0.119	94.9	76.0-127	
trans-1,3-Dichloropropene	0.125	0.126	101	73.0-127	
2,2-Dichloropropane	0.125	0.169	135	59.0-135	
Di-isopropyl ether	0.125	0.117	93.8	60.0-136	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS)

(LCS) R3354173-1 10/25/18 22:28

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Ethylbenzene	0.125	0.136	109	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.125	100	57.0-150	
2-Hexanone	0.625	0.653	104	54.0-147	
n-Hexane	0.125	0.151	121	55.0-137	
Iodomethane	0.625	0.607	97.1	74.0-134	
Isopropylbenzene	0.125	0.129	103	72.0-127	
p-Isopropyltoluene	0.125	0.131	105	72.0-133	
2-Butanone (MEK)	0.625	0.618	98.8	30.0-160	
Methylene Chloride	0.125	0.130	104	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.699	112	56.0-143	
Methyl tert-butyl ether	0.125	0.131	105	66.0-132	
Naphthalene	0.125	0.113	90.7	59.0-130	
n-Propylbenzene	0.125	0.126	101	74.0-126	
Styrene	0.125	0.123	98.6	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.127	102	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.119	94.9	68.0-128	
Tetrachloroethene	0.125	0.150	120	70.0-136	
Toluene	0.125	0.128	102	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.118	94.0	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.0973	77.8	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.112	89.5	62.0-137	
1,1,1-Trichloroethane	0.125	0.147	117	69.0-126	
1,1,2-Trichloroethane	0.125	0.116	93.2	78.0-123	
Trichloroethene	0.125	0.136	109	76.0-126	
Trichlorofluoromethane	0.125	0.138	111	61.0-142	
1,2,3-Trichloropropane	0.125	0.129	103	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.124	98.8	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.121	97.0	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.130	104	73.0-127	
Vinyl acetate	0.625	0.660	106	43.0-159	
Vinyl chloride	0.125	0.128	103	63.0-134	
Xylenes, Total	0.375	0.406	108	72.0-127	
(S) Toluene-d8			102	75.0-131	
(S) Dibromofluoromethane			100	65.0-129	
(S) 4-Bromofluorobenzene			103	67.0-138	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
---	---



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

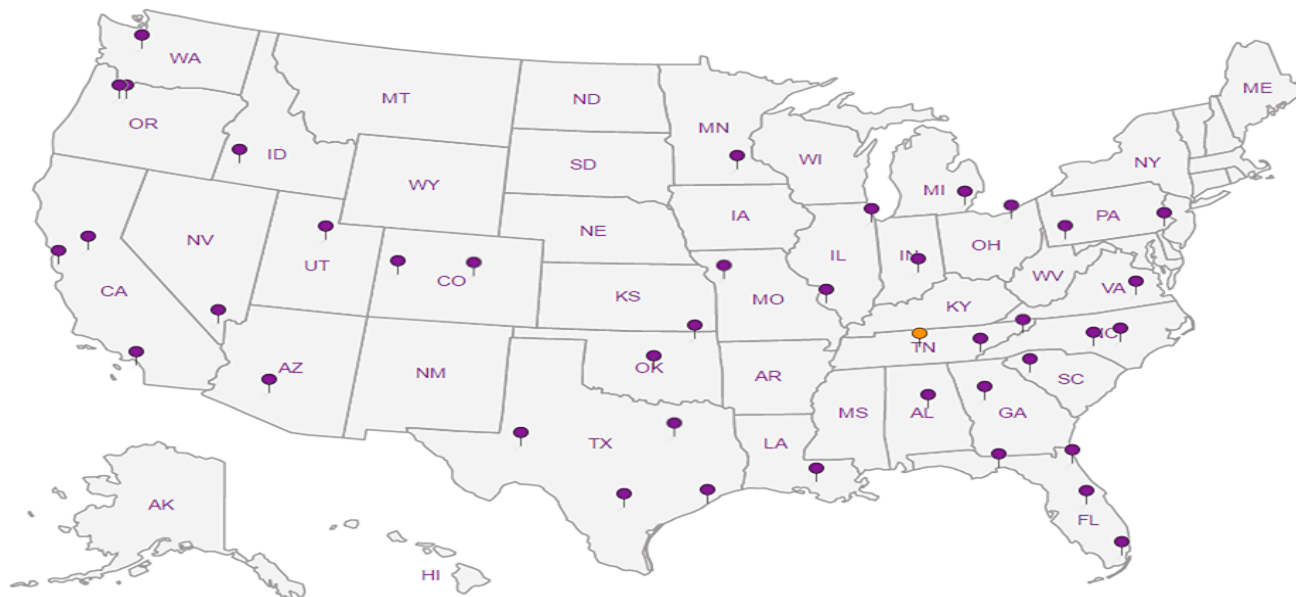
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com

Project  
Description: **American Linen**

City/State  
Collected: **SEATTLE, WA**

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
**1413.001.05**


Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**S. MCKERNAN**

Site/Facility ID #  
**H13.001.05.304**

P.O. #

Collected by (signature):



**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed

Immediately  
Packed on Ice N  Y

No.  
of  
Cntrs

VOCs V8260C 40mlAmb/MeOH5ml/Syr

dry weight 2ozCir-NoPres

trip VOCs V8260LLC 40mlAmb-HCl-Bik

L# **L1036481**  
**E064**

Acctnum: **PESENVSWA**

Template: **T141621**

Prelogin: **P676248**

TSR: **110 - Brian Ford**

PB:

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Remarks	Sample # (lab only)
1W-16D-48	GRAB	SS	48	10/17/18	1702	2	HOLD	
1W-16D-55	↓	SS	55	10/18/18	1705	2	HOLD	
1W-16D-85	↓	SS	85	10/18/18	1211	2	X	-01
1W-16D-90	↓	SS	90	↓	1213	2	X	02
1W-16D-95	↓	SS	95	↓	1215	2	X	03
		SS						
		SS						
		SS						
		SS						
		SS						
		SS						

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

**RAD SCREEN: <0.5 mR/hr**

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

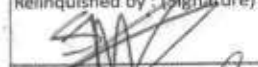
Samples returned via:

UPS FedEx Courier

Tracking # **4196 3258 7989**

**Sample Receipt Checklist**  
 COC Seal Present/Intact:  NP  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 if Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)



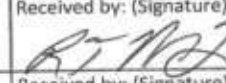
Date:

10/18/18

Time:

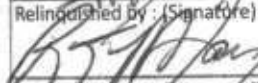
1555

Received by: (Signature)



Trip Blank Received: Yes /  No  
HCL / MeOH  
TBR

Relinquished by: (Signature)



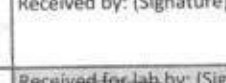
Date:

10/18/18

Time:

1620

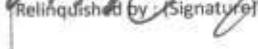
Received by: (Signature)



Temp: 3.5 <sup>±</sup> 1 °C  
Bottles Received: 10

If preservation required by Login: Date/Time

Relinquished by: (Signature)



Date:

10/18/18

Time:

8:45

Received for lab by: (Signature)



Date: 10/18/18  
Time: 8:45

**10-147**

Condition:  
NCF /  OK

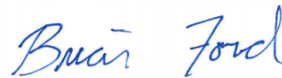
November 06, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1038864  
Samples Received: 10/27/2018  
Project Number: 1413.001.05.601  
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161










Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
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<b>Cn: Case Narrative</b>	<b>5</b>	
<b>Sr: Sample Results</b>	<b>6</b>	
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IW-MW-02-102618 L1038864-02	8	
MW-152-102618 L1038864-03	10	
MW-151-102518 L1038864-04	12	
MW-131-102518 L1038864-05	14	
MW-139-102518 L1038864-06	16	
MW-132-102518 L1038864-07	18	
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# SAMPLE SUMMARY



## MW-300-102618 L1038864-01 GW

Collected by  
R. McLaughlin

Collected date/time  
10/26/18 13:00

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	1	10/31/18 19:40	10/31/18 19:40	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188129	1	11/06/18 13:41	11/06/18 13:41	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1192268	1	11/06/18 16:15	11/06/18 16:15	BMB

1  
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Cn

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Sr

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Qc

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Gl

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Al

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Sc

## IW-MW-02-102618 L1038864-02 GW

Collected by  
R. McLaughlin

Collected date/time  
10/26/18 12:00

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	1	10/31/18 20:02	10/31/18 20:02	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 18:01	10/29/18 18:01	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	1	11/05/18 14:11	11/05/18 14:11	BMB

## MW-152-102618 L1038864-03 GW

Collected by  
R. McLaughlin

Collected date/time  
10/26/18 08:07

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	20	10/31/18 20:25	10/31/18 20:25	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	50	10/29/18 18:21	10/29/18 18:21	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	2000	11/05/18 15:50	11/05/18 15:50	BMB

## MW-151-102518 L1038864-04 GW

Collected by  
R. McLaughlin

Collected date/time  
10/25/18 16:17

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	1	10/31/18 20:48	10/31/18 20:48	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 18:40	10/29/18 18:40	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	1	11/05/18 14:31	11/05/18 14:31	BMB

## MW-131-102518 L1038864-05 GW

Collected by  
R. McLaughlin

Collected date/time  
10/25/18 14:47

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	1	10/31/18 21:11	10/31/18 21:11	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 19:00	10/29/18 19:00	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	1	11/05/18 14:51	11/05/18 14:51	BMB

## MW-139-102518 L1038864-06 GW

Collected by  
R. McLaughlin

Collected date/time  
10/25/18 13:57

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	1	10/31/18 21:33	10/31/18 21:33	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 19:19	10/29/18 19:19	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	1	11/05/18 15:10	11/05/18 15:10	BMB

# SAMPLE SUMMARY



## MW-132-102518 L1038864-07 GW

Collected by  
R. McLaughlin

Collected date/time  
10/25/18 13:07

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	1	10/31/18 21:56	10/31/18 21:56	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 19:38	10/29/18 19:38	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	1	11/05/18 15:30	11/05/18 15:30	BMB

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-135-102518 L1038864-08 GW

Collected by  
R. McLaughlin

Collected date/time  
10/25/18 12:12

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	20	10/31/18 22:19	10/31/18 22:19	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	25	10/29/18 19:57	10/29/18 19:57	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	1000	11/05/18 16:10	11/05/18 16:10	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	200	11/05/18 18:09	11/05/18 18:09	BMB

## MW-150-102518 L1038864-09 GW

Collected by  
R. McLaughlin

Collected date/time  
10/25/18 11:12

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	5	10/31/18 22:42	10/31/18 22:42	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 20:17	10/29/18 20:17	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	500	11/05/18 16:30	11/05/18 16:30	BMB

## MW-149-102518 L1038864-10 GW

Collected by  
R. McLaughlin

Collected date/time  
10/25/18 10:28

Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189237	1	10/31/18 23:04	10/31/18 23:04	ACE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 20:36	10/29/18 20:36	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191566	200	11/05/18 16:50	11/05/18 16:50	BMB



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

### Sample Handling and Receiving

---

VOC pH outside of method requirement.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1038864-01</a>	<a href="#">MW-300-102618</a>	8260C

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	246	<u>B</u>	31.6	100	1	10/31/2018 19:40	<a href="#">WG1189237</a>
(S) a,a,a-Trifluorotoluene(FID)	91.7			78.0-120		10/31/2018 19:40	<a href="#">WG1189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.87	<u>J</u>	1.05	25.0	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Acrylonitrile	U		0.873	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Benzene	U		0.0896	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Bromobenzene	U		0.133	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Bromodichloromethane	U		0.0800	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Bromochloromethane	U		0.145	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Bromoform	U		0.186	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Bromomethane	U		0.157	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
n-Butylbenzene	U		0.143	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
sec-Butylbenzene	U		0.134	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
tert-Butylbenzene	U		0.183	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Carbon disulfide	U		0.101	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Carbon tetrachloride	U		0.159	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Chlorobenzene	U		0.140	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Chlorodibromomethane	U		0.128	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Chloroethane	U		0.141	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Chloroform	U		0.0860	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Chloromethane	U		0.153	1.25	1	11/06/2018 13:41	<a href="#">WG1188129</a>
2-Chlorotoluene	U		0.111	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
4-Chlorotoluene	U		0.0972	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2-Dibromoethane	U		0.193	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Dibromomethane	U		0.117	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1-Dichloroethane	U		0.114	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2-Dichloroethane	U		0.108	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1-Dichloroethene	U		0.188	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
cis-1,2-Dichloroethene	2.11	<u>B</u>	0.0933	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
trans-1,2-Dichloroethene	0.435	<u>J</u>	0.152	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2-Dichloropropane	U		0.190	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1-Dichloropropene	U		0.128	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,3-Dichloropropane	U		0.147	1.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
2,2-Dichloropropane	U		0.0929	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Di-isopropyl ether	U		0.0924	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Ethylbenzene	U		0.158	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Hexachloro-1,3-butadiene	0.202	<u>B J</u>	0.157	1.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
2-Hexanone	U		0.757	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
n-Hexane	U		0.305	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Iodomethane	U		0.377	10.0	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Isopropylbenzene	U		0.126	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
p-Isopropyltoluene	U		0.138	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
2-Butanone (MEK)	U		1.28	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>



Collected date/time: 10/26/18 13:00

L1038864

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Methyl tert-butyl ether	U		0.102	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Naphthalene	0.191	<u>J</u>	0.174	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
n-Propylbenzene	U		0.162	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Styrene	U		0.117	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Tetrachloroethene	U		0.199	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Toluene	0.587		0.412	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,3-Trichlorobenzene	0.181	<u>B J</u>	0.164	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Trichloroethene	U		0.153	0.500	1	11/06/2018 16:15	<a href="#">WG1192268</a>
Trichlorofluoromethane	U		0.130	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Vinyl chloride	1.80		0.118	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Xylenes, Total	U		0.316	1.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
(S) Toluene-d8	99.4			80.0-120		11/06/2018 13:41	<a href="#">WG1188129</a>
(S) Toluene-d8	103			80.0-120		11/06/2018 16:15	<a href="#">WG1192268</a>
(S) Dibromofluoromethane	108			75.0-120		11/06/2018 13:41	<a href="#">WG1188129</a>
(S) Dibromofluoromethane	97.8			75.0-120		11/06/2018 16:15	<a href="#">WG1192268</a>
(S) 4-Bromofluorobenzene	106			77.0-126		11/06/2018 13:41	<a href="#">WG1188129</a>
(S) 4-Bromofluorobenzene	99.4			77.0-126		11/06/2018 16:15	<a href="#">WG1192268</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 10/26/18 12:00

L1038864

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	90.2	<u>B</u> <u>J</u>	31.6	100	1	10/31/2018 20:02	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	92.4			78.0-120		10/31/2018 20:02	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.42	<u>J</u> <u>JO</u>	1.05	25.0	1	10/29/2018 18:01	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 18:01	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 18:01	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Carbon disulfide	0.214	<u>J</u>	0.101	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 18:01	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 14:11	<a href="#">WG191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 14:11	<a href="#">WG191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	2.01		0.0933	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	0.410	<u>J</u>	0.152	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 18:01	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 14:11	<a href="#">WG191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 18:01	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 18:01	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 18:01	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 18:01	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 18:01	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 18:01	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Tetrachloroethene	U		0.199	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Toluene	0.641		0.412	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Trichloroethene	U		0.153	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Vinyl chloride	1.41		0.118	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
(S) Toluene-d8	102			80.0-120		10/29/2018 18:01	<a href="#">WG1188131</a>
(S) Toluene-d8	104			80.0-120		11/05/2018 14:11	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	93.0			75.0-120		10/29/2018 18:01	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.6			75.0-120		11/05/2018 14:11	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	103			77.0-126		10/29/2018 18:01	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	84.1			77.0-126		11/05/2018 14:11	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	36700		632	2000	20	10/31/2018 20:25	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	92.6			78.0-120		10/31/2018 20:25	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	65.4	<u>J JO</u>	52.5	1250	50	10/29/2018 18:21	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	43.6	250	50	10/29/2018 18:21	<a href="#">WG188131</a>
Benzene	U		4.48	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromobenzene	U		6.65	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromodichloromethane	U		4.00	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromochloromethane	U		7.25	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromoform	U		9.30	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	7.85	125	50	10/29/2018 18:21	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	7.15	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
sec-Butylbenzene	U		6.70	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
tert-Butylbenzene	U		9.15	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Carbon disulfide	U		5.05	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Carbon tetrachloride	U		7.95	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chlorobenzene	U		7.00	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chlorodibromomethane	U		6.40	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	7.05	125	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chloroform	4.46	<u>J</u>	4.30	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chloromethane	U		306	2500	2000	11/05/2018 15:50	<a href="#">WG191566</a>
2-Chlorotoluene	U		5.55	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
4-Chlorotoluene	U		4.86	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	16.2	125	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dibromoethane	U		9.65	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Dibromomethane	U		5.85	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		5.05	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		6.50	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		6.05	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		254	5000	2000	11/05/2018 15:50	<a href="#">WG191566</a>
1,1-Dichloroethane	U		5.70	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	5.40	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,1-Dichloroethene	86.9		9.40	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	73000		187	1000	2000	11/05/2018 15:50	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	109		7.60	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dichloropropane	U		9.50	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,1-Dichloropropene	U		6.40	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,3-Dichloropropane	U		7.35	50.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		4.88	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		11.1	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		514	10000	2000	11/05/2018 15:50	<a href="#">WG191566</a>
2,2-Dichloropropane	U		4.64	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Di-isopropyl ether	U		4.62	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Ethylbenzene	U		7.90	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		7.85	50.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
2-Hexanone	U		37.8	250	50	10/29/2018 18:21	<a href="#">WG188131</a>
n-Hexane	U		15.2	250	50	10/29/2018 18:21	<a href="#">WG188131</a>
Iodomethane	U		18.8	500	50	10/29/2018 18:21	<a href="#">WG188131</a>
Isopropylbenzene	U		6.30	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
p-Isopropyltoluene	U		6.90	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
2-Butanone (MEK)	213	<u>J JO</u>	64.0	250	50	10/29/2018 18:21	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		53.5	125	50	10/29/2018 18:21	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		41.2	250	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		5.10	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	8.70	125	50	10/29/2018 18:21	<a href="#">WG1188131</a>
n-Propylbenzene	U		8.10	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Styrene	U		5.85	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		6.00	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		6.50	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		8.20	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Tetrachloroethene	1960		9.95	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Toluene	U		20.6	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	8.20	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		17.8	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		4.70	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		9.30	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Trichloroethene	3150		7.65	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		6.50	125	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		12.4	125	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		6.15	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		3.70	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		6.20	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Vinyl acetate	U		32.2	250	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Vinyl chloride	4510		5.90	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Xylenes, Total	U		15.8	75.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
(S) Toluene-d8	102			80.0-120		10/29/2018 18:21	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		11/05/2018 15:50	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	91.7			75.0-120		10/29/2018 18:21	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	91.4			75.0-120		11/05/2018 15:50	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		10/29/2018 18:21	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	87.7			77.0-126		11/05/2018 15:50	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1038864-03 WG1188131, WG1191566: Not all compounds reportable at lower dilution.  
 L1038864-03 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	99.4	<u>B</u> <u>J</u>	31.6	100	1	10/31/2018 20:48	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	92.4			78.0-120		10/31/2018 20:48	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	107	<u>JO</u>	1.05	25.0	1	10/29/2018 18:40	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 18:40	<a href="#">WG188131</a>
Benzene	0.167	<u>J</u>	0.0896	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 18:40	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Carbon disulfide	9.13		0.101	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 18:40	<a href="#">WG188131</a>
Chloroform	1.02		0.0860	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 14:31	<a href="#">WG191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 14:31	<a href="#">WG191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	5.80		0.0933	0.500	1	11/05/2018 14:31	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	0.346	<u>J</u>	0.152	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 18:40	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 14:31	<a href="#">WG191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 18:40	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 18:40	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 18:40	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 18:40	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 18:40	<a href="#">WG188131</a>
2-Butanone (MEK)	31.7	<u>JO</u>	1.28	5.00	1	10/29/2018 18:40	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Tetrachloroethene	2.28		0.199	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Trichloroethene	1.38		0.153	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Vinyl chloride	7.70		0.118	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 18:40	<a href="#">WG1188131</a>
(S) Toluene-d8	105			80.0-120		11/05/2018 14:31	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	92.1			75.0-120		10/29/2018 18:40	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.7			75.0-120		11/05/2018 14:31	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	99.4			77.0-126		10/29/2018 18:40	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	86.2			77.0-126		11/05/2018 14:31	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/25/18 14:47

L1038864

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	57.6	<u>B</u> <u>J</u>	31.6	100	1	10/31/2018 21:11	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	92.7			78.0-120		10/31/2018 21:11	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	6.30	<u>J</u> <u>JO</u>	1.05	25.0	1	10/29/2018 19:00	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 19:00	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 19:00	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Carbon disulfide	0.152	<u>J</u>	0.101	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 19:00	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 14:51	<a href="#">WG191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 14:51	<a href="#">WG191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	1.65	<u>B</u>	0.0933	0.500	1	11/05/2018 14:51	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 19:00	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 14:51	<a href="#">WG191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 19:00	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 19:00	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 19:00	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 19:00	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 19:00	<a href="#">WG188131</a>
2-Butanone (MEK)	2.26	<u>J</u> <u>JO</u>	1.28	5.00	1	10/29/2018 19:00	<a href="#">WG188131</a>



Collected date/time: 10/25/18 14:47

L1038864

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Tetrachloroethene	0.895		0.199	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Trichloroethene	0.347	<u>J</u>	0.153	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Vinyl chloride	1.83		0.118	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
(S) Toluene-d8	102			80.0-120		10/29/2018 19:00	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 14:51	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	92.2			75.0-120		10/29/2018 19:00	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.1			75.0-120		11/05/2018 14:51	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	95.9			77.0-126		10/29/2018 19:00	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	85.9			77.0-126		11/05/2018 14:51	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	47.4	<u>B</u> <u>J</u>	31.6	100	1	10/31/2018 21:33	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	92.9			78.0-120		10/31/2018 21:33	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.08	<u>J</u> <u>JO</u>	1.05	25.0	1	10/29/2018 19:19	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 19:19	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 19:19	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Carbon disulfide	0.156	<u>J</u>	0.101	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 19:19	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 15:10	<a href="#">WG191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 15:10	<a href="#">WG191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	0.454	<u>B</u> <u>J</u>	0.0933	0.500	1	11/05/2018 15:10	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 19:19	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 15:10	<a href="#">WG191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 19:19	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 19:19	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 19:19	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 19:19	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 19:19	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 19:19	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Tetrachloroethene	1.29		0.199	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Trichloroethene	0.282	<u>J</u>	0.153	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Vinyl chloride	U		0.118	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
(S) Toluene-d8	99.4			80.0-120		10/29/2018 19:19	<a href="#">WG1188131</a>
(S) Toluene-d8	108			80.0-120		11/05/2018 15:10	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	93.4			75.0-120		10/29/2018 19:19	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.6			75.0-120		11/05/2018 15:10	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	97.9			77.0-126		10/29/2018 19:19	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	82.0			77.0-126		11/05/2018 15:10	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	48.3	<u>B</u> <u>J</u>	31.6	100	1	10/31/2018 21:56	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	93.0			78.0-120		10/31/2018 21:56	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>JO</u>	1.05	25.0	1	10/29/2018 19:38	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 19:38	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 19:38	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Carbon disulfide	U		0.101	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 19:38	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 15:30	<a href="#">WG191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 15:30	<a href="#">WG191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	12.1		0.0933	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	0.254	<u>J</u>	0.152	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 19:38	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 15:30	<a href="#">WG191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 19:38	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 19:38	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 19:38	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 19:38	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 19:38	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 19:38	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Tetrachloroethene	3.53		0.199	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Trichloroethene	0.750		0.153	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Vinyl chloride	158		0.118	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
(S) Toluene-d8	101			80.0-120		10/29/2018 19:38	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		11/05/2018 15:30	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	94.0			75.0-120		10/29/2018 19:38	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.5			75.0-120		11/05/2018 15:30	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	97.7			77.0-126		10/29/2018 19:38	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	87.5			77.0-126		11/05/2018 15:30	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	31800		632	2000	20	10/31/2018 22:19	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	93.4			78.0-120		10/31/2018 22:19	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>JO</u>	26.2	625	25	10/29/2018 19:57	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	21.8	125	25	10/29/2018 19:57	<a href="#">WG188131</a>
Benzene	U		2.24	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromobenzene	U		3.32	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromodichloromethane	U		2.00	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromochloromethane	U		3.62	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromoform	U		4.65	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	3.92	62.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	3.58	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
sec-Butylbenzene	U		3.35	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
tert-Butylbenzene	U		4.58	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Carbon disulfide	U		2.52	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Carbon tetrachloride	U		3.98	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chlorobenzene	U		3.50	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chlorodibromomethane	U		3.20	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	3.52	62.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chloroform	U		2.15	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chloromethane	U		153	1250	1000	11/05/2018 16:10	<a href="#">WG191566</a>
2-Chlorotoluene	U		2.78	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
4-Chlorotoluene	U		2.43	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	8.12	62.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dibromoethane	U		4.82	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Dibromomethane	U		2.92	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		2.52	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		3.25	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		3.02	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		127	2500	1000	11/05/2018 16:10	<a href="#">WG191566</a>
1,1-Dichloroethane	U		2.85	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	2.70	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,1-Dichloroethene	167		4.70	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	40400		93.3	500	1000	11/05/2018 16:10	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	54.4		3.80	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dichloropropane	U		4.75	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,1-Dichloropropene	U		3.20	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,3-Dichloropropane	U		3.68	25.0	25	10/29/2018 19:57	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		2.44	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		5.55	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		257	5000	1000	11/05/2018 16:10	<a href="#">WG191566</a>
2,2-Dichloropropane	U		2.32	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Di-isopropyl ether	U		2.31	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Ethylbenzene	U		3.95	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		3.92	25.0	25	10/29/2018 19:57	<a href="#">WG188131</a>
2-Hexanone	U		18.9	125	25	10/29/2018 19:57	<a href="#">WG188131</a>
n-Hexane	U		7.62	125	25	10/29/2018 19:57	<a href="#">WG188131</a>
Iodomethane	U		9.42	250	25	10/29/2018 19:57	<a href="#">WG188131</a>
Isopropylbenzene	U		3.15	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
p-Isopropyltoluene	U		3.45	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	32.0	125	25	10/29/2018 19:57	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		26.8	62.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		20.6	125	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		2.55	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	4.35	62.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
n-Propylbenzene	U		4.05	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Styrene	U		2.92	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		3.00	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		3.25	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		4.10	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Tetrachloroethene	45900		199	500	1000	11/05/2018 16:10	<a href="#">WG1191566</a>
Toluene	U		10.3	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	4.10	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		8.88	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		2.35	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		4.65	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Trichloroethene	8330		30.6	100	200	11/05/2018 18:09	<a href="#">WG1191566</a>
Trichlorofluoromethane	U		3.25	62.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		6.18	62.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		3.08	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		1.85	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		3.10	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Vinyl acetate	U		16.1	125	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Vinyl chloride	1170		2.95	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Xylenes, Total	U		7.90	37.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
(S) Toluene-d8	104			80.0-120		10/29/2018 19:57	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 18:09	<a href="#">WG1191566</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 16:10	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	92.4			75.0-120		10/29/2018 19:57	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	92.1			75.0-120		11/05/2018 16:10	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	90.8			75.0-120		11/05/2018 18:09	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		10/29/2018 19:57	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	83.3			77.0-126		11/05/2018 18:09	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	85.6			77.0-126		11/05/2018 16:10	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1038864-08 WG1188131, WG1191566: Not all compounds reportable at lower dilution.

L1038864-08 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	14600		158	500	5	10/31/2018 22:42	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	94.3			78.0-120		10/31/2018 22:42	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	9.83	<u>J JO</u>	1.05	25.0	1	10/29/2018 20:17	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
Benzene	0.413	<u>J</u>	0.0896	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 20:17	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Carbon disulfide	1.76		0.101	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chloroform	0.591		0.0860	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chloromethane	U		76.5	625	500	11/05/2018 16:30	<a href="#">WG191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		63.5	1250	500	11/05/2018 16:30	<a href="#">WG191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,1-Dichloroethene	61.9		0.188	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	17700		46.6	250	500	11/05/2018 16:30	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	49.7		0.152	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		128	2500	500	11/05/2018 16:30	<a href="#">WG191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Ethylbenzene	0.226	<u>J</u>	0.158	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 20:17	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
2-Butanone (MEK)	3.56	<u>J JO</u>	1.28	5.00	1	10/29/2018 20:17	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Naphthalene	0.209	JJO	0.174	2.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Tetrachloroethene	15200		99.5	250	500	11/05/2018 16:30	<a href="#">WG1191566</a>
Toluene	2.53		0.412	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	JO	0.164	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Trichloroethene	8800		76.5	250	500	11/05/2018 16:30	<a href="#">WG1191566</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	0.576		0.123	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	0.317	L	0.0739	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	0.162	L	0.124	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Vinyl chloride	1430		59.0	250	500	11/05/2018 16:30	<a href="#">WG1191566</a>
Xylenes, Total	1.13	L	0.316	1.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
(S) Toluene-d8	104			80.0-120		10/29/2018 20:17	<a href="#">WG1188131</a>
(S) Toluene-d8	107			80.0-120		11/05/2018 16:30	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	92.0			75.0-120		10/29/2018 20:17	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.4			75.0-120		11/05/2018 16:30	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	98.8			77.0-126		10/29/2018 20:17	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	84.2			77.0-126		11/05/2018 16:30	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1038864-09 WG1188131, WG1191566: Not all compounds reportable at lower dilution.

L1038864-09 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	4570		31.6	100	1	10/31/2018 23:04	<a href="#">WG1189237</a>
(S) a,a,a-Trifluorotoluene(FID)	95.2			78.0-120		10/31/2018 23:04	<a href="#">WG1189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.71	<u>J JO</u>	1.05	25.0	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Benzene	U		0.0896	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Carbon disulfide	0.181	<u>J</u>	0.101	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chloroethane	14.2	<u>JO</u>	0.141	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chloroform	0.395	<u>J</u>	0.0860	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chloromethane	U		30.6	250	200	11/05/2018 16:50	<a href="#">WG1191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Dichlorodifluoromethane	U		25.4	500	200	11/05/2018 16:50	<a href="#">WG1191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1-Dichloroethene	25.7		0.188	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
cis-1,2-Dichloroethene	3320		18.7	100	200	11/05/2018 16:50	<a href="#">WG1191566</a>
trans-1,2-Dichloroethene	15.3		0.152	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
trans-1,4-Dichloro-2-butene	U		51.4	1000	200	11/05/2018 16:50	<a href="#">WG1191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Tetrachloroethene	6100		39.8	100	200	11/05/2018 16:50	<a href="#">WG1191566</a>
Toluene	U		0.412	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Trichloroethene	2720		30.6	100	200	11/05/2018 16:50	<a href="#">WG1191566</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	0.139	<u>J</u>	0.123	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Vinyl chloride	100		0.118	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 20:36	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 16:50	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	90.4			75.0-120		10/29/2018 20:36	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.8			75.0-120		11/05/2018 16:50	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	98.5			77.0-126		10/29/2018 20:36	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	86.6			77.0-126		11/05/2018 16:50	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1038864-10 WG1188131, WG1191566: Not all compounds reportable at lower dilution.  
 L1038864-10 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.



Method Blank (MB)

(MB) R3356478-3 10/31/18 15:19

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	42.3	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	92.2			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356478-1 10/31/18 14:03 • (LCSD) R3356478-2 10/31/18 14:33

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	4880	4990	88.8	90.7	70.0-124			2.18	20
(S) a,a,a-Trifluorotoluene(FID)				96.9	97.0	78.0-120				

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3357429-3 11/06/18 12:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	0.165	U	0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	0.215	U	0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3357429-3 11/06/18 12:14

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.178	U	0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	0.209	U	0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	97.9			80.0-120
(S) Dibromofluoromethane	112			75.0-120
(S) 4-Bromofluorobenzene	100			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357429-1 11/06/18 10:24 • (LCSD) R3357429-2 11/06/18 10:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	179	168	143	134	19.0-160			6.23	27
Acrylonitrile	125	146	153	117	122	55.0-149			4.68	20
Benzene	25.0	24.6	25.5	98.5	102	70.0-123			3.29	20
Bromobenzene	25.0	24.3	26.5	97.3	106	73.0-121			8.51	20
Bromodichloromethane	25.0	27.0	28.4	108	114	75.0-120			5.10	20
Bromochloromethane	25.0	24.3	25.8	97.2	103	76.0-122			6.10	20
Bromoform	25.0	25.8	28.0	103	112	68.0-132			8.28	20
Bromomethane	25.0	22.4	24.1	89.5	96.3	10.0-160			7.33	25
n-Butylbenzene	25.0	24.3	26.7	97.2	107	73.0-125			9.25	20
sec-Butylbenzene	25.0	24.1	26.0	96.6	104	75.0-125			7.23	20
tert-Butylbenzene	25.0	23.9	25.9	95.5	104	76.0-124			8.24	20
Carbon disulfide	25.0	21.9	22.8	87.5	91.2	61.0-128			4.07	20
Carbon tetrachloride	25.0	27.3	27.9	109	112	68.0-126			1.97	20
Chlorobenzene	25.0	22.4	23.9	89.5	95.4	80.0-121			6.45	20
Chlorodibromomethane	25.0	24.9	26.4	99.4	105	77.0-125			5.86	20
Chloroethane	25.0	25.6	26.2	102	105	47.0-150			2.46	20
Chloroform	25.0	26.4	27.6	105	110	73.0-120			4.54	20
Chloromethane	25.0	29.0	29.5	116	118	41.0-142			1.98	20
2-Chlorotoluene	25.0	24.7	26.4	98.9	106	76.0-123			6.55	20
4-Chlorotoluene	25.0	24.7	26.6	98.9	106	75.0-122			7.17	20
1,2-Dibromo-3-Chloropropane	25.0	22.9	25.7	91.4	103	58.0-134			11.6	20
1,2-Dibromoethane	25.0	22.6	24.1	90.3	96.3	80.0-122			6.41	20
Dibromomethane	25.0	26.0	27.0	104	108	80.0-120			3.88	20
1,2-Dichlorobenzene	25.0	22.6	24.9	90.3	99.5	79.0-121			9.63	20
1,3-Dichlorobenzene	25.0	22.8	24.6	91.1	98.5	79.0-120			7.77	20
1,4-Dichlorobenzene	25.0	22.2	24.3	88.6	97.0	79.0-120			9.07	20
Dichlorodifluoromethane	25.0	27.8	29.1	111	116	51.0-149			4.64	20
1,1-Dichloroethane	25.0	26.9	28.1	108	112	70.0-126			4.24	20
1,2-Dichloroethane	25.0	30.1	31.3	120	125	70.0-128			3.92	20
1,1-Dichloroethene	25.0	23.7	24.6	95.0	98.5	71.0-124			3.71	20
cis-1,2-Dichloroethene	25.0	23.9	24.8	95.5	99.1	73.0-120			3.63	20
trans-1,2-Dichloroethene	25.0	25.0	26.3	100	105	73.0-120			5.16	20
1,2-Dichloropropane	25.0	24.4	25.3	97.7	101	77.0-125			3.38	20
1,1-Dichloropropene	25.0	25.7	27.2	103	109	74.0-126			5.70	20
1,3-Dichloropropane	25.0	22.6	24.3	90.4	97.1	80.0-120			7.18	20
cis-1,3-Dichloropropene	25.0	22.9	24.2	91.7	96.8	80.0-123			5.35	20
trans-1,3-Dichloropropene	25.0	23.6	24.9	94.3	99.5	78.0-124			5.35	20
trans-1,4-Dichloro-2-butene	25.0	30.4	31.1	122	124	33.0-144			2.27	20
2,2-Dichloropropane	25.0	25.2	27.1	101	108	58.0-130			7.37	20
Di-isopropyl ether	25.0	29.5	30.5	118	122	58.0-138			3.31	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357429-1 11/06/18 10:24 • (LCSD) R3357429-2 11/06/18 10:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	22.5	23.8	89.9	95.3	79.0-123			5.81	20
Hexachloro-1,3-butadiene	25.0	21.9	25.0	87.4	99.9	54.0-138			13.3	20
2-Hexanone	125	127	134	101	107	67.0-149			5.23	20
n-Hexane	25.0	25.3	25.5	101	102	57.0-133			0.790	20
Iodomethane	125	124	129	99.1	103	33.0-147			3.69	26
Isopropylbenzene	25.0	24.3	26.5	97.3	106	76.0-127			8.57	20
p-Isopropyltoluene	25.0	24.1	26.2	96.5	105	76.0-125			8.36	20
2-Butanone (MEK)	125	157	160	125	128	44.0-160			2.32	20
Methylene Chloride	25.0	23.4	24.5	93.6	98.0	67.0-120			4.53	20
4-Methyl-2-pentanone (MIBK)	125	145	152	116	122	68.0-142			4.71	20
Methyl tert-butyl ether	25.0	26.6	27.2	106	109	68.0-125			2.09	20
Naphthalene	25.0	22.0	24.5	88.1	98.0	54.0-135			10.6	20
n-Propylbenzene	25.0	24.3	26.2	97.1	105	77.0-124			7.56	20
Styrene	25.0	24.3	26.5	97.1	106	73.0-130			8.68	20
1,1,1,2-Tetrachloroethane	25.0	24.5	25.9	98.0	104	75.0-125			5.63	20
1,1,2,2-Tetrachloroethane	25.0	23.1	25.2	92.5	101	65.0-130			8.52	20
1,1,2-Trichlorotrifluoroethane	25.0	24.6	25.3	98.5	101	69.0-132			2.88	20
Tetrachloroethene	25.0	20.5	22.0	82.0	88.2	72.0-132			7.20	20
Toluene	25.0	22.1	23.3	88.2	93.2	79.0-120			5.49	20
1,2,3-Trichlorobenzene	25.0	22.8	25.6	91.4	102	50.0-138			11.2	20
1,2,4-Trichlorobenzene	25.0	23.5	25.7	93.9	103	57.0-137			9.02	20
1,1,1-Trichloroethane	25.0	28.8	29.8	115	119	73.0-124			3.36	20
1,1,2-Trichloroethane	25.0	22.5	23.5	89.9	93.9	80.0-120			4.39	20
Trichlorofluoromethane	25.0	31.2	32.5	125	130	59.0-147			4.10	20
1,2,3-Trichloropropane	25.0	26.2	28.4	105	113	73.0-130			8.01	20
1,2,4-Trimethylbenzene	25.0	24.8	26.6	99.1	106	76.0-121			7.16	20
1,2,3-Trimethylbenzene	25.0	24.4	26.6	97.5	106	77.0-120			8.68	20
1,3,5-Trimethylbenzene	25.0	25.3	27.2	101	109	76.0-122			7.27	20
Vinyl acetate	125	93.4	105	74.8	83.9	11.0-160			11.5	20
Vinyl chloride	25.0	26.5	27.4	106	110	67.0-131			3.52	20
Xylenes, Total	75.0	67.4	71.2	89.9	94.9	79.0-123			5.48	20
(S) Toluene-d8				95.5	96.2	80.0-120				
(S) Dibromofluoromethane				112	110	75.0-120				
(S) 4-Bromofluorobenzene				101	104	77.0-126				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3356910-4 10/29/18 16:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3356910-4 10/29/18 16:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	103			80.0-120
(S) Dibromofluoromethane	92.3			75.0-120
(S) 4-Bromofluorobenzene	97.5			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356910-1 10/29/18 14:45 • (LCSD) R3356910-2 10/29/18 15:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	82.1	80.1	65.7	64.1	19.0-160			2.39	27
Acrylonitrile	125	97.5	96.6	78.0	77.3	55.0-149			0.905	20
Benzene	25.0	22.6	22.3	90.6	89.0	70.0-123			1.70	20
Bromobenzene	25.0	22.6	24.6	90.4	98.4	73.0-121			8.48	20
Bromodichloromethane	25.0	22.4	22.4	89.6	89.5	75.0-120			0.0545	20
Bromochloromethane	25.0	24.3	24.0	97.0	96.0	76.0-122			1.12	20
Bromoform	25.0	26.0	28.8	104	115	68.0-132			10.2	20
Bromomethane	25.0	18.1	21.0	72.5	84.2	10.0-160			14.9	25
n-Butylbenzene	25.0	18.8	20.2	75.2	80.6	73.0-125			6.96	20
sec-Butylbenzene	25.0	21.6	23.6	86.4	94.6	75.0-125			9.00	20
tert-Butylbenzene	25.0	23.0	25.3	91.9	101	76.0-124			9.43	20
Carbon disulfide	25.0	23.7	22.3	95.0	89.3	61.0-128			6.10	20
Carbon tetrachloride	25.0	22.5	22.1	90.0	88.2	68.0-126			1.99	20
Chlorobenzene	25.0	26.1	25.8	104	103	80.0-121			1.01	20
Chlorodibromomethane	25.0	26.1	25.9	104	104	77.0-125			0.649	20
Chloroethane	25.0	19.8	20.4	79.0	81.6	47.0-150			3.18	20
Chloroform	25.0	22.4	22.1	89.8	88.4	73.0-120			1.57	20
2-Chlorotoluene	25.0	23.4	25.4	93.8	102	76.0-123			8.19	20
4-Chlorotoluene	25.0	23.1	25.0	92.4	100	75.0-122			8.07	20
1,2-Dibromo-3-Chloropropane	25.0	19.1	21.9	76.5	87.5	58.0-134			13.4	20
1,2-Dibromoethane	25.0	24.8	24.8	99.2	99.1	80.0-122			0.0468	20
Dibromomethane	25.0	23.0	23.1	92.0	92.5	80.0-120			0.523	20
1,2-Dichlorobenzene	25.0	21.6	23.2	86.2	92.8	79.0-121			7.34	20
1,3-Dichlorobenzene	25.0	22.9	24.6	91.6	98.3	79.0-120			7.06	20
1,4-Dichlorobenzene	25.0	22.2	24.3	88.7	97.4	79.0-120			9.36	20
1,1-Dichloroethane	25.0	21.8	21.4	87.3	85.5	70.0-126			2.04	20
1,2-Dichloroethane	25.0	19.7	19.7	78.9	78.7	70.0-128			0.233	20
1,1-Dichloroethene	25.0	25.0	23.7	100	94.9	71.0-124			5.29	20
cis-1,2-Dichloroethene	25.0	24.1	23.5	96.4	93.8	73.0-120			2.71	20
trans-1,2-Dichloroethene	25.0	23.4	23.0	93.7	92.2	73.0-120			1.63	20
1,2-Dichloropropane	25.0	23.2	23.0	92.8	91.9	77.0-125			0.997	20
1,1-Dichloropropene	25.0	22.3	21.7	89.2	87.0	74.0-126			2.54	20
1,3-Dichloropropane	25.0	24.2	23.7	96.7	94.8	80.0-120			2.03	20
cis-1,3-Dichloropropene	25.0	24.7	24.4	98.8	97.8	80.0-123			1.06	20
trans-1,3-Dichloropropene	25.0	24.4	24.1	97.7	96.6	78.0-124			1.11	20
2,2-Dichloropropane	25.0	21.9	21.3	87.7	85.4	58.0-130			2.69	20
Di-isopropyl ether	25.0	20.5	20.3	82.1	81.0	58.0-138			1.33	20
Ethylbenzene	25.0	25.8	25.5	103	102	79.0-123			1.18	20
Hexachloro-1,3-butadiene	25.0	20.1	23.3	80.4	93.1	54.0-138			14.6	20
2-Hexanone	125	108	108	86.2	86.2	67.0-149			0.0374	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356910-1 10/29/18 14:45 • (LCSD) R3356910-2 10/29/18 15:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Hexane	25.0	20.7	20.3	82.8	81.3	57.0-133			1.85	20
Iodomethane	125	132	125	105	100	33.0-147			5.12	26
Isopropylbenzene	25.0	23.7	25.6	94.7	103	76.0-127			7.88	20
p-Isopropyltoluene	25.0	21.8	23.8	87.1	95.2	76.0-125			8.88	20
2-Butanone (MEK)	125	87.6	86.1	70.1	68.8	44.0-160			1.73	20
Methylene Chloride	25.0	23.2	22.5	92.7	90.1	67.0-120			2.84	20
4-Methyl-2-pentanone (MIBK)	125	100	101	80.3	80.6	68.0-142			0.367	20
Methyl tert-butyl ether	25.0	21.5	20.8	86.1	83.1	68.0-125			3.61	20
Naphthalene	25.0	18.1	19.9	72.3	79.6	54.0-135			9.62	20
n-Propylbenzene	25.0	22.7	24.9	90.9	99.5	77.0-124			9.05	20
Styrene	25.0	24.8	26.8	99.2	107	73.0-130			7.52	20
1,1,1,2-Tetrachloroethane	25.0	27.0	26.9	108	108	75.0-125			0.528	20
1,1,2,2-Tetrachloroethane	25.0	23.7	26.1	94.9	104	65.0-130			9.48	20
1,1,2-Trichlorotrifluoroethane	25.0	24.3	25.4	97.3	102	69.0-132			4.29	20
Tetrachloroethene	25.0	26.8	26.5	107	106	72.0-132			0.926	20
Toluene	25.0	24.8	24.4	99.4	97.5	79.0-120			1.94	20
1,2,3-Trichlorobenzene	25.0	19.4	21.7	77.4	86.8	50.0-138			11.5	20
1,2,4-Trichlorobenzene	25.0	20.0	22.1	80.1	88.3	57.0-137			9.74	20
1,1,1-Trichloroethane	25.0	23.0	22.4	92.0	89.5	73.0-124			2.77	20
1,1,2-Trichloroethane	25.0	25.0	25.0	100	100	80.0-120			0.0538	20
Trichloroethene	25.0	25.2	25.1	101	100	78.0-124			0.315	20
Trichlorofluoromethane	25.0	21.2	21.4	85.0	85.5	59.0-147			0.621	20
1,2,3-Trichloropropane	25.0	24.0	25.5	95.9	102	73.0-130			6.34	20
1,2,4-Trimethylbenzene	25.0	22.6	24.7	90.5	98.8	76.0-121			8.73	20
1,2,3-Trimethylbenzene	25.0	21.4	23.0	85.5	92.2	77.0-120			7.48	20
1,3,5-Trimethylbenzene	25.0	23.7	25.8	94.8	103	76.0-122			8.43	20
Vinyl acetate	125	128	129	103	103	11.0-160			0.600	20
Vinyl chloride	25.0	20.7	20.9	82.8	83.8	67.0-131			1.10	20
Xylenes, Total	75.0	76.3	75.1	102	100	79.0-123			1.59	20
(S) Toluene-d8				101	100	80.0-120				
(S) Dibromofluoromethane				91.5	90.1	75.0-120				
(S) 4-Bromofluorobenzene				93.2	97.5	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3357085-5 11/05/18 10:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloromethane	U		0.153	1.25
Dichlorodifluoromethane	U		0.127	2.50
cis-1,2-Dichloroethene	0.203	↓	0.0933	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
Tetrachloroethene	U		0.199	0.500
Trichloroethene	0.985		0.153	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	106			80.0-120
(S) Dibromofluoromethane	91.1			75.0-120
(S) 4-Bromofluorobenzene	87.9			77.0-126

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357085-1 11/05/18 09:16 • (LCSD) R3357085-2 11/05/18 09:36

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Chloromethane	25.0	20.3	20.8	81.0	83.4	41.0-142			2.87	20
Dichlorodifluoromethane	25.0	26.6	26.8	106	107	51.0-149			0.717	20
cis-1,2-Dichloroethene	25.0	25.4	24.4	102	97.5	73.0-120			4.07	20
trans-1,4-Dichloro-2-butene	25.0	20.1	21.1	80.3	84.5	33.0-144			5.12	20
Tetrachloroethene	25.0	27.7	28.4	111	114	72.0-132			2.39	20
Trichloroethene	25.0	28.1	29.0	113	116	78.0-124			2.98	20
Vinyl chloride	25.0	26.0	26.4	104	106	67.0-131			1.57	20
(S) Toluene-d8				103	103	80.0-120				
(S) Dibromofluoromethane				88.5	88.5	75.0-120				
(S) 4-Bromofluorobenzene				82.7	82.9	77.0-126				



Method Blank (MB)

(MB) R3357448-3 11/06/18 11:11

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Trichloroethene	U		0.153	0.500
(S) Toluene-d8	104			80.0-120
(S) Dibromofluoromethane	101			75.0-120
(S) 4-Bromofluorobenzene	98.2			77.0-126

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357448-1 11/06/18 10:15 • (LCSD) R3357448-2 11/06/18 10:34

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Trichloroethene	25.0	23.0	22.5	91.8	90.1	78.0-124			1.91	20
(S) Toluene-d8				101	103	80.0-120				
(S) Dibromofluoromethane				100	93.7	75.0-120				
(S) 4-Bromofluorobenzene				102	104	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

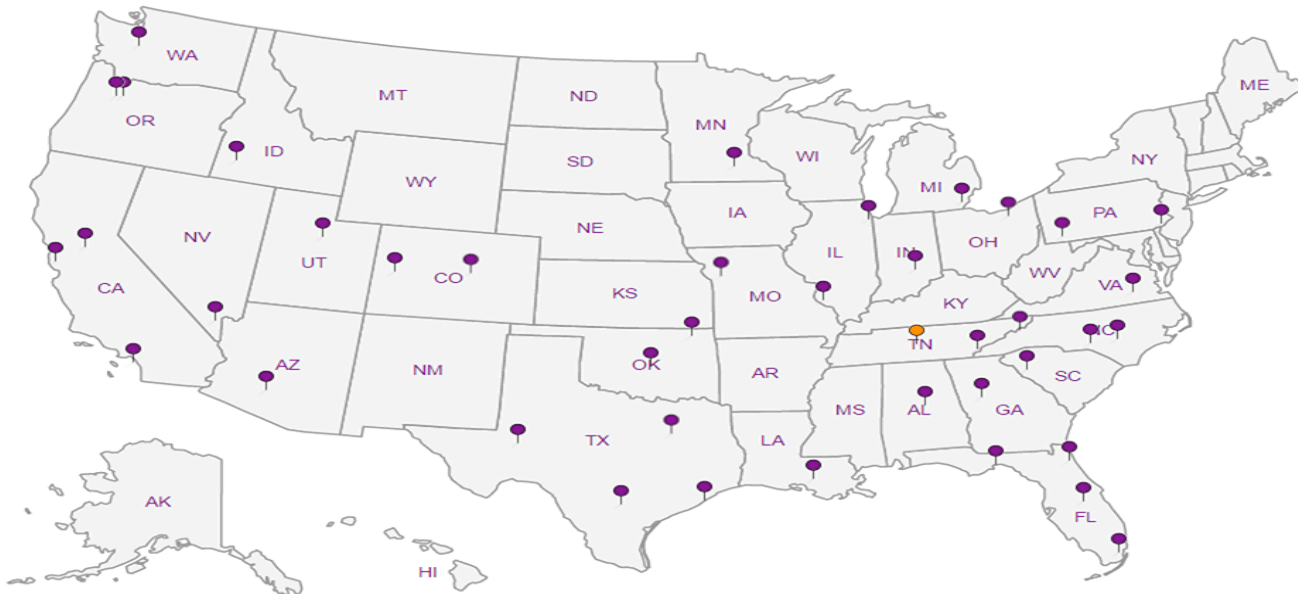
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page      of     



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
**Bill Haldeman**

Email To: [bhaldeman@pesenv.com](mailto:bhaldeman@pesenv.com)

Project Description: **American Linen**

City/State Collected:

Phone: **206-529-3980**  
Fax: **206-529-3985**

Client Project #  
**1413.001.05.601**

Lab Project #  
**PESENVSWA-HALDEMAN**

Collected by (print):  
**R. McLaughlin**

Site/Facility ID #

P.O. #

Collected by (signature):  
*[Signature]*

**Rush?** (Lab MUST Be Notified)

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N  Y

No. of  
Cnts

V8260C 40ml/Amb-HCl

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cnts	
MW-300-102618	Grab	GW	7.5	10/26/18	1300	3	X
MW-MW-02-102618		GW	7.5		1200	3	X
MW-152-102618		GW	5.5	X	807	3	X
MW-151-102518		GW	4.0	10/25/18	1617	3	X
MW-131-102518		GW	4.9		1447	3	X
MW-139-102518		GW	7.5		1357	3	X
MW-132-102518		GW	7.5		1307	3	X
MW-135-102518		GW	7.5'		1212	3	X
MW-150-102518		GW	5.4		1112	3	X
MW-149-102518	X	GW	37.5'	X	1028	3	X

L# **4038864**  
**D162**

Acctnum: **PESENVSWA**

Template: **T141146**

Prelogin: **P673966**

TSR: **110 - Brian Ford**

PB:

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

-01  
-02  
-03  
-04  
-05  
-06  
-07  
-08  
-09  
-10

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

**RAD SCREEN: <0.5 mP/hr**

pH      Temp     

Flow      Other     

Samples returned via:  
 UPS  FedEx  Courier

Tracking #

Sample Receipt Checklist	
DOC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
DOC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
IF Applicable	
VOA Zero Headpace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature) <i>[Signature]</i>	Date: <b>10/26/18</b>	Time: <b>1400</b>
Relinquished by: (Signature) <i>[Signature]</i>	Date: <b>10/26/18</b>	Time: <b>1600</b>
Relinquished by: (Signature)	Date:	Time:

Received by: (Signature) <i>[Signature]</i>	Trip Blank Received: <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No
Received by: (Signature)	Temp: <u>    </u> °C Bottles Received: <b>27</b>
Received for lab by: (Signature) <i>[Signature]</i>	Date: <b>10/27</b> Time: <b>8:45</b>

If preservation required by Login: Date/Time  
**+TTB**

Hold:      Condition: **NCF / OK**



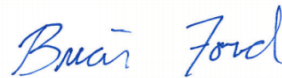
November 06, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1038867  
Samples Received: 10/27/2018  
Project Number: 1413.001.05.601  
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
MW-134-102518 L1038867-01	<b>5</b>	
MW-141-102518 L1038867-02	<b>7</b>	<b>4</b> Cn
MW-104-102618 L1038867-03	<b>9</b>	<b>5</b> Sr
MW-133-102618 L1038867-04	<b>11</b>	
MW-137-102618 L1038867-05	<b>13</b>	<b>6</b> Qc
RINSATE L1038867-06	<b>15</b>	
<b>Qc: Quality Control Summary</b>	<b>17</b>	<b>7</b> Gl
Volatile Organic Compounds (GC) by Method NWTPHGX	<b>17</b>	
Volatile Organic Compounds (GC/MS) by Method 8260C	<b>18</b>	<b>8</b> Al
<b>Gl: Glossary of Terms</b>	<b>24</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>25</b>	<b>9</b> Sc
<b>Sc: Sample Chain of Custody</b>	<b>26</b>	

# SAMPLE SUMMARY



## MW-134-102518 L1038867-01 GW

Collected by  
Ben Hecht  
Collected date/time  
10/25/18 12:00  
Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189621	1	11/01/18 17:54	11/01/18 17:54	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 22:11	10/29/18 22:11	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191602	1	11/05/18 15:29	11/05/18 15:29	JHH

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-141-102518 L1038867-02 GW

Collected by  
Ben Hecht  
Collected date/time  
10/25/18 13:20  
Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189621	1	11/01/18 18:17	11/01/18 18:17	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 22:31	10/29/18 22:31	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191602	1	11/05/18 15:50	11/05/18 15:50	JHH

## MW-104-102618 L1038867-03 GW

Collected by  
Ben Hecht  
Collected date/time  
10/26/18 08:45  
Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189621	1	11/01/18 18:39	11/01/18 18:39	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 22:50	10/29/18 22:50	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191602	1	11/05/18 16:10	11/05/18 16:10	JHH

## MW-133-102618 L1038867-04 GW

Collected by  
Ben Hecht  
Collected date/time  
10/26/18 11:05  
Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189621	1	11/01/18 19:02	11/01/18 19:02	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 23:10	10/29/18 23:10	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191602	1	11/05/18 16:30	11/05/18 16:30	JHH

## MW-137-102618 L1038867-05 GW

Collected by  
Ben Hecht  
Collected date/time  
10/26/18 13:30  
Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189621	1	11/01/18 19:25	11/01/18 19:25	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 23:29	10/29/18 23:29	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191602	1	11/05/18 16:51	11/05/18 16:51	JHH

## RINSATE L1038867-06 GW

Collected by  
Ben Hecht  
Collected date/time  
10/26/18 12:15  
Received date/time  
10/27/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1189621	1	11/01/18 19:47	11/01/18 19:47	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188131	1	10/29/18 23:48	10/29/18 23:48	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1191602	1	11/05/18 17:11	11/05/18 17:11	JHH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	38.2	<u>B</u>	31.6	100	1	11/01/2018 17:54	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			78.0-120		11/01/2018 17:54	<a href="#">WG189621</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>JO</u>	1.05	25.0	1	10/29/2018 22:11	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 22:11	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	11/05/2018 15:29	<a href="#">WG191602</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 22:11	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Carbon disulfide	U		0.101	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 22:11	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 15:29	<a href="#">WG191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 15:29	<a href="#">WG191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	11/05/2018 15:29	<a href="#">WG191602</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 22:11	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 15:29	<a href="#">WG191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	11/05/2018 15:29	<a href="#">WG191602</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 22:11	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 22:11	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 22:11	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 22:11	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 22:11	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 22:11	<a href="#">WG188131</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:11	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	11/05/2018 15:29	<a href="#">WG1191602</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Tetrachloroethene	U		0.199	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
Toluene	U		0.412	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Trichloroethene	U		0.153	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Vinyl chloride	20.9		0.118	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	11/05/2018 15:29	<a href="#">WG1191602</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 22:11	<a href="#">WG1188131</a>
(S) Toluene-d8	105			80.0-120		11/05/2018 15:29	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	90.8			75.0-120		10/29/2018 22:11	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	105			75.0-120		11/05/2018 15:29	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	97.8			77.0-126		10/29/2018 22:11	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	104			77.0-126		11/05/2018 15:29	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/25/18 13:20

L1038867

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/01/2018 18:17	<a href="#">WG1189621</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			78.0-120		11/01/2018 18:17	<a href="#">WG1189621</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>JO</u>	1.05	25.0	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Benzene	U		0.0896	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Carbon disulfide	0.317	<u>J</u>	0.101	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 15:50	<a href="#">WG1191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 15:50	<a href="#">WG1191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
cis-1,2-Dichloroethene	3.10		0.0933	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 15:50	<a href="#">WG1191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/25/18 13:20

L1038867

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	11/05/2018 15:50	<a href="#">WG1191602</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Tetrachloroethene	U		0.199	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
Toluene	U		0.412	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Trichloroethene	U		0.153	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Vinyl chloride	U		0.118	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	11/05/2018 15:50	<a href="#">WG1191602</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 22:31	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 15:50	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	91.9			75.0-120		10/29/2018 22:31	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	103			75.0-120		11/05/2018 15:50	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	95.4			77.0-126		10/29/2018 22:31	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	107			77.0-126		11/05/2018 15:50	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1570		31.6	100	1	11/01/2018 18:39	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	95.4			78.0-120		11/01/2018 18:39	<a href="#">WG189621</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.91	<u>J JO</u>	1.05	25.0	1	10/29/2018 22:50	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	11/05/2018 16:10	<a href="#">WG191602</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 22:50	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Carbon disulfide	0.675		0.101	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 16:10	<a href="#">WG191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 16:10	<a href="#">WG191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,1-Dichloroethene	0.374	<u>J</u>	0.188	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	71.2		0.0933	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	0.257	<u>J</u>	0.152	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 16:10	<a href="#">WG191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 22:50	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 22:50	<a href="#">WG188131</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:50	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	11/05/2018 16:10	<a href="#">WG1191602</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Tetrachloroethene	1.87		0.199	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Toluene	0.618		0.412	0.500	1	11/05/2018 16:10	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Trichloroethene	2.94		0.153	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Vinyl chloride	43.5		0.118	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	11/05/2018 16:10	<a href="#">WG1191602</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 22:50	<a href="#">WG1188131</a>
(S) Toluene-d8	104			80.0-120		11/05/2018 16:10	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	92.2			75.0-120		10/29/2018 22:50	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	106			75.0-120		11/05/2018 16:10	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	95.3			77.0-126		10/29/2018 22:50	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	111			77.0-126		11/05/2018 16:10	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	458		31.6	100	1	11/01/2018 19:02	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			78.0-120		11/01/2018 19:02	<a href="#">WG189621</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.14	<u>J JO</u>	1.05	25.0	1	10/29/2018 23:10	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	11/05/2018 16:30	<a href="#">WG191602</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 23:10	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Carbon disulfide	0.205	<u>J</u>	0.101	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 16:30	<a href="#">WG191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 16:30	<a href="#">WG191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,1-Dichloroethene	0.619		0.188	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	7.94		0.0933	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	0.257	<u>J</u>	0.152	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 16:30	<a href="#">WG191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 23:10	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 23:10	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Naphthalene	0.411	<u>JJO</u>	0.174	2.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Tetrachloroethene	1.92		0.199	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	11/05/2018 16:30	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Trichloroethene	1.63		0.153	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Vinyl chloride	3.43		0.118	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 23:10	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 16:30	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	91.7			75.0-120		10/29/2018 23:10	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	107			75.0-120		11/05/2018 16:30	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	95.7			77.0-126		10/29/2018 23:10	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	108			77.0-126		11/05/2018 16:30	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	86.9	<u>B</u> <u>J</u>	31.6	100	1	11/01/2018 19:25	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	96.8			78.0-120		11/01/2018 19:25	<a href="#">WG189621</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>JO</u>	1.05	25.0	1	10/29/2018 23:29	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 23:29	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	11/05/2018 16:51	<a href="#">WG191602</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 23:29	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Carbon disulfide	0.282	<u>J</u>	0.101	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 23:29	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 16:51	<a href="#">WG191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 16:51	<a href="#">WG191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	0.893		0.0933	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 23:29	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 16:51	<a href="#">WG191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 23:29	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 23:29	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 23:29	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 23:29	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 23:29	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 23:29	<a href="#">WG188131</a>



Collected date/time: 10/26/18 13:30

L1038867

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 23:29	WG1188131
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 23:29	WG1188131
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 23:29	WG1188131
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 23:29	WG1188131
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 23:29	WG1188131
Styrene	U		0.117	0.500	1	10/29/2018 23:29	WG1188131
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 23:29	WG1188131
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 23:29	WG1188131
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 23:29	WG1188131
Tetrachloroethene	0.896		0.199	0.500	1	10/29/2018 23:29	WG1188131
Toluene	U		0.412	0.500	1	11/05/2018 16:51	WG1191602
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 23:29	WG1188131
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 23:29	WG1188131
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 23:29	WG1188131
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 23:29	WG1188131
Trichloroethene	0.463	<u>J</u>	0.153	0.500	1	10/29/2018 23:29	WG1188131
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 23:29	WG1188131
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 23:29	WG1188131
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 23:29	WG1188131
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 23:29	WG1188131
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 23:29	WG1188131
Vinyl acetate	U		0.645	5.00	1	10/29/2018 23:29	WG1188131
Vinyl chloride	U		0.118	0.500	1	10/29/2018 23:29	WG1188131
Xylenes, Total	U		0.316	1.50	1	10/29/2018 23:29	WG1188131
(S) Toluene-d8	103			80.0-120		10/29/2018 23:29	WG1188131
(S) Toluene-d8	107			80.0-120		11/05/2018 16:51	WG1191602
(S) Dibromofluoromethane	91.4			75.0-120		10/29/2018 23:29	WG1188131
(S) Dibromofluoromethane	105			75.0-120		11/05/2018 16:51	WG1191602
(S) 4-Bromofluorobenzene	94.9			77.0-126		10/29/2018 23:29	WG1188131
(S) 4-Bromofluorobenzene	105			77.0-126		11/05/2018 16:51	WG1191602

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/26/18 12:15

L1038867

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	41.5	<u>B</u> <u>J</u>	31.6	100	1	11/01/2018 19:47	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	97.1			78.0-120		11/01/2018 19:47	<a href="#">WG189621</a>

1 Cp

2 Tc

3 Ss

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.86	<u>J</u> <u>JO</u>	1.05	25.0	1	10/29/2018 23:48	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 23:48	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Carbon disulfide	U		0.101	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 17:11	<a href="#">WG191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 17:11	<a href="#">WG191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	0.486	<u>J</u>	0.0933	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 17:11	<a href="#">WG191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 23:48	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 23:48	<a href="#">WG188131</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 10/26/18 12:15

L1038867

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Tetrachloroethene	0.850		0.199	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Toluene	0.527		0.412	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Trichloroethene	0.371	<u>J</u>	0.153	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Vinyl chloride	U		0.118	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 23:48	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		11/05/2018 17:11	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	92.8			75.0-120		10/29/2018 23:48	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	106			75.0-120		11/05/2018 17:11	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	95.6			77.0-126		10/29/2018 23:48	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	105			77.0-126		11/05/2018 17:11	<a href="#">WG1191602</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3356100-3 11/01/18 12:12

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	44.3	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	95.4			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356100-2 11/01/18 11:27 • (LCSD) R3356100-1 11/01/18 10:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	6320	5470	115	99.4	70.0-124			14.4	20
(S) a,a,a-Trifluorotoluene(FID)				102	101	78.0-120				

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3356910-4 10/29/18 16:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3356910-4 10/29/18 16:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	103			80.0-120
(S) Dibromofluoromethane	92.3			75.0-120
(S) 4-Bromofluorobenzene	97.5			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356910-1 10/29/18 14:45 • (LCSD) R3356910-2 10/29/18 15:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	82.1	80.1	65.7	64.1	19.0-160			2.39	27
Acrylonitrile	125	97.5	96.6	78.0	77.3	55.0-149			0.905	20
Benzene	25.0	22.6	22.3	90.6	89.0	70.0-123			1.70	20
Bromobenzene	25.0	22.6	24.6	90.4	98.4	73.0-121			8.48	20
Bromodichloromethane	25.0	22.4	22.4	89.6	89.5	75.0-120			0.0545	20
Bromochloromethane	25.0	24.3	24.0	97.0	96.0	76.0-122			1.12	20
Bromoform	25.0	26.0	28.8	104	115	68.0-132			10.2	20
Bromomethane	25.0	18.1	21.0	72.5	84.2	10.0-160			14.9	25
n-Butylbenzene	25.0	18.8	20.2	75.2	80.6	73.0-125			6.96	20
sec-Butylbenzene	25.0	21.6	23.6	86.4	94.6	75.0-125			9.00	20
tert-Butylbenzene	25.0	23.0	25.3	91.9	101	76.0-124			9.43	20
Carbon disulfide	25.0	23.7	22.3	95.0	89.3	61.0-128			6.10	20
Carbon tetrachloride	25.0	22.5	22.1	90.0	88.2	68.0-126			1.99	20
Chlorobenzene	25.0	26.1	25.8	104	103	80.0-121			1.01	20
Chlorodibromomethane	25.0	26.1	25.9	104	104	77.0-125			0.649	20
Chloroethane	25.0	19.8	20.4	79.0	81.6	47.0-150			3.18	20
Chloroform	25.0	22.4	22.1	89.8	88.4	73.0-120			1.57	20
2-Chlorotoluene	25.0	23.4	25.4	93.8	102	76.0-123			8.19	20
4-Chlorotoluene	25.0	23.1	25.0	92.4	100	75.0-122			8.07	20
1,2-Dibromo-3-Chloropropane	25.0	19.1	21.9	76.5	87.5	58.0-134			13.4	20
1,2-Dibromoethane	25.0	24.8	24.8	99.2	99.1	80.0-122			0.0468	20
Dibromomethane	25.0	23.0	23.1	92.0	92.5	80.0-120			0.523	20
1,2-Dichlorobenzene	25.0	21.6	23.2	86.2	92.8	79.0-121			7.34	20
1,3-Dichlorobenzene	25.0	22.9	24.6	91.6	98.3	79.0-120			7.06	20
1,4-Dichlorobenzene	25.0	22.2	24.3	88.7	97.4	79.0-120			9.36	20
1,1-Dichloroethane	25.0	21.8	21.4	87.3	85.5	70.0-126			2.04	20
1,2-Dichloroethane	25.0	19.7	19.7	78.9	78.7	70.0-128			0.233	20
1,1-Dichloroethene	25.0	25.0	23.7	100	94.9	71.0-124			5.29	20
cis-1,2-Dichloroethene	25.0	24.1	23.5	96.4	93.8	73.0-120			2.71	20
trans-1,2-Dichloroethene	25.0	23.4	23.0	93.7	92.2	73.0-120			1.63	20
1,2-Dichloropropane	25.0	23.2	23.0	92.8	91.9	77.0-125			0.997	20
1,1-Dichloropropene	25.0	22.3	21.7	89.2	87.0	74.0-126			2.54	20
1,3-Dichloropropane	25.0	24.2	23.7	96.7	94.8	80.0-120			2.03	20
cis-1,3-Dichloropropene	25.0	24.7	24.4	98.8	97.8	80.0-123			1.06	20
trans-1,3-Dichloropropene	25.0	24.4	24.1	97.7	96.6	78.0-124			1.11	20
2,2-Dichloropropane	25.0	21.9	21.3	87.7	85.4	58.0-130			2.69	20
Di-isopropyl ether	25.0	20.5	20.3	82.1	81.0	58.0-138			1.33	20
Ethylbenzene	25.0	25.8	25.5	103	102	79.0-123			1.18	20
Hexachloro-1,3-butadiene	25.0	20.1	23.3	80.4	93.1	54.0-138			14.6	20
2-Hexanone	125	108	108	86.2	86.2	67.0-149			0.0374	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356910-1 10/29/18 14:45 • (LCSD) R3356910-2 10/29/18 15:05

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
n-Hexane	25.0	20.7	20.3	82.8	81.3	57.0-133			1.85	20
Iodomethane	125	132	125	105	100	33.0-147			5.12	26
Isopropylbenzene	25.0	23.7	25.6	94.7	103	76.0-127			7.88	20
p-Isopropyltoluene	25.0	21.8	23.8	87.1	95.2	76.0-125			8.88	20
2-Butanone (MEK)	125	87.6	86.1	70.1	68.8	44.0-160			1.73	20
Methylene Chloride	25.0	23.2	22.5	92.7	90.1	67.0-120			2.84	20
4-Methyl-2-pentanone (MIBK)	125	100	101	80.3	80.6	68.0-142			0.367	20
Methyl tert-butyl ether	25.0	21.5	20.8	86.1	83.1	68.0-125			3.61	20
Naphthalene	25.0	18.1	19.9	72.3	79.6	54.0-135			9.62	20
n-Propylbenzene	25.0	22.7	24.9	90.9	99.5	77.0-124			9.05	20
Styrene	25.0	24.8	26.8	99.2	107	73.0-130			7.52	20
1,1,1,2-Tetrachloroethane	25.0	27.0	26.9	108	108	75.0-125			0.528	20
1,1,2,2-Tetrachloroethane	25.0	23.7	26.1	94.9	104	65.0-130			9.48	20
1,1,2-Trichlorotrifluoroethane	25.0	24.3	25.4	97.3	102	69.0-132			4.29	20
Tetrachloroethene	25.0	26.8	26.5	107	106	72.0-132			0.926	20
Toluene	25.0	24.8	24.4	99.4	97.5	79.0-120			1.94	20
1,2,3-Trichlorobenzene	25.0	19.4	21.7	77.4	86.8	50.0-138			11.5	20
1,2,4-Trichlorobenzene	25.0	20.0	22.1	80.1	88.3	57.0-137			9.74	20
1,1,1-Trichloroethane	25.0	23.0	22.4	92.0	89.5	73.0-124			2.77	20
1,1,2-Trichloroethane	25.0	25.0	25.0	100	100	80.0-120			0.0538	20
Trichloroethene	25.0	25.2	25.1	101	100	78.0-124			0.315	20
Trichlorofluoromethane	25.0	21.2	21.4	85.0	85.5	59.0-147			0.621	20
1,2,3-Trichloropropane	25.0	24.0	25.5	95.9	102	73.0-130			6.34	20
1,2,4-Trimethylbenzene	25.0	22.6	24.7	90.5	98.8	76.0-121			8.73	20
1,2,3-Trimethylbenzene	25.0	21.4	23.0	85.5	92.2	77.0-120			7.48	20
1,3,5-Trimethylbenzene	25.0	23.7	25.8	94.8	103	76.0-122			8.43	20
Vinyl acetate	125	128	129	103	103	11.0-160			0.600	20
Vinyl chloride	25.0	20.7	20.9	82.8	83.8	67.0-131			1.10	20
Xylenes, Total	75.0	76.3	75.1	102	100	79.0-123			1.59	20
(S) Toluene-d8				101	100	80.0-120				
(S) Dibromofluoromethane				91.5	90.1	75.0-120				
(S) 4-Bromofluorobenzene				93.2	97.5	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3357068-4 11/05/18 10:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Benzene	U		0.0896	0.500
Chloromethane	U		0.153	1.25
Dichlorodifluoromethane	U		0.127	2.50
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
Ethylbenzene	U		0.158	0.500
Naphthalene	U		0.174	2.50
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
Trichloroethene	U		0.153	0.500
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	107			80.0-120
(S) Dibromofluoromethane	105			75.0-120
(S) 4-Bromofluorobenzene	107			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357068-1 11/05/18 09:32 • (LCSD) R3357068-2 11/05/18 09:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	25.0	23.8	24.4	95.3	97.4	70.0-123			2.25	20
Chloromethane	25.0	22.4	23.6	89.5	94.5	41.0-142			5.45	20
Dichlorodifluoromethane	25.0	28.9	29.1	116	116	51.0-149			0.486	20
cis-1,2-Dichloroethene	25.0	25.5	26.3	102	105	73.0-120			3.20	20
trans-1,4-Dichloro-2-butene	25.0	22.8	23.2	91.3	92.8	33.0-144			1.69	20
Ethylbenzene	25.0	25.2	26.5	101	106	79.0-123			4.97	20
Naphthalene	25.0	19.4	21.1	77.6	84.4	54.0-135			8.45	20
Tetrachloroethene	25.0	26.0	27.8	104	111	72.0-132			6.43	20
Toluene	25.0	24.8	25.8	99.2	103	79.0-120			3.86	20
Trichloroethene	25.0	23.8	24.7	95.2	98.8	78.0-124			3.79	20
1,2,4-Trimethylbenzene	25.0	27.0	27.4	108	110	76.0-121			1.75	20
1,2,3-Trimethylbenzene	25.0	25.1	25.4	101	102	77.0-120			1.25	20
1,3,5-Trimethylbenzene	25.0	25.9	26.2	104	105	76.0-122			1.14	20
Xylenes, Total	75.0	75.6	78.8	101	105	79.0-123			4.15	20
(S) Toluene-d8				105	105	80.0-120				
(S) Dibromofluoromethane				107	106	75.0-120				



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357068-1 11/05/18 09:32 • (LCSD) R3357068-2 11/05/18 09:52

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
(S) 4-Bromofluorobenzene				106	106	77.0-126				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.





Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

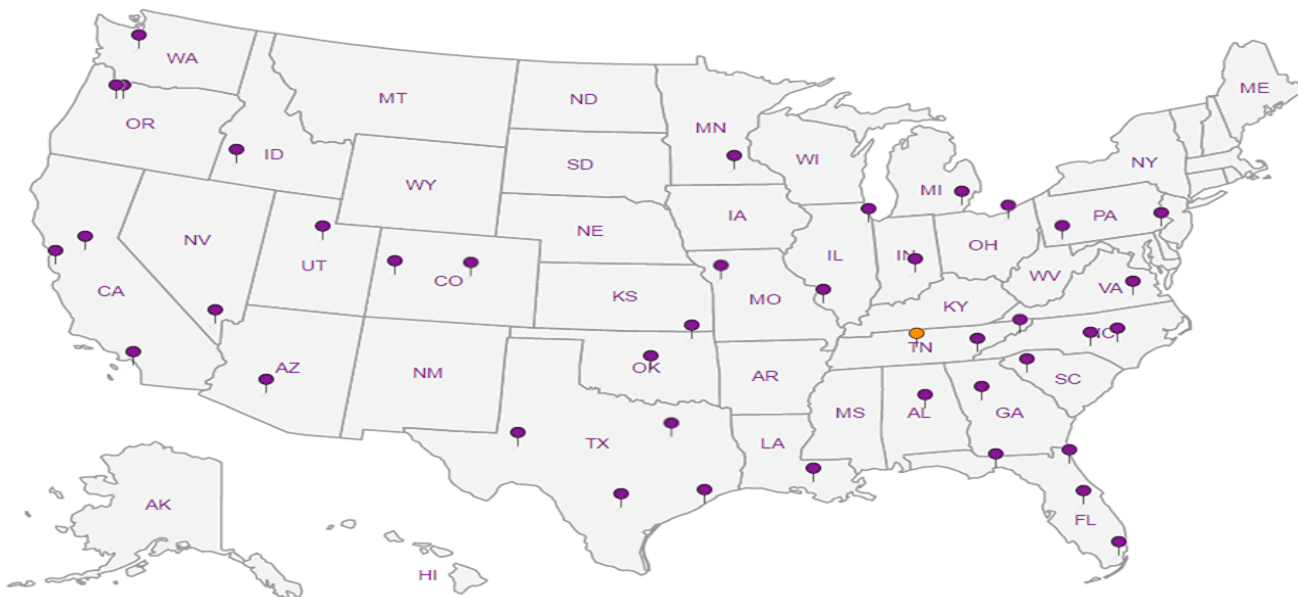
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
**Bill Haldeman**

Email To: bhaldeman@pesenv.com

Project Description: **American Linen**

City/State Collected:

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
**1413.001.05.601**

Lab Project #  
**PESENVSWA-HALDEMAN**

Collected by (print):  
**Ben Hecht**

Site/Facility ID #

P.O. #

Collected by (signature):  
*[Signature]*

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #  
Date Results Needed

Immediately Packed on Ice: N  Y

V8260C 40ml/Amb-HCl

L# **L1038867**  
**H151**

Acctnum: **PESENVSWA**  
Template: **T141146**  
Prelogin: **P673965**  
TSR: **110 - Brian Ford**  
PB:

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cnt's										Remarks	Sample # (lab only)
MW-134-102518	Grab	GW	85	10/25/18	12:00	3	X										-01
MW-141-102518		GW	90		13:20	3	X										-02
MW-104-102618		GW	124	10/26/18	08:45	3	X										-03
MW-133-102618		GW	134		11:05	3	X										-04
MW-137-102618		GW	110		13:30	3	X										-05
Rinsate	-	GW	-		12:15	3	X										-06
		GW				3	X										
		GW				3	X										
		GW				3	X										

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
**RAD SCREEN: <0.5 mCi** pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist  
 COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 IF Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature) *[Signature]* Date: **10/26/18** Time: **16:00**  
 Received by: (Signature) Trip Blank Received: Yes/No  HCL/MeOH TBR  
 Relinquished by: (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by: (Signature) Temp: \_\_\_\_\_ °C Bottles Received: **3.4 ± 0.3 18V0**  
 Relinquished by: (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received for lab by: (Signature) Date: **10/27/16** Time: **0845** Hold: \_\_\_\_\_ Condition: **NCF / OK**

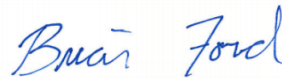
November 06, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1039305  
Samples Received: 10/30/2018  
Project Number: 14B.001.05  
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
MW-136-102918 L1039305-01	<b>5</b>	
MW-138-102918 L1039305-02	<b>7</b>	<b>4</b> Cn
W-MW-01-102918 L1039305-03	<b>9</b>	<b>5</b> Sr
TRIP BLANK L1039305-04	<b>11</b>	
<b>Qc: Quality Control Summary</b>	<b>13</b>	<b>6</b> Qc
Volatile Organic Compounds (GC) by Method NWTPHGX	<b>13</b>	
Volatile Organic Compounds (GC/MS) by Method 8260C	<b>14</b>	<b>7</b> Gl
<b>Gl: Glossary of Terms</b>	<b>18</b>	<b>8</b> Al
<b>Al: Accreditations &amp; Locations</b>	<b>19</b>	
<b>Sc: Sample Chain of Custody</b>	<b>20</b>	<b>9</b> Sc

# SAMPLE SUMMARY



## MW-136-102918 L1039305-01 GW

Collected by  
R. McLaughlin

Collected date/time  
10/29/18 08:30

Received date/time  
10/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1190352	1	11/02/18 19:24	11/02/18 19:24	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188785	1	10/31/18 01:41	10/31/18 01:41	JCP

1  
Cp

2  
Tc

3  
Ss

## MW-138-102918 L1039305-02 GW

Collected by  
R. McLaughlin

Collected date/time  
10/29/18 10:40

Received date/time  
10/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1190352	1	11/02/18 19:46	11/02/18 19:46	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188785	1	10/31/18 02:03	10/31/18 02:03	JCP

4  
Cn

5  
Sr

6  
Qc

## W-MW-01-102918 L1039305-03 GW

Collected by  
R. McLaughlin

Collected date/time  
10/29/18 12:10

Received date/time  
10/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1190352	1	11/02/18 20:09	11/02/18 20:09	JAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188785	1	10/31/18 02:24	10/31/18 02:24	JCP

7  
Gl

8  
Al

9  
Sc

## TRIP BLANK L1039305-04 GW

Collected by  
R. McLaughlin

Collected date/time  
10/29/18 00:00

Received date/time  
10/30/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1188785	1	10/30/18 20:00	10/30/18 20:00	JCP



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	31.9	<u>B</u> <u>J</u>	31.6	100	1	11/02/2018 19:24	<a href="#">WG1190352</a>
(S) a,a,a-Trifluorotoluene(FID)	93.9			78.0-120		11/02/2018 19:24	<a href="#">WG1190352</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.75	<u>J</u>	1.05	25.0	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Acrylonitrile	U		0.873	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Benzene	U		0.0896	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromobenzene	U		0.133	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromodichloromethane	U		0.0800	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromochloromethane	U		0.145	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromoform	U		0.186	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromomethane	U		0.157	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
n-Butylbenzene	U		0.143	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
sec-Butylbenzene	U		0.134	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
tert-Butylbenzene	U		0.183	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Carbon disulfide	U		0.101	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Carbon tetrachloride	U		0.159	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chlorobenzene	U		0.140	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chlorodibromomethane	U		0.128	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chloroethane	U		0.141	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chloroform	U		0.0860	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chloromethane	U		0.153	1.25	1	10/31/2018 01:41	<a href="#">WG1188785</a>
2-Chlorotoluene	U		0.111	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Dibromomethane	U		0.117	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
cis-1,2-Dichloroethene	1.44		0.0933	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Ethylbenzene	U		0.158	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
2-Hexanone	U		0.757	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
n-Hexane	U		0.305	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Iodomethane	0.461	<u>B</u> <u>J</u>	0.377	10.0	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Isopropylbenzene	U		0.126	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Naphthalene	U		0.174	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
n-Propylbenzene	U		0.162	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Styrene	U		0.117	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Tetrachloroethene	U		0.199	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Toluene	U		0.412	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Trichloroethene	0.177	U	0.153	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Vinyl acetate	U		0.645	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Vinyl chloride	0.236	U	0.118	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Xylenes, Total	U		0.316	1.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
(S) Toluene-d8	104			80.0-120		10/31/2018 01:41	<a href="#">WG1188785</a>
(S) Dibromofluoromethane	101			75.0-120		10/31/2018 01:41	<a href="#">WG1188785</a>
(S) 4-Bromofluorobenzene	103			77.0-126		10/31/2018 01:41	<a href="#">WG1188785</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 10/29/18 10:40

L1039305

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	38.5	<u>B</u> <u>J</u>	31.6	100	1	11/02/2018 19:46	<a href="#">WG1190352</a>
(S) a,a,a-Trifluorotoluene(FID)	93.7			78.0-120		11/02/2018 19:46	<a href="#">WG1190352</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.23	<u>J</u>	1.05	25.0	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Acrylonitrile	U		0.873	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Benzene	U		0.0896	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Bromobenzene	U		0.133	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Bromodichloromethane	U		0.0800	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Bromochloromethane	U		0.145	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Bromoform	U		0.186	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Bromomethane	U		0.157	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
n-Butylbenzene	U		0.143	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
sec-Butylbenzene	U		0.134	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
tert-Butylbenzene	U		0.183	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Carbon disulfide	U		0.101	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Carbon tetrachloride	U		0.159	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Chlorobenzene	U		0.140	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Chlorodibromomethane	U		0.128	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Chloroethane	U		0.141	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Chloroform	U		0.0860	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Chloromethane	U		0.153	1.25	1	10/31/2018 02:03	<a href="#">WG1188785</a>
2-Chlorotoluene	U		0.111	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Dibromomethane	U		0.117	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Ethylbenzene	U		0.158	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
2-Hexanone	U		0.757	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
n-Hexane	U		0.305	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Iodomethane	0.609	<u>B</u> <u>J</u>	0.377	10.0	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Isopropylbenzene	U		0.126	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>



Collected date/time: 10/29/18 10:40

L1039305

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Naphthalene	U		0.174	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
n-Propylbenzene	U		0.162	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Styrene	0.146	U	0.117	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Tetrachloroethene	U		0.199	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Toluene	U		0.412	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Trichloroethene	U		0.153	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Vinyl acetate	U		0.645	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Vinyl chloride	0.169	U	0.118	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Xylenes, Total	U		0.316	1.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
(S) Toluene-d8	106			80.0-120		10/31/2018 02:03	<a href="#">WG1188785</a>
(S) Dibromofluoromethane	102			75.0-120		10/31/2018 02:03	<a href="#">WG1188785</a>
(S) 4-Bromofluorobenzene	101			77.0-126		10/31/2018 02:03	<a href="#">WG1188785</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/02/2018 20:09	<a href="#">WG1190352</a>
(S) a,a,a-Trifluorotoluene(FID)	94.1			78.0-120		11/02/2018 20:09	<a href="#">WG1190352</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.39	J	1.05	25.0	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Acrylonitrile	U		0.873	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Benzene	U		0.0896	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Bromobenzene	U		0.133	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Bromodichloromethane	U		0.0800	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Bromochloromethane	U		0.145	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Bromoform	U		0.186	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Bromomethane	U		0.157	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
n-Butylbenzene	U		0.143	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
sec-Butylbenzene	U		0.134	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
tert-Butylbenzene	U		0.183	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Carbon disulfide	U		0.101	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Carbon tetrachloride	U		0.159	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Chlorobenzene	U		0.140	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Chlorodibromomethane	U		0.128	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Chloroethane	U		0.141	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Chloroform	U		0.0860	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Chloromethane	U		0.153	1.25	1	10/31/2018 02:24	<a href="#">WG1188785</a>
2-Chlorotoluene	U		0.111	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Dibromomethane	U		0.117	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
cis-1,2-Dichloroethene	0.629		0.0933	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Ethylbenzene	U		0.158	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
2-Hexanone	U		0.757	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
n-Hexane	U		0.305	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Iodomethane	0.659	B J	0.377	10.0	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Isopropylbenzene	U		0.126	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Naphthalene	U		0.174	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
n-Propylbenzene	U		0.162	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Styrene	0.242	U	0.117	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Tetrachloroethene	0.220	U	0.199	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Toluene	U		0.412	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Trichloroethene	0.696		0.153	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Vinyl acetate	U		0.645	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Vinyl chloride	3.90		0.118	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Xylenes, Total	U		0.316	1.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
(S) Toluene-d8	102			80.0-120		10/31/2018 02:24	<a href="#">WG1188785</a>
(S) Dibromofluoromethane	101			75.0-120		10/31/2018 02:24	<a href="#">WG1188785</a>
(S) 4-Bromofluorobenzene	102			77.0-126		10/31/2018 02:24	<a href="#">WG1188785</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/29/18 00:00

L1039305

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.48	J	1.05	25.0	1	10/30/2018 20:00	WG1188785
Acrylonitrile	U		0.873	5.00	1	10/30/2018 20:00	WG1188785
Benzene	U		0.0896	0.500	1	10/30/2018 20:00	WG1188785
Bromobenzene	U		0.133	0.500	1	10/30/2018 20:00	WG1188785
Bromodichloromethane	U		0.0800	0.500	1	10/30/2018 20:00	WG1188785
Bromochloromethane	U		0.145	0.500	1	10/30/2018 20:00	WG1188785
Bromoform	U		0.186	0.500	1	10/30/2018 20:00	WG1188785
Bromomethane	U		0.157	2.50	1	10/30/2018 20:00	WG1188785
n-Butylbenzene	U		0.143	0.500	1	10/30/2018 20:00	WG1188785
sec-Butylbenzene	U		0.134	0.500	1	10/30/2018 20:00	WG1188785
tert-Butylbenzene	U		0.183	0.500	1	10/30/2018 20:00	WG1188785
Carbon disulfide	U		0.101	0.500	1	10/30/2018 20:00	WG1188785
Carbon tetrachloride	U		0.159	0.500	1	10/30/2018 20:00	WG1188785
Chlorobenzene	U		0.140	0.500	1	10/30/2018 20:00	WG1188785
Chlorodibromomethane	U		0.128	0.500	1	10/30/2018 20:00	WG1188785
Chloroethane	U		0.141	2.50	1	10/30/2018 20:00	WG1188785
Chloroform	U		0.0860	0.500	1	10/30/2018 20:00	WG1188785
Chloromethane	U		0.153	1.25	1	10/30/2018 20:00	WG1188785
2-Chlorotoluene	U		0.111	0.500	1	10/30/2018 20:00	WG1188785
4-Chlorotoluene	U		0.0972	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/30/2018 20:00	WG1188785
1,2-Dibromoethane	U		0.193	0.500	1	10/30/2018 20:00	WG1188785
Dibromomethane	U		0.117	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichlorobenzene	U		0.101	0.500	1	10/30/2018 20:00	WG1188785
1,3-Dichlorobenzene	U		0.130	0.500	1	10/30/2018 20:00	WG1188785
1,4-Dichlorobenzene	U		0.121	0.500	1	10/30/2018 20:00	WG1188785
Dichlorodifluoromethane	U		0.127	2.50	1	10/30/2018 20:00	WG1188785
1,1-Dichloroethane	U		0.114	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichloroethane	U		0.108	0.500	1	10/30/2018 20:00	WG1188785
1,1-Dichloroethene	U		0.188	0.500	1	10/30/2018 20:00	WG1188785
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/30/2018 20:00	WG1188785
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichloropropane	U		0.190	0.500	1	10/30/2018 20:00	WG1188785
1,1-Dichloropropene	U		0.128	0.500	1	10/30/2018 20:00	WG1188785
1,3-Dichloropropane	U		0.147	1.00	1	10/30/2018 20:00	WG1188785
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/30/2018 20:00	WG1188785
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/30/2018 20:00	WG1188785
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/30/2018 20:00	WG1188785
2,2-Dichloropropane	U		0.0929	0.500	1	10/30/2018 20:00	WG1188785
Di-isopropyl ether	U		0.0924	0.500	1	10/30/2018 20:00	WG1188785
Ethylbenzene	U		0.158	0.500	1	10/30/2018 20:00	WG1188785
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/30/2018 20:00	WG1188785
2-Hexanone	U		0.757	5.00	1	10/30/2018 20:00	WG1188785
n-Hexane	U		0.305	5.00	1	10/30/2018 20:00	WG1188785
Iodomethane	0.869	BJ	0.377	10.0	1	10/30/2018 20:00	WG1188785
Isopropylbenzene	U		0.126	0.500	1	10/30/2018 20:00	WG1188785
p-Isopropyltoluene	U		0.138	0.500	1	10/30/2018 20:00	WG1188785
2-Butanone (MEK)	U		1.28	5.00	1	10/30/2018 20:00	WG1188785
Methylene Chloride	U		1.07	2.50	1	10/30/2018 20:00	WG1188785
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/30/2018 20:00	WG1188785
Methyl tert-butyl ether	U		0.102	0.500	1	10/30/2018 20:00	WG1188785
Naphthalene	U		0.174	2.50	1	10/30/2018 20:00	WG1188785
n-Propylbenzene	U		0.162	0.500	1	10/30/2018 20:00	WG1188785
Styrene	U		0.117	0.500	1	10/30/2018 20:00	WG1188785
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/30/2018 20:00	WG1188785
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/30/2018 20:00	WG1188785

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/29/18 00:00

L1039305

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Tetrachloroethene	U		0.199	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Toluene	U		0.412	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Trichloroethene	U		0.153	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Vinyl acetate	U		0.645	5.00	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Vinyl chloride	U		0.118	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Xylenes, Total	U		0.316	1.50	1	10/30/2018 20:00	<a href="#">WG1188785</a>
(S) Toluene-d8	104			80.0-120		10/30/2018 20:00	<a href="#">WG1188785</a>
(S) Dibromofluoromethane	102			75.0-120		10/30/2018 20:00	<a href="#">WG1188785</a>
(S) 4-Bromofluorobenzene	101			77.0-126		10/30/2018 20:00	<a href="#">WG1188785</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3357030-3 11/02/18 15:29

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	52.6	↓	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	93.9			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3357030-1 11/02/18 14:10 • (LCSD) R3357030-2 11/02/18 14:44

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5100	5100	92.7	92.8	70.0-124			0.0891	20
(S) a,a,a-Trifluorotoluene(FID)				98.7	98.6	78.0-120				

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3356994-3 10/30/18 19:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromochloromethane	U		0.145	0.500
Bromodichloromethane	U		0.0800	0.500
Bromoform	U		0.186	0.500
n-Butylbenzene	U		0.143	0.500
Bromomethane	U		0.157	2.50
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
Chloroform	U		0.0860	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
Chloromethane	U		0.153	1.25
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,1-Dichloropropene	U		0.128	0.500
1,2-Dichloroethane	U		0.108	0.500
1,3-Dichloropropane	U		0.147	1.00
1,1-Dichloroethene	U		0.188	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
1,2-Dichloropropane	U		0.190	0.500
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
cis-1,3-Dichloropropene	U		0.0976	0.500
Hexachloro-1,3-butadiene	0.310	U	0.157	1.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3356994-3 10/30/18 19:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
trans-1,3-Dichloropropene	U		0.222	0.500
n-Hexane	U		0.305	5.00
Iodomethane	0.875	U	0.377	10.0
Ethylbenzene	U		0.158	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Hexanone	U		0.757	5.00
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
Isopropylbenzene	U		0.126	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Styrene	U		0.117	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	0.197	U	0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	104			80.0-120
(S) Dibromofluoromethane	103			75.0-120
(S) 4-Bromofluorobenzene	103			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356994-1 10/30/18 18:00 • (LCSD) R3356994-2 10/30/18 18:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromobenzene	25.0	24.3	24.1	97.3	96.5	73.0-121			0.758	20
Bromochloromethane	25.0	25.5	25.6	102	102	76.0-122			0.290	20
n-Butylbenzene	25.0	25.2	25.1	101	100	73.0-125			0.420	20
sec-Butylbenzene	25.0	25.5	24.8	102	99.4	75.0-125			2.51	20
tert-Butylbenzene	25.0	25.7	25.5	103	102	76.0-124			1.12	20
2-Chlorotoluene	25.0	24.3	24.3	97.4	97.0	76.0-123			0.342	20
4-Chlorotoluene	25.0	24.9	24.1	99.7	96.4	75.0-122			3.43	20
1,2-Dibromo-3-Chloropropane	25.0	24.7	25.8	98.8	103	58.0-134			4.26	20
1,2-Dibromoethane	25.0	25.2	24.3	101	97.2	80.0-122			3.75	20
Dibromomethane	25.0	24.9	24.0	99.5	96.0	80.0-120			3.51	20
cis-1,2-Dichloroethene	25.0	24.3	24.4	97.0	97.7	73.0-120			0.691	20
1,1-Dichloropropene	25.0	26.2	25.2	105	101	74.0-126			4.09	20
1,3-Dichloropropane	25.0	24.8	24.2	99.4	96.8	80.0-120			2.62	20
trans-1,4-Dichloro-2-butene	25.0	24.3	24.7	97.3	98.6	33.0-144			1.39	20
2,2-Dichloropropane	25.0	24.6	23.7	98.2	94.7	58.0-130			3.61	20
Di-isopropyl ether	25.0	24.5	24.1	98.1	96.4	58.0-138			1.71	20
Hexachloro-1,3-butadiene	25.0	23.5	24.0	94.0	96.1	54.0-138			2.21	20
Acetone	125	121	119	96.5	94.9	19.0-160			1.66	27
n-Hexane	25.0	25.8	24.1	103	96.4	57.0-133			6.83	20
Iodomethane	125	132	132	105	105	33.0-147			0.0485	26
Acrylonitrile	125	119	120	95.5	96.4	55.0-149			0.855	20
Benzene	25.0	24.4	24.1	97.4	96.2	70.0-123			1.25	20
p-Isopropyltoluene	25.0	25.7	25.6	103	103	76.0-125			0.355	20
Bromodichloromethane	25.0	25.3	24.5	101	98.0	75.0-120			3.04	20
Bromoform	25.0	25.2	25.8	101	103	68.0-132			2.17	20
Bromomethane	25.0	26.4	25.1	106	100	10.0-160			5.20	25
Naphthalene	25.0	24.2	25.0	96.9	99.9	54.0-135			3.04	20
n-Propylbenzene	25.0	24.9	24.3	99.7	97.0	77.0-124			2.68	20
1,1,1,2-Tetrachloroethane	25.0	24.8	24.0	99.3	96.1	75.0-125			3.25	20
Carbon disulfide	25.0	25.1	23.9	101	95.8	61.0-128			4.93	20
Carbon tetrachloride	25.0	24.9	24.3	99.4	97.3	68.0-126			2.16	20
Chlorobenzene	25.0	24.8	24.0	99.0	96.0	80.0-121			3.10	20
Chlorodibromomethane	25.0	24.6	24.1	98.3	96.5	77.0-125			1.87	20
Chloroethane	25.0	25.5	24.4	102	97.4	47.0-150			4.79	20
Chloroform	25.0	23.6	23.2	94.4	92.7	73.0-120			1.75	20
Chloromethane	25.0	25.3	23.4	101	93.5	41.0-142			7.79	20
1,2,3-Trichloropropane	25.0	24.2	24.3	96.9	97.0	73.0-130			0.0849	20
1,2,4-Trimethylbenzene	25.0	25.0	24.8	100	99.3	76.0-121			0.900	20
1,2,3-Trimethylbenzene	25.0	24.3	24.2	97.3	96.9	77.0-120			0.418	20
1,3,5-Trimethylbenzene	25.0	24.8	24.1	99.2	96.6	76.0-122			2.75	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3356994-1 10/30/18 18:00 • (LCSD) R3356994-2 10/30/18 18:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
1,2-Dichlorobenzene	25.0	24.9	24.2	99.7	96.9	79.0-121			2.79	20
Vinyl acetate	125	135	132	108	105	11.0-160			2.43	20
1,3-Dichlorobenzene	25.0	24.5	23.9	97.9	95.8	79.0-120			2.25	20
1,4-Dichlorobenzene	25.0	23.3	23.1	93.1	92.4	79.0-120			0.784	20
Dichlorodifluoromethane	25.0	27.9	25.8	112	103	51.0-149			7.70	20
1,1-Dichloroethane	25.0	25.1	24.3	100	97.2	70.0-126			3.26	20
1,2-Dichloroethane	25.0	24.7	24.3	98.7	97.4	70.0-128			1.32	20
1,1-Dichloroethene	25.0	26.6	25.3	106	101	71.0-124			5.12	20
trans-1,2-Dichloroethene	25.0	25.4	24.2	102	96.8	73.0-120			4.78	20
1,2-Dichloropropane	25.0	25.5	24.7	102	98.9	77.0-125			3.27	20
cis-1,3-Dichloropropene	25.0	24.7	24.1	98.7	96.5	80.0-123			2.29	20
trans-1,3-Dichloropropene	25.0	25.1	24.6	100	98.4	78.0-124			2.09	20
Ethylbenzene	25.0	24.6	23.7	98.5	94.7	79.0-123			3.88	20
2-Hexanone	125	126	123	101	98.4	67.0-149			2.54	20
Isopropylbenzene	25.0	25.3	24.6	101	98.4	76.0-127			2.76	20
2-Butanone (MEK)	125	120	118	96.0	94.8	44.0-160			1.22	20
Methylene Chloride	25.0	23.3	22.9	93.3	91.5	67.0-120			1.90	20
4-Methyl-2-pentanone (MIBK)	125	123	122	98.7	97.8	68.0-142			0.861	20
Methyl tert-butyl ether	25.0	24.5	23.9	98.0	95.7	68.0-125			2.35	20
Styrene	25.0	25.2	25.1	101	100	73.0-130			0.365	20
1,1,2,2-Tetrachloroethane	25.0	24.8	24.4	99.3	97.7	65.0-130			1.68	20
1,1,2-Trichlorotrifluoroethane	25.0	27.0	25.5	108	102	69.0-132			5.64	20
Tetrachloroethene	25.0	25.1	24.6	100	98.4	72.0-132			2.01	20
Toluene	25.0	24.3	23.3	97.3	93.2	79.0-120			4.29	20
1,2,3-Trichlorobenzene	25.0	24.3	25.3	97.2	101	50.0-138			3.89	20
1,2,4-Trichlorobenzene	25.0	25.2	24.6	101	98.5	57.0-137			2.44	20
1,1,1-Trichloroethane	25.0	26.2	24.8	105	99.2	73.0-124			5.46	20
1,1,2-Trichloroethane	25.0	25.5	24.2	102	96.7	80.0-120			5.50	20
Trichloroethene	25.0	25.2	23.7	101	94.7	78.0-124			6.30	20
Trichlorofluoromethane	25.0	26.8	25.9	107	103	59.0-147			3.74	20
Vinyl chloride	25.0	26.7	25.4	107	102	67.0-131			4.81	20
Xylenes, Total	75.0	75.6	72.7	101	96.9	79.0-123			3.91	20
(S) Toluene-d8				102	100	80.0-120				
(S) Dibromofluoromethane				102	99.5	75.0-120				
(S) 4-Bromofluorobenzene				101	104	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

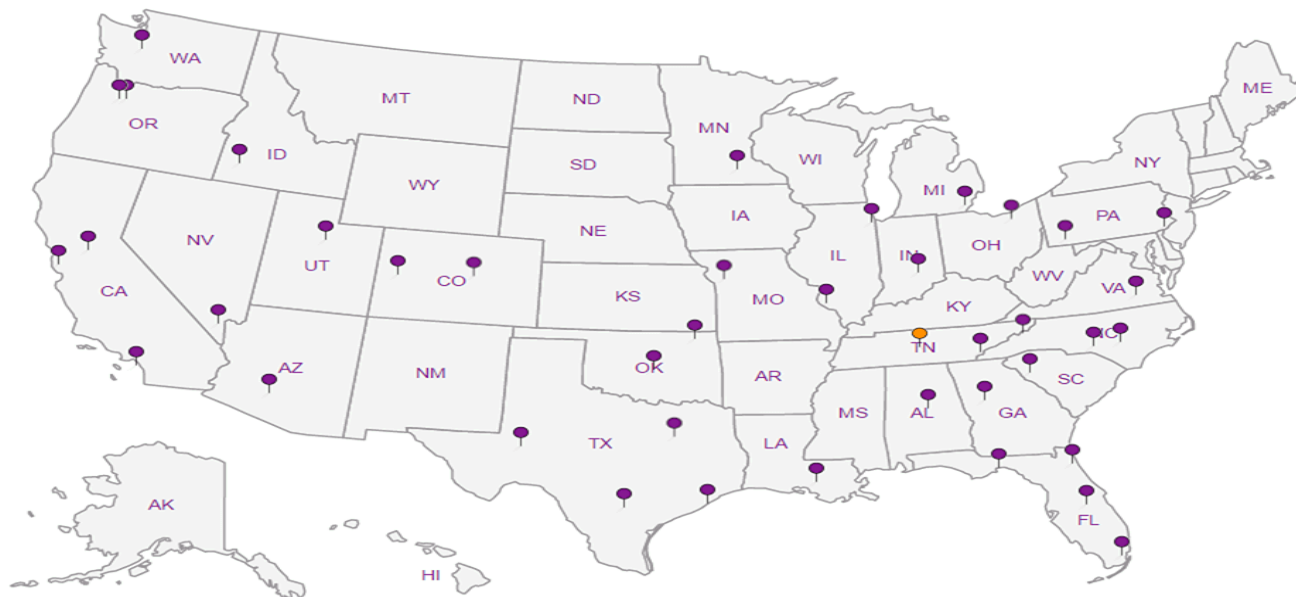
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



12065 Lebanon Rd  
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Phone: 800-767-5859  
Fax: 615-758-5859



Report to: **Bill Haldeman** Email To: **bhaldeman@pesenv.com**

Project Description: **American Linen** City/State Collected: **Seattle WA**

Phone: **206-529-3980** Client Project # **14B.001.05** Lab Project # **PESENVSWA-HALDEMAN**  
Fax: **206-529-3985**

Collected by (print): **R. McLaughlin** Site/Facility ID # P.O. #

Collected by (signature): *R. McLaughlin* **Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day  
Immediately Packed on Ice N  Y  Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Nc. of Cnts	
MW-136-102918	Grab	GW	89	10/29/18	830	3	X
MW-138-102918	↓	GW	110	↓	1040	3	X
W-MW-01-102918	Y	GW	73.5'	X	1210	3	X
Trip Blank	—	GW	—	—	—	3	X
		GW				3	X
		GW				3	X
		GW				3	X
		GW				3	X
		GW				3	X
		GW				3	X

V8260C 40ml/amb-HCl

L# **L1039305**  
**B157**

Acctnum: **PESENVSWA**  
Template: **T141146**  
Prelogin: **P673964**  
TSR: **110 - Brian Ford**  
PB:

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

**RAD SCREEN: <0.5 mR/hr**

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

COC Seal Present/Intact:  NP  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VQA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **4196 3258 7810**

Relinquished by: (Signature) *R. McLaughlin* Date: **10/29/18** Time: **1305**

Received by: (Signature) Trip Blank Received:  Yes  No  
(HCl / MeOH TBR)

Relinquished by: (Signature) Date: Time:

Received by: (Signature) Temp: **20.1°C** Bottles Received: **9**  
**1.9 2.082**

Relinquished by: (Signature) Date: Time:

Received for lab by: (Signature) *JK Fair* Date: **10/30/18** Time: **0845**

If preservation required by Login: Date/Time  
Hold: Condition: **NCF / (OK)**



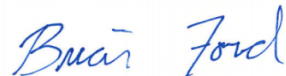
December 31, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1053029  
Samples Received: 12/14/2018  
Project Number: 1413.001.05.601  
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:

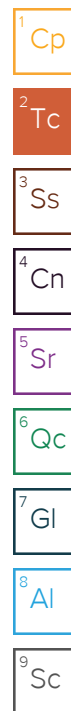


Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## MW-150-121218 L1053029-01 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/12/18 10:45	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211718	5	12/17/18 08:20	12/17/18 08:20	ACG			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 12:43	12/16/18 12:43	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	250	12/18/18 03:11	12/18/18 03:11	ACG			

- 1  
Cp
- 2  
Tc
- 3  
Ss
- 4  
Cn
- 5  
Sr
- 6  
Qc
- 7  
Gl
- 8  
Al
- 9  
Sc

## MW-139-121218 L1053029-02 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/12/18 11:40	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 17:26	12/15/18 17:26	DWR			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 13:02	12/16/18 13:02	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/17/18 22:22	12/17/18 22:22	ACG			

## EQ-121218 L1053029-03 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/12/18 15:30	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 17:47	12/15/18 17:47	DWR			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 13:21	12/16/18 13:21	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/17/18 22:42	12/17/18 22:42	ACG			

## MW-136-121318 L1053029-04 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/13/18 09:20	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 18:09	12/15/18 18:09	DWR			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 13:40	12/16/18 13:40	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/17/18 23:01	12/17/18 23:01	ACG			

## W-MW-01-121318 L1053029-05 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/13/18 11:00	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 18:30	12/15/18 18:30	DWR			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 13:59	12/16/18 13:59	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/17/18 23:21	12/17/18 23:21	ACG			

## MW-104-121318 L1053029-06 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/13/18 13:00	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 18:51	12/15/18 18:51	DWR			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 14:18	12/16/18 14:18	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/17/18 23:40	12/17/18 23:40	ACG			

# SAMPLE SUMMARY



## MW-149-121318 L1053029-07 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/13/18 09:10	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Wet Chemistry by Method 2320 B-2011	WG1212038	1	12/18/18 23:18	12/18/18 23:18	GB			
Wet Chemistry by Method 9056A	WG1210790	1	12/14/18 19:37	12/14/18 19:37	ELN			
Wet Chemistry by Method 9056A	WG1211292	5	12/15/18 17:19	12/15/18 17:19	MAJ			
Wet Chemistry by Method 9060A	WG1216768	1	12/28/18 20:11	12/28/18 20:11	SJM			
Metals (ICPMS) by Method 6020B	WG1211321	1	12/15/18 09:56	12/15/18 15:42	WBD			
Metals (ICPMS) by Method 6020B	WG1211321	5	12/15/18 09:56	12/16/18 18:56	LD			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211718	5	12/17/18 08:41	12/17/18 08:41	ACG			
Volatile Organic Compounds (GC) by Method RSK175	WG1212060	1	12/18/18 09:50	12/18/18 09:50	MEL			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 14:37	12/16/18 14:37	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	500	12/18/18 03:31	12/18/18 03:31	ACG			

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-132-121318 L1053029-08 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/13/18 11:45	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Wet Chemistry by Method 2320 B-2011	WG1212038	1	12/18/18 23:25	12/18/18 23:25	GB			
Wet Chemistry by Method 9056A	WG1210790	1	12/14/18 19:53	12/14/18 19:53	ELN			
Wet Chemistry by Method 9060A	WG1216768	1	12/28/18 21:30	12/28/18 21:30	SJM			
Metals (ICPMS) by Method 6020B	WG1211333	1	12/18/18 07:41	12/18/18 11:14	JPD			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 19:34	12/15/18 19:34	DWR			
Volatile Organic Compounds (GC) by Method RSK175	WG1212060	1	12/18/18 09:41	12/18/18 09:41	MEL			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 14:55	12/16/18 14:55	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	5	12/18/18 03:50	12/18/18 03:50	ACG			

## MW-904-121318 L1053029-09 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/13/18 08:00	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Wet Chemistry by Method 2320 B-2011	WG1212038	1	12/18/18 23:44	12/18/18 23:44	GB			
Wet Chemistry by Method 9056A	WG1210790	1	12/14/18 20:08	12/14/18 20:08	ELN			
Wet Chemistry by Method 9056A	WG1211292	5	12/15/18 17:30	12/15/18 17:30	MAJ			
Wet Chemistry by Method 9060A	WG1216768	1	12/28/18 22:00	12/28/18 22:00	SJM			
Metals (ICPMS) by Method 6020B	WG1211321	1	12/15/18 09:56	12/15/18 15:46	WBD			
Metals (ICPMS) by Method 6020B	WG1211321	5	12/15/18 09:56	12/16/18 19:01	LD			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211718	5	12/17/18 09:02	12/17/18 09:02	ACG			
Volatile Organic Compounds (GC) by Method RSK175	WG1212060	1	12/18/18 09:53	12/18/18 09:53	MEL			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 15:14	12/16/18 15:14	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	500	12/18/18 04:10	12/18/18 04:10	ACG			

## MW-135-121318 L1053029-10 GW

						Collected by	Collected date/time	Received date/time
						BH/AW	12/13/18 13:50	12/14/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Wet Chemistry by Method 2320 B-2011	WG1212038	1	12/18/18 23:51	12/18/18 23:51	GB			
Wet Chemistry by Method 9056A	WG1210790	1	12/14/18 20:54	12/14/18 20:54	ELN			
Wet Chemistry by Method 9056A	WG1210790	5	12/14/18 21:10	12/14/18 21:10	ELN			
Wet Chemistry by Method 9060A	WG1216768	1	12/28/18 22:29	12/28/18 22:29	SJM			
Metals (ICPMS) by Method 6020B	WG1211321	1	12/15/18 09:56	12/15/18 14:40	WBD			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	25	12/15/18 20:16	12/15/18 20:16	DWR			
Volatile Organic Compounds (GC) by Method RSK175	WG1212060	1	12/18/18 09:56	12/18/18 09:56	MEL			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	50	12/16/18 15:33	12/16/18 15:33	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	2500	12/18/18 04:29	12/18/18 04:29	ACG			



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

Sample Handling and Receiving

The following analysis were performed from an unpreserved, insufficiently or inadequately preserved sample.

<u>Lab Sample ID</u>	<u>Project Sample ID</u>	<u>Method</u>
<a href="#">L1053029-08</a>	<a href="#">MW-132-121318</a>	9060A

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	17500		158	500	5	12/17/2018 08:20	<a href="#">WG1211718</a>
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120		12/17/2018 08:20	<a href="#">WG1211718</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		262	6250	250	12/18/2018 03:11	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Benzene	0.429	J	0.0896	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Chloroethane	3.42		0.141	2.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Chloroform	0.132	J	0.0860	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 12:43	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,1-Dichloroethene	74.5		0.188	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	32800		23.3	125	250	12/18/2018 03:11	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	242		38.0	125	250	12/18/2018 03:11	<a href="#">WG1212222</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	1.24	U	1.07	2.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Tetrachloroethene	75.6		0.199	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Toluene	1.04		0.412	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Trichloroethene	533		38.2	125	250	12/18/2018 03:11	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 12:43	<a href="#">WG1211567</a>
Vinyl chloride	2040		29.5	125	250	12/18/2018 03:11	<a href="#">WG1212222</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 12:43	<a href="#">WG1211567</a>
(S) Toluene-d8	102			80.0-120		12/16/2018 12:43	<a href="#">WG1211567</a>
(S) Toluene-d8	107			80.0-120		12/18/2018 03:11	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	103			75.0-120		12/16/2018 12:43	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	88.8			75.0-120		12/18/2018 03:11	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	94.9			77.0-126		12/16/2018 12:43	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.9			77.0-126		12/18/2018 03:11	<a href="#">WG1212222</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1053029-01 WG1212222, WG1211567: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1053029-01 WG1212222, WG1211567: Not all compounds reportable at lower dilution.



Collected date/time: 12/12/18 11:40

L1053029

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 17:26	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		12/15/2018 17:26	<a href="#">WG1211498</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.89	J	1.05	25.0	1	12/17/2018 22:22	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 13:02	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	0.216	J	0.0933	0.500	1	12/17/2018 22:22	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/17/2018 22:22	<a href="#">WG1212222</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Toluene	U		0.412	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Trichloroethene	U		0.153	0.500	1	12/17/2018 22:22	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 13:02	<a href="#">WG1211567</a>
Vinyl chloride	U		0.118	0.500	1	12/17/2018 22:22	<a href="#">WG1212222</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 13:02	<a href="#">WG1211567</a>
(S) Toluene-d8	105			80.0-120		12/16/2018 13:02	<a href="#">WG1211567</a>
(S) Toluene-d8	107			80.0-120		12/17/2018 22:22	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	102			75.0-120		12/16/2018 13:02	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	87.0			75.0-120		12/17/2018 22:22	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	95.9			77.0-126		12/16/2018 13:02	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.9			77.0-126		12/17/2018 22:22	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 17:47	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	102			78.0-120		12/15/2018 17:47	<a href="#">WG1211498</a>

1 Cp

2 Tc

3 Ss

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.01	J	1.05	25.0	1	12/17/2018 22:42	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 13:21	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/17/2018 22:42	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 12/12/18 15:30

L1053029

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Toluene	U		0.412	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Trichloroethene	U		0.153	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 13:21	<a href="#">WG1211567</a>
Vinyl chloride	U		0.118	0.500	1	12/17/2018 22:42	<a href="#">WG1212222</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 13:21	<a href="#">WG1211567</a>
(S) Toluene-d8	100			80.0-120		12/16/2018 13:21	<a href="#">WG1211567</a>
(S) Toluene-d8	108			80.0-120		12/17/2018 22:42	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	108			75.0-120		12/16/2018 13:21	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	87.1			75.0-120		12/17/2018 22:42	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		12/16/2018 13:21	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	97.5			77.0-126		12/17/2018 22:42	<a href="#">WG1212222</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 12/13/18 09:20

L1053029

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U	<u>J3</u>	31.6	100	1	12/15/2018 18:09	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	102			78.0-120		12/15/2018 18:09	<a href="#">WG1211498</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	12/17/2018 23:01	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 13:40	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	0.962		0.0933	0.500	1	12/17/2018 23:01	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Toluene	U		0.412	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Trichloroethene	0.237	U	0.153	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 13:40	<a href="#">WG1211567</a>
Vinyl chloride	U		0.118	0.500	1	12/17/2018 23:01	<a href="#">WG1212222</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 13:40	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/16/2018 13:40	<a href="#">WG1211567</a>
(S) Toluene-d8	110			80.0-120		12/17/2018 23:01	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	102			75.0-120		12/16/2018 13:40	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	87.6			75.0-120		12/17/2018 23:01	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	94.4			77.0-126		12/16/2018 13:40	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	98.4			77.0-126		12/17/2018 23:01	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 12/13/18 11:00

L1053029

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 18:30	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		12/15/2018 18:30	<a href="#">WG1211498</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	12/17/2018 23:21	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 13:59	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	0.538		0.0933	0.500	1	12/17/2018 23:21	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>



Collected date/time: 12/13/18 11:00

L1053029

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Toluene	U		0.412	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Trichloroethene	1.77		0.153	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Vinyl chloride	3.86		0.118	0.500	1	12/16/2018 13:59	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 13:59	<a href="#">WG1211567</a>
(S) Toluene-d8	93.8			80.0-120		12/16/2018 13:59	<a href="#">WG1211567</a>
(S) Toluene-d8	107			80.0-120		12/17/2018 23:21	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	107			75.0-120		12/16/2018 13:59	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	88.2			75.0-120		12/17/2018 23:21	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	91.7			77.0-126		12/16/2018 13:59	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		12/17/2018 23:21	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 12/13/18 13:00

L1053029

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	54.0	J	31.6	100	1	12/15/2018 18:51	WG1211498
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		12/15/2018 18:51	WG1211498

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.23	J	1.05	25.0	1	12/17/2018 23:40	WG1212222
Acrylonitrile	U		0.873	5.00	1	12/16/2018 14:18	WG1211567
Benzene	U		0.0896	0.500	1	12/16/2018 14:18	WG1211567
Bromobenzene	U		0.133	0.500	1	12/16/2018 14:18	WG1211567
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 14:18	WG1211567
Bromochloromethane	U		0.145	0.500	1	12/16/2018 14:18	WG1211567
Bromoform	U		0.186	0.500	1	12/16/2018 14:18	WG1211567
Bromomethane	U		0.157	2.50	1	12/16/2018 14:18	WG1211567
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 14:18	WG1211567
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 14:18	WG1211567
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 14:18	WG1211567
Carbon disulfide	0.243	J	0.101	0.500	1	12/16/2018 14:18	WG1211567
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 14:18	WG1211567
Chlorobenzene	U		0.140	0.500	1	12/16/2018 14:18	WG1211567
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 14:18	WG1211567
Chloroethane	U		0.141	2.50	1	12/16/2018 14:18	WG1211567
Chloroform	U		0.0860	0.500	1	12/16/2018 14:18	WG1211567
Chloromethane	U		0.153	1.25	1	12/16/2018 14:18	WG1211567
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 14:18	WG1211567
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 14:18	WG1211567
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 14:18	WG1211567
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 14:18	WG1211567
Dibromomethane	U		0.117	0.500	1	12/16/2018 14:18	WG1211567
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 14:18	WG1211567
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 14:18	WG1211567
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 14:18	WG1211567
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 14:18	WG1211567
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 14:18	WG1211567
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 14:18	WG1211567
1,1-Dichloroethene	1.16		0.188	0.500	1	12/16/2018 14:18	WG1211567
cis-1,2-Dichloroethene	48.3		0.0933	0.500	1	12/16/2018 14:18	WG1211567
trans-1,2-Dichloroethene	0.559		0.152	0.500	1	12/16/2018 14:18	WG1211567
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 14:18	WG1211567
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 14:18	WG1211567
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 14:18	WG1211567
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 14:18	WG1211567
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 14:18	WG1211567
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 14:18	WG1211567
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 14:18	WG1211567
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 14:18	WG1211567
Ethylbenzene	U		0.158	0.500	1	12/16/2018 14:18	WG1211567
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 14:18	WG1211567
2-Hexanone	U		0.757	5.00	1	12/16/2018 14:18	WG1211567
n-Hexane	U		0.305	5.00	1	12/16/2018 14:18	WG1211567
Iodomethane	U		0.377	10.0	1	12/16/2018 14:18	WG1211567
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 14:18	WG1211567
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 14:18	WG1211567
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 14:18	WG1211567

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 14:18	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 14:18	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Tetrachloroethene	0.381	U	0.199	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Toluene	U		0.412	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Trichloroethene	2.36		0.153	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Vinyl chloride	43.8		0.118	0.500	1	12/16/2018 14:18	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 14:18	<a href="#">WG1211567</a>
(S) Toluene-d8	102			80.0-120		12/16/2018 14:18	<a href="#">WG1211567</a>
(S) Toluene-d8	106			80.0-120		12/17/2018 23:40	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	106			75.0-120		12/16/2018 14:18	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	89.3			75.0-120		12/17/2018 23:40	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	91.7			77.0-126		12/16/2018 14:18	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	94.4			77.0-126		12/17/2018 23:40	<a href="#">WG1212222</a>

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	407000		2710	20000	1	12/18/2018 23:18	<a href="#">WG1212038</a>

Sample Narrative:

L1053029-07 WG1212038: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	7710		260	5000	5	12/15/2018 17:19	<a href="#">WG1211292</a>
Nitrate	U		22.7	100	1	12/14/2018 19:37	<a href="#">WG1210790</a>
Sulfate	225000		387	25000	5	12/15/2018 17:19	<a href="#">WG1211292</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	75100		102	1000	1	12/28/2018 20:11	<a href="#">WG1216768</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	26100		15.0	100	1	12/15/2018 15:42	<a href="#">WG1211321</a>
Manganese	12800		1.25	25.0	5	12/16/2018 18:56	<a href="#">WG1211321</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	11400		158	500	5	12/17/2018 08:41	<a href="#">WG1211718</a>
(S) a,a,a-Trifluorotoluene(FID)	111			78.0-120		12/17/2018 08:41	<a href="#">WG1211718</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	2430		0.287	0.678	1	12/18/2018 09:50	<a href="#">WG1212060</a>
Ethane	35.9		0.296	1.29	1	12/18/2018 09:50	<a href="#">WG1212060</a>
Ethene	22.5		0.422	1.27	1	12/18/2018 09:50	<a href="#">WG1212060</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		525	12500	500	12/18/2018 03:31	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 14:37	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 14:37	<a href="#">WG1211567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	12/16/2018 14:37	WG1211567
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 14:37	WG1211567
Chloroethane	10.3		0.141	2.50	1	12/16/2018 14:37	WG1211567
Chloroform	0.776		0.0860	0.500	1	12/16/2018 14:37	WG1211567
Chloromethane	U		0.153	1.25	1	12/16/2018 14:37	WG1211567
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 14:37	WG1211567
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 14:37	WG1211567
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 14:37	WG1211567
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 14:37	WG1211567
Dibromomethane	U		0.117	0.500	1	12/16/2018 14:37	WG1211567
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 14:37	WG1211567
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 14:37	WG1211567
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 14:37	WG1211567
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 14:37	WG1211567
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 14:37	WG1211567
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 14:37	WG1211567
1,1-Dichloroethene	30.4		0.188	0.500	1	12/16/2018 14:37	WG1211567
cis-1,2-Dichloroethene	5150		46.6	250	500	12/18/2018 03:31	WG1212222
trans-1,2-Dichloroethene	18.2		0.152	0.500	1	12/16/2018 14:37	WG1211567
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 14:37	WG1211567
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 14:37	WG1211567
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 14:37	WG1211567
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 14:37	WG1211567
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 14:37	WG1211567
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 14:37	WG1211567
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 14:37	WG1211567
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 14:37	WG1211567
Ethylbenzene	U		0.158	0.500	1	12/16/2018 14:37	WG1211567
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 14:37	WG1211567
2-Hexanone	U		0.757	5.00	1	12/16/2018 14:37	WG1211567
n-Hexane	U		0.305	5.00	1	12/16/2018 14:37	WG1211567
Iodomethane	U		0.377	10.0	1	12/16/2018 14:37	WG1211567
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 14:37	WG1211567
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 14:37	WG1211567
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 14:37	WG1211567
Methylene Chloride	U		1.07	2.50	1	12/16/2018 14:37	WG1211567
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 14:37	WG1211567
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 14:37	WG1211567
Naphthalene	U		0.174	2.50	1	12/16/2018 14:37	WG1211567
n-Propylbenzene	0.164	U	0.162	0.500	1	12/16/2018 14:37	WG1211567
Styrene	U		0.117	0.500	1	12/16/2018 14:37	WG1211567
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 14:37	WG1211567
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 14:37	WG1211567
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 14:37	WG1211567
Tetrachloroethene	23300		99.5	250	500	12/18/2018 03:31	WG1212222
Toluene	0.717		0.412	0.500	1	12/16/2018 14:37	WG1211567
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 14:37	WG1211567
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 14:37	WG1211567
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 14:37	WG1211567
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 14:37	WG1211567
Trichloroethene	5470		76.5	250	500	12/18/2018 03:31	WG1212222
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 14:37	WG1211567
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 14:37	WG1211567
1,2,4-Trimethylbenzene	0.451	U	0.123	0.500	1	12/16/2018 14:37	WG1211567
1,2,3-Trimethylbenzene	0.178	U	0.0739	0.500	1	12/16/2018 14:37	WG1211567
1,3,5-Trimethylbenzene	0.144	U	0.124	0.500	1	12/16/2018 14:37	WG1211567

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	12/16/2018 14:37	<a href="#">WG1211567</a>
Vinyl chloride	253		59.0	250	500	12/18/2018 03:31	<a href="#">WG1212222</a>
Xylenes, Total	0.414	J	0.316	1.50	1	12/16/2018 14:37	<a href="#">WG1211567</a>
(S) Toluene-d8	99.2			80.0-120		12/16/2018 14:37	<a href="#">WG1211567</a>
(S) Toluene-d8	109			80.0-120		12/18/2018 03:31	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	105			75.0-120		12/16/2018 14:37	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	89.0			75.0-120		12/18/2018 03:31	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	92.4			77.0-126		12/16/2018 14:37	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.2			77.0-126		12/18/2018 03:31	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1053029-07 WG1212222, WG1211567: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1053029-07 WG1212222, WG1211567: Not all compounds reportable at lower dilution.



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	260000		2710	20000	1	12/18/2018 23:25	<a href="#">WG1212038</a>

Sample Narrative:

L1053029-08 WG1212038: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	40400		51.9	1000	1	12/14/2018 19:53	<a href="#">WG1210790</a>
Nitrate	U		22.7	100	1	12/14/2018 19:53	<a href="#">WG1210790</a>
Sulfate	7210		77.4	5000	1	12/14/2018 19:53	<a href="#">WG1210790</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3440		102	1000	1	12/28/2018 21:30	<a href="#">WG1216768</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	544	<u>B</u>	15.0	100	1	12/18/2018 11:14	<a href="#">WG1211333</a>
Manganese	278		0.250	5.00	1	12/18/2018 11:14	<a href="#">WG1211333</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 19:34	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		12/15/2018 19:34	<a href="#">WG1211498</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	89.7		0.287	0.678	1	12/18/2018 09:41	<a href="#">WG1212060</a>
Ethane	0.925	<u>J</u>	0.296	1.29	1	12/18/2018 09:41	<a href="#">WG1212060</a>
Ethene	41.0		0.422	1.27	1	12/18/2018 09:41	<a href="#">WG1212060</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		5.25	125	5	12/18/2018 03:50	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 14:55	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	12/16/2018 14:55	WG1211567
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 14:55	WG1211567
Chloroethane	U		0.141	2.50	1	12/16/2018 14:55	WG1211567
Chloroform	U		0.0860	0.500	1	12/16/2018 14:55	WG1211567
Chloromethane	U		0.153	1.25	1	12/16/2018 14:55	WG1211567
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 14:55	WG1211567
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 14:55	WG1211567
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 14:55	WG1211567
Dibromomethane	U		0.117	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 14:55	WG1211567
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 14:55	WG1211567
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 14:55	WG1211567
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 14:55	WG1211567
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 14:55	WG1211567
1,1-Dichloroethene	0.450	U	0.188	0.500	1	12/16/2018 14:55	WG1211567
cis-1,2-Dichloroethene	39.8		0.466	2.50	5	12/18/2018 03:50	WG1212222
trans-1,2-Dichloroethene	0.497	U	0.152	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 14:55	WG1211567
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 14:55	WG1211567
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 14:55	WG1211567
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 14:55	WG1211567
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 14:55	WG1211567
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 14:55	WG1211567
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 14:55	WG1211567
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 14:55	WG1211567
Ethylbenzene	U		0.158	0.500	1	12/16/2018 14:55	WG1211567
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 14:55	WG1211567
2-Hexanone	U		0.757	5.00	1	12/16/2018 14:55	WG1211567
n-Hexane	U		0.305	5.00	1	12/16/2018 14:55	WG1211567
Iodomethane	U		0.377	10.0	1	12/16/2018 14:55	WG1211567
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 14:55	WG1211567
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 14:55	WG1211567
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 14:55	WG1211567
Methylene Chloride	U		1.07	2.50	1	12/16/2018 14:55	WG1211567
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 14:55	WG1211567
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 14:55	WG1211567
Naphthalene	U		0.174	2.50	1	12/16/2018 14:55	WG1211567
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 14:55	WG1211567
Styrene	U		0.117	0.500	1	12/16/2018 14:55	WG1211567
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 14:55	WG1211567
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 14:55	WG1211567
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 14:55	WG1211567
Tetrachloroethene	U		0.995	2.50	5	12/18/2018 03:50	WG1212222
Toluene	U		0.412	0.500	1	12/16/2018 14:55	WG1211567
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 14:55	WG1211567
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 14:55	WG1211567
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 14:55	WG1211567
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 14:55	WG1211567
Trichloroethene	U		0.765	2.50	5	12/18/2018 03:50	WG1212222
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 14:55	WG1211567
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 14:55	WG1211567
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 14:55	WG1211567
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 14:55	WG1211567
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 14:55	WG1211567

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Vinyl chloride	199		0.590	2.50	5	12/18/2018 03:50	<a href="#">WG1212222</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 14:55	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/16/2018 14:55	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/18/2018 03:50	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	109			75.0-120		12/16/2018 14:55	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	89.7			75.0-120		12/18/2018 03:50	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	92.0			77.0-126		12/16/2018 14:55	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	95.7			77.0-126		12/18/2018 03:50	<a href="#">WG1212222</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1053029-08 WG1212222, WG1211567: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1053029-08 WG1212222, WG1211567: Not all compounds reportable at lower dilution.



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	404000		2710	20000	1	12/18/2018 23:44	<a href="#">WG1212038</a>

Sample Narrative:

L1053029-09 WG1212038: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	8030		260	5000	5	12/15/2018 17:30	<a href="#">WG1211292</a>
Nitrate	U		22.7	100	1	12/14/2018 20:08	<a href="#">WG1210790</a>
Sulfate	239000		387	25000	5	12/15/2018 17:30	<a href="#">WG1211292</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	74500		102	1000	1	12/28/2018 22:00	<a href="#">WG1216768</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	26300		15.0	100	1	12/15/2018 15:46	<a href="#">WG1211321</a>
Manganese	12800		1.25	25.0	5	12/16/2018 19:01	<a href="#">WG1211321</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	11400		158	500	5	12/17/2018 09:02	<a href="#">WG1211718</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		12/17/2018 09:02	<a href="#">WG1211718</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	2720		0.287	0.678	1	12/18/2018 09:53	<a href="#">WG1212060</a>
Ethane	39.7		0.296	1.29	1	12/18/2018 09:53	<a href="#">WG1212060</a>
Ethene	22.6		0.422	1.27	1	12/18/2018 09:53	<a href="#">WG1212060</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		525	12500	500	12/18/2018 04:10	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 15:14	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 15:14	<a href="#">WG1211567</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 12/13/18 08:00

L1053029

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	12/16/2018 15:14	WG1211567
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 15:14	WG1211567
Chloroethane	10.6		0.141	2.50	1	12/16/2018 15:14	WG1211567
Chloroform	0.747		0.0860	0.500	1	12/16/2018 15:14	WG1211567
Chloromethane	U		0.153	1.25	1	12/16/2018 15:14	WG1211567
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 15:14	WG1211567
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 15:14	WG1211567
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 15:14	WG1211567
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 15:14	WG1211567
Dibromomethane	U		0.117	0.500	1	12/16/2018 15:14	WG1211567
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 15:14	WG1211567
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 15:14	WG1211567
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 15:14	WG1211567
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 15:14	WG1211567
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 15:14	WG1211567
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 15:14	WG1211567
1,1-Dichloroethene	31.1		0.188	0.500	1	12/16/2018 15:14	WG1211567
cis-1,2-Dichloroethene	5210		46.6	250	500	12/18/2018 04:10	WG1212222
trans-1,2-Dichloroethene	18.2		0.152	0.500	1	12/16/2018 15:14	WG1211567
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 15:14	WG1211567
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 15:14	WG1211567
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 15:14	WG1211567
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 15:14	WG1211567
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 15:14	WG1211567
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 15:14	WG1211567
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 15:14	WG1211567
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 15:14	WG1211567
Ethylbenzene	U		0.158	0.500	1	12/16/2018 15:14	WG1211567
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 15:14	WG1211567
2-Hexanone	U		0.757	5.00	1	12/16/2018 15:14	WG1211567
n-Hexane	U		0.305	5.00	1	12/16/2018 15:14	WG1211567
Iodomethane	U		0.377	10.0	1	12/16/2018 15:14	WG1211567
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 15:14	WG1211567
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 15:14	WG1211567
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 15:14	WG1211567
Methylene Chloride	U		1.07	2.50	1	12/16/2018 15:14	WG1211567
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 15:14	WG1211567
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 15:14	WG1211567
Naphthalene	U		0.174	2.50	1	12/16/2018 15:14	WG1211567
n-Propylbenzene	0.164	U	0.162	0.500	1	12/16/2018 15:14	WG1211567
Styrene	U		0.117	0.500	1	12/16/2018 15:14	WG1211567
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 15:14	WG1211567
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 15:14	WG1211567
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 15:14	WG1211567
Tetrachloroethene	24500		99.5	250	500	12/18/2018 04:10	WG1212222
Toluene	0.717		0.412	0.500	1	12/16/2018 15:14	WG1211567
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 15:14	WG1211567
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 15:14	WG1211567
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 15:14	WG1211567
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 15:14	WG1211567
Trichloroethene	5780		76.5	250	500	12/18/2018 04:10	WG1212222
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 15:14	WG1211567
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 15:14	WG1211567
1,2,4-Trimethylbenzene	0.476	U	0.123	0.500	1	12/16/2018 15:14	WG1211567
1,2,3-Trimethylbenzene	0.182	U	0.0739	0.500	1	12/16/2018 15:14	WG1211567
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 15:14	WG1211567

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	12/16/2018 15:14	<a href="#">WG1211567</a>
Vinyl chloride	243	↓	59.0	250	500	12/18/2018 04:10	<a href="#">WG1212222</a>
Xylenes, Total	0.392	↓	0.316	1.50	1	12/16/2018 15:14	<a href="#">WG1211567</a>
(S) Toluene-d8	99.7			80.0-120		12/16/2018 15:14	<a href="#">WG1211567</a>
(S) Toluene-d8	106			80.0-120		12/18/2018 04:10	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	104			75.0-120		12/16/2018 15:14	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	88.1			75.0-120		12/18/2018 04:10	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	94.4			77.0-126		12/16/2018 15:14	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	97.8			77.0-126		12/18/2018 04:10	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1053029-09 WG1212222, WG1211567: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1053029-09 WG1212222, WG1211567: Not all compounds reportable at lower dilution.





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	379000		2710	20000	1	12/18/2018 23:51	<a href="#">WG1212038</a>

Sample Narrative:

L1053029-10 WG1212038: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	128000		260	5000	5	12/14/2018 21:10	<a href="#">WG1210790</a>
Nitrate	U		22.7	100	1	12/14/2018 20:54	<a href="#">WG1210790</a>
Sulfate	61800		77.4	5000	1	12/14/2018 20:54	<a href="#">WG1210790</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	18100		102	1000	1	12/28/2018 22:29	<a href="#">WG1216768</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	4950		15.0	100	1	12/15/2018 14:40	<a href="#">WG1211321</a>
Manganese	1450	V	0.250	5.00	1	12/15/2018 14:40	<a href="#">WG1211321</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	80000		790	2500	25	12/15/2018 20:16	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	110			78.0-120		12/15/2018 20:16	<a href="#">WG1211498</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2060		0.287	0.678	1	12/18/2018 09:56	<a href="#">WG1212060</a>
Ethane	56.1		0.296	1.29	1	12/18/2018 09:56	<a href="#">WG1212060</a>
Ethene	327		0.422	1.27	1	12/18/2018 09:56	<a href="#">WG1212060</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		2620	62500	2500	12/18/2018 04:29	<a href="#">WG1212222</a>
Acrylonitrile	U		43.6	250	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Benzene	U		4.48	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Bromobenzene	U		6.65	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Bromodichloromethane	U		4.00	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Bromochloromethane	U		7.25	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Bromoform	U		9.30	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Bromomethane	U		7.85	125	50	12/16/2018 15:33	<a href="#">WG1211567</a>
n-Butylbenzene	U		7.15	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
sec-Butylbenzene	U		6.70	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
tert-Butylbenzene	U		9.15	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Carbon disulfide	U		5.05	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Carbon tetrachloride	U		7.95	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 12/13/18 13:50

L1053029

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		7.00	25.0	50	12/16/2018 15:33	WG1211567
Chlorodibromomethane	U		6.40	25.0	50	12/16/2018 15:33	WG1211567
Chloroethane	U		7.05	125	50	12/16/2018 15:33	WG1211567
Chloroform	U		4.30	25.0	50	12/16/2018 15:33	WG1211567
Chloromethane	U		7.65	62.5	50	12/16/2018 15:33	WG1211567
2-Chlorotoluene	U		5.55	25.0	50	12/16/2018 15:33	WG1211567
4-Chlorotoluene	U		4.86	25.0	50	12/16/2018 15:33	WG1211567
1,2-Dibromo-3-Chloropropane	U		16.2	125	50	12/16/2018 15:33	WG1211567
1,2-Dibromoethane	U		9.65	25.0	50	12/16/2018 15:33	WG1211567
Dibromomethane	U		5.85	25.0	50	12/16/2018 15:33	WG1211567
1,2-Dichlorobenzene	U		5.05	25.0	50	12/16/2018 15:33	WG1211567
1,3-Dichlorobenzene	U		6.50	25.0	50	12/16/2018 15:33	WG1211567
1,4-Dichlorobenzene	U		6.05	25.0	50	12/16/2018 15:33	WG1211567
Dichlorodifluoromethane	U		6.35	125	50	12/16/2018 15:33	WG1211567
1,1-Dichloroethane	U		5.70	25.0	50	12/16/2018 15:33	WG1211567
1,2-Dichloroethane	U		5.40	25.0	50	12/16/2018 15:33	WG1211567
1,1-Dichloroethene	240		9.40	25.0	50	12/16/2018 15:33	WG1211567
cis-1,2-Dichloroethene	42100		233	1250	2500	12/18/2018 04:29	WG1212222
trans-1,2-Dichloroethene	66.6		7.60	25.0	50	12/16/2018 15:33	WG1211567
1,2-Dichloropropane	U		9.50	25.0	50	12/16/2018 15:33	WG1211567
1,1-Dichloropropene	U		6.40	25.0	50	12/16/2018 15:33	WG1211567
1,3-Dichloropropane	U		7.35	50.0	50	12/16/2018 15:33	WG1211567
cis-1,3-Dichloropropene	U		4.88	25.0	50	12/16/2018 15:33	WG1211567
trans-1,3-Dichloropropene	U		11.1	25.0	50	12/16/2018 15:33	WG1211567
trans-1,4-Dichloro-2-butene	U		12.8	250	50	12/16/2018 15:33	WG1211567
2,2-Dichloropropane	U		4.64	25.0	50	12/16/2018 15:33	WG1211567
Di-isopropyl ether	U		4.62	25.0	50	12/16/2018 15:33	WG1211567
Ethylbenzene	U		7.90	25.0	50	12/16/2018 15:33	WG1211567
Hexachloro-1,3-butadiene	U		7.85	50.0	50	12/16/2018 15:33	WG1211567
2-Hexanone	U		37.8	250	50	12/16/2018 15:33	WG1211567
n-Hexane	U		15.2	250	50	12/16/2018 15:33	WG1211567
Iodomethane	U		18.8	500	50	12/16/2018 15:33	WG1211567
Isopropylbenzene	U		6.30	25.0	50	12/16/2018 15:33	WG1211567
p-Isopropyltoluene	U		6.90	25.0	50	12/16/2018 15:33	WG1211567
2-Butanone (MEK)	U		64.0	250	50	12/16/2018 15:33	WG1211567
Methylene Chloride	U		53.5	125	50	12/16/2018 15:33	WG1211567
4-Methyl-2-pentanone (MIBK)	U		41.2	250	50	12/16/2018 15:33	WG1211567
Methyl tert-butyl ether	U		5.10	25.0	50	12/16/2018 15:33	WG1211567
Naphthalene	U		8.70	125	50	12/16/2018 15:33	WG1211567
n-Propylbenzene	U		8.10	25.0	50	12/16/2018 15:33	WG1211567
Styrene	U		5.85	25.0	50	12/16/2018 15:33	WG1211567
1,1,1,2-Tetrachloroethane	U		6.00	25.0	50	12/16/2018 15:33	WG1211567
1,1,2,2-Tetrachloroethane	U		6.50	25.0	50	12/16/2018 15:33	WG1211567
1,1,2-Trichlorotrifluoroethane	U		8.20	25.0	50	12/16/2018 15:33	WG1211567
Tetrachloroethene	97200		498	1250	2500	12/18/2018 04:29	WG1212222
Toluene	U		20.6	25.0	50	12/16/2018 15:33	WG1211567
1,2,3-Trichlorobenzene	U		8.20	25.0	50	12/16/2018 15:33	WG1211567
1,2,4-Trichlorobenzene	U		17.8	25.0	50	12/16/2018 15:33	WG1211567
1,1,1-Trichloroethane	U		4.70	25.0	50	12/16/2018 15:33	WG1211567
1,1,2-Trichloroethane	U		9.30	25.0	50	12/16/2018 15:33	WG1211567
Trichloroethene	11000		382	1250	2500	12/18/2018 04:29	WG1212222
Trichlorofluoromethane	U		6.50	125	50	12/16/2018 15:33	WG1211567
1,2,3-Trichloropropane	U		12.4	125	50	12/16/2018 15:33	WG1211567
1,2,4-Trimethylbenzene	U		6.15	25.0	50	12/16/2018 15:33	WG1211567
1,2,3-Trimethylbenzene	U		3.70	25.0	50	12/16/2018 15:33	WG1211567
1,3,5-Trimethylbenzene	U		6.20	25.0	50	12/16/2018 15:33	WG1211567

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		32.2	250	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Vinyl chloride	1380		5.90	25.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
Xylenes, Total	U		15.8	75.0	50	12/16/2018 15:33	<a href="#">WG1211567</a>
(S) Toluene-d8	105			80.0-120		12/16/2018 15:33	<a href="#">WG1211567</a>
(S) Toluene-d8	106			80.0-120		12/18/2018 04:29	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	109			75.0-120		12/16/2018 15:33	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	89.4			75.0-120		12/18/2018 04:29	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	91.8			77.0-126		12/16/2018 15:33	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	95.8			77.0-126		12/18/2018 04:29	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1053029-10 WG1212222, WG1211567: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1053029-10 WG1212222, WG1211567: Not all compounds reportable at lower dilution.



Method Blank (MB)

(MB) R3369501-1 12/18/18 20:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3050	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1051765-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1051765-01 12/18/18 21:17 • (DUP) R3369501-2 12/18/18 21:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	295000	295000	1	0.179		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1053029-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1053029-10 12/18/18 23:51 • (DUP) R3369501-4 12/18/18 23:59

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	379000	379000	1	0.0530		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3369501-3 12/18/18 22:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	97900	97.9	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3368521-1 12/14/18 10:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1052855-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1052855-01 12/14/18 14:45 • (DUP) R3368521-3 12/14/18 15:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	80500	80700	1	0.239		15
Nitrate	ND	0.000	1	0.000		15
Sulfate	44600	44700	1	0.261		15

L1053041-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1053041-02 12/14/18 21:40 • (DUP) R3368521-6 12/14/18 21:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	8090	8120	1	0.360		15
Nitrate	1120	1140	1	1.50		15
Sulfate	352	347	1	1.35	↓	15

Laboratory Control Sample (LCS)

(LCS) R3368521-2 12/14/18 11:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	38600	96.6	80.0-120	
Nitrate	8000	7890	98.6	80.0-120	
Sulfate	40000	39200	98.0	80.0-120	



L1052855-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1052855-01 12/14/18 14:45 • (MS) R3368521-4 12/14/18 15:15 • (MSD) R3368521-5 12/14/18 15:31

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	80500	126000	127000	92.0	92.9	1	80.0-120	E	E	0.355	15
Nitrate	5000	ND	4650	4670	93.0	93.4	1	80.0-120			0.373	15
Sulfate	50000	44600	92300	92700	95.4	96.3	1	80.0-120			0.478	15

L1053041-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1053041-02 12/14/18 21:40 • (MS) R3368521-7 12/14/18 22:11

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	8090	56400	96.7	1	80.0-120	
Nitrate	5000	1120	5830	94.1	1	80.0-120	
Sulfate	50000	352	47400	94.1	1	80.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3368945-1 12/15/18 08:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	136	↓	51.9	1000
Sulfate	U		77.4	5000

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1053354-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1053354-02 12/15/18 10:57 • (DUP) R3368945-3 12/15/18 11:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	35500	35700	1	0.539		15

L1053526-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1053526-02 12/15/18 20:03 • (DUP) R3368945-6 12/15/18 20:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	3440	3490	1	1.18		15

Laboratory Control Sample (LCS)

(LCS) R3368945-2 12/15/18 08:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39700	99.2	80.0-120	
Sulfate	40000	40300	101	80.0-120	

L1053354-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053354-02 12/15/18 10:57 • (MS) R3368945-4 12/15/18 11:19 • (MSD) R3368945-5 12/15/18 11:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50000	35500	85800	84900	100	98.7	1	80.0-120			1.05	15



L1053526-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1053526-02 12/15/18 20:03 • (MS) R3368945-7 12/15/18 20:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50000	3440	53400	99.8	1	80.0-120	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3372254-1 12/28/18 08:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	U		102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1052793-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1052793-01 12/28/18 11:54 • (DUP) R3372254-3 12/28/18 12:17

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1760	1790	1	1.69		20

L1053005-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1053005-08 12/28/18 17:28 • (DUP) R3372254-6 12/28/18 17:50

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1880	1990	1	5.65		20

Laboratory Control Sample (LCS)

(LCS) R3372254-2 12/28/18 09:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74900	99.9	85.0-115	

L1053005-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053005-05 12/28/18 15:27 • (MS) R3372254-4 12/28/18 15:52 • (MSD) R3372254-5 12/28/18 16:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1820	51300	50300	99.0	96.9	1	80.0-120			2.11	20

L1053029-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053029-07 12/28/18 20:11 • (MS) R3372254-7 12/28/18 20:38 • (MSD) R3372254-8 12/28/18 21:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	75100	129000	129000	108	107	1	80.0-120	E	E	0.465	20



Method Blank (MB)

(MB) R3368573-1 12/15/18 14:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368573-2 12/15/18 14:31 • (LCSD) R3368573-3 12/15/18 14:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5200	5270	104	105	80.0-120			1.40	20
Manganese	50.0	50.5	51.1	101	102	80.0-120			1.15	20

5 Sr

6 Qc

L1053029-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053029-10 12/15/18 14:40 • (MS) R3368573-5 12/15/18 14:48 • (MSD) R3368573-6 12/15/18 14:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	4950	9880	9810	98.6	97.2	1	75.0-125			0.721	20
Manganese	50.0	1450	1480	1470	60.6	49.7	1	75.0-125	V	V	0.367	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3369131-1 12/18/18 11:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	67.3	↓	15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3369131-2 12/18/18 11:05 • (LCSD) R3369131-3 12/18/18 11:09

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Iron	5000	5110	4900	102	98.0	80.0-120			4.21	20
Manganese	50.0	50.3	49.9	101	99.8	80.0-120			0.709	20

5 Sr

6 Qc

L1053029-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053029-08 12/18/18 11:14 • (MS) R3369131-5 12/18/18 11:23 • (MSD) R3369131-6 12/18/18 11:28

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	544	5500	5450	99.1	98.2	1	75.0-125			0.810	20
Manganese	50.0	278	333	335	109	113	1	75.0-125			0.547	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3368595-3 12/15/18 14:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368595-1 12/15/18 13:48 • (LCSD) R3368595-2 12/15/18 14:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5920	5860	108	107	70.0-124			0.937	20
(S) a,a,a-Trifluorotoluene(FID)				99.9	97.9	78.0-120				

L1053029-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053029-04 12/15/18 18:09 • (MS) R3368595-4 12/15/18 22:46 • (MSD) R3368595-5 12/15/18 23:08

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	U	7330	5710	133	104	1	10.0-155		J3	24.9	21
(S) a,a,a-Trifluorotoluene(FID)					97.4	99.8		78.0-120				



Method Blank (MB)

(MB) R3368736-3 12/17/18 00:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368736-1 12/16/18 23:04 • (LCSD) R3368736-2 12/16/18 23:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5600	5560	102	101	70.0-124			0.660	20
(S) a,a,a-Trifluorotoluene(FID)				101	99.1	78.0-120				

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3369101-1 12/18/18 09:24

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1051929-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1051929-05 12/18/18 10:15 • (DUP) R3369101-2 12/18/18 10:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	2980	2950	1	0.972		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1052013-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1052013-01 12/18/18 10:36 • (DUP) R3369101-3 12/18/18 10:52

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3369101-4 12/18/18 10:54 • (LCSD) R3369101-5 12/18/18 10:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	76.7	74.9	113	110	85.0-115			2.39	20
Ethane	129	122	121	94.3	93.7	85.0-115			0.610	20
Ethene	127	121	120	95.3	94.7	85.0-115			0.660	20



Method Blank (MB)

(MB) R3368961-3 12/16/18 11:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3368961-3 12/16/18 11:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	98.0			75.0-120
(S) 4-Bromofluorobenzene	98.3			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368961-1 12/16/18 10:50 • (LCSD) R3368961-2 12/16/18 11:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	125	101	109	80.6	87.1	55.0-149			7.79	20
Benzene	25.0	23.6	23.5	94.4	94.2	70.0-123			0.298	20
Bromobenzene	25.0	22.9	22.8	91.5	91.1	73.0-121			0.383	20
Bromodichloromethane	25.0	23.7	23.6	94.7	94.6	75.0-120			0.0741	20
Bromochloromethane	25.0	25.4	25.3	102	101	76.0-122			0.355	20
Bromoform	25.0	24.9	24.9	99.6	99.5	68.0-132			0.0793	20
Bromomethane	25.0	25.9	26.2	103	105	10.0-160			1.34	25
n-Butylbenzene	25.0	24.2	24.0	96.6	96.1	73.0-125			0.545	20
sec-Butylbenzene	25.0	23.8	23.5	95.4	94.2	75.0-125			1.28	20
tert-Butylbenzene	25.0	23.8	23.6	95.1	94.2	76.0-124			0.955	20
Carbon disulfide	25.0	24.9	25.4	99.7	101	61.0-128			1.69	20
Carbon tetrachloride	25.0	24.3	23.9	97.3	95.7	68.0-126			1.71	20
Chlorobenzene	25.0	25.5	25.3	102	101	80.0-121			0.906	20
Chlorodibromomethane	25.0	25.3	25.3	101	101	77.0-125			0.149	20
Chloroethane	25.0	25.3	23.7	101	94.8	47.0-150			6.38	20
Chloroform	25.0	23.6	23.6	94.3	94.2	73.0-120			0.0644	20
Chloromethane	25.0	25.0	24.1	99.8	96.5	41.0-142			3.37	20
2-Chlorotoluene	25.0	23.2	23.2	92.9	92.9	76.0-123			0.00176	20
4-Chlorotoluene	25.0	23.2	22.8	92.8	91.2	75.0-122			1.66	20
1,2-Dibromo-3-Chloropropane	25.0	22.8	24.1	91.1	96.6	58.0-134			5.90	20
1,2-Dibromoethane	25.0	25.0	24.9	100	99.6	80.0-122			0.550	20
Dibromomethane	25.0	24.4	24.4	97.6	97.6	80.0-120			0.0523	20
1,2-Dichlorobenzene	25.0	23.9	24.3	95.6	97.3	79.0-121			1.69	20
1,3-Dichlorobenzene	25.0	23.8	23.7	95.2	94.8	79.0-120			0.380	20
1,4-Dichlorobenzene	25.0	24.3	24.3	97.3	97.0	79.0-120			0.252	20
Dichlorodifluoromethane	25.0	28.9	28.9	116	116	51.0-149			0.0230	20
1,1-Dichloroethane	25.0	24.8	24.3	99.1	97.3	70.0-126			1.89	20
1,2-Dichloroethane	25.0	24.0	24.3	96.2	97.4	70.0-128			1.25	20
1,1-Dichloroethene	25.0	26.0	26.4	104	106	71.0-124			1.50	20
cis-1,2-Dichloroethene	25.0	24.4	24.4	97.6	97.7	73.0-120			0.0769	20
trans-1,2-Dichloroethene	25.0	24.3	24.3	97.2	97.4	73.0-120			0.198	20
1,2-Dichloropropane	25.0	24.8	24.3	99.1	97.1	77.0-125			1.97	20
1,1-Dichloropropene	25.0	25.1	25.0	100	99.8	74.0-126			0.438	20
1,3-Dichloropropane	25.0	25.3	25.1	101	100	80.0-120			0.785	20
cis-1,3-Dichloropropene	25.0	25.9	25.6	104	102	80.0-123			1.35	20
trans-1,3-Dichloropropene	25.0	25.6	25.1	102	100	78.0-124			2.07	20
trans-1,4-Dichloro-2-butene	25.0	22.8	22.3	91.1	89.1	33.0-144			2.22	20
2,2-Dichloropropane	25.0	23.5	22.8	94.1	91.3	58.0-130			3.04	20
Di-isopropyl ether	25.0	24.1	23.5	96.4	93.8	58.0-138			2.65	20
Ethylbenzene	25.0	25.3	24.6	101	98.5	79.0-123			2.84	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368961-1 12/16/18 10:50 • (LCSD) R3368961-2 12/16/18 11:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	25.0	24.3	23.9	97.1	95.8	54.0-138			1.42	20
2-Hexanone	125	119	115	95.3	91.8	67.0-149			3.78	20
n-Hexane	25.0	25.8	26.3	103	105	57.0-133			2.19	20
Iodomethane	125	127	126	102	101	33.0-147			0.981	26
Isopropylbenzene	25.0	23.1	23.0	92.5	92.1	76.0-127			0.379	20
p-Isopropyltoluene	25.0	24.4	24.3	97.7	97.0	76.0-125			0.648	20
2-Butanone (MEK)	125	123	114	98.7	91.5	44.0-160			7.56	20
Methylene Chloride	25.0	23.8	23.6	95.3	94.6	67.0-120			0.735	20
4-Methyl-2-pentanone (MIBK)	125	117	115	93.8	92.2	68.0-142			1.76	20
Methyl tert-butyl ether	25.0	25.0	23.8	100	95.2	68.0-125			4.98	20
Naphthalene	25.0	21.9	23.3	87.5	93.3	54.0-135			6.41	20
n-Propylbenzene	25.0	23.4	23.1	93.6	92.2	77.0-124			1.49	20
Styrene	25.0	23.9	23.5	95.6	94.0	73.0-130			1.68	20
1,1,1,2-Tetrachloroethane	25.0	25.4	24.9	102	99.5	75.0-125			2.17	20
1,1,2,2-Tetrachloroethane	25.0	22.4	22.4	89.5	89.7	65.0-130			0.238	20
1,1,2-Trichlorotrifluoroethane	25.0	25.9	25.6	104	102	69.0-132			1.14	20
Tetrachloroethene	25.0	25.2	24.8	101	99.3	72.0-132			1.53	20
Toluene	25.0	23.6	23.5	94.5	93.9	79.0-120			0.549	20
1,2,3-Trichlorobenzene	25.0	22.4	23.5	89.5	94.1	50.0-138			4.99	20
1,2,4-Trichlorobenzene	25.0	22.6	23.9	90.5	95.5	57.0-137			5.47	20
1,1,1-Trichloroethane	25.0	23.8	23.5	95.4	93.8	73.0-124			1.66	20
1,1,2-Trichloroethane	25.0	23.6	23.7	94.5	94.8	80.0-120			0.371	20
Trichloroethene	25.0	25.2	25.0	101	100	78.0-124			0.805	20
Trichlorofluoromethane	25.0	26.8	26.1	107	104	59.0-147			2.68	20
1,2,3-Trichloropropane	25.0	21.6	22.2	86.5	88.8	73.0-130			2.63	20
1,2,4-Trimethylbenzene	25.0	23.2	22.9	92.7	91.5	76.0-121			1.41	20
1,2,3-Trimethylbenzene	25.0	23.7	23.8	94.6	95.4	77.0-120			0.824	20
1,3,5-Trimethylbenzene	25.0	23.1	23.2	92.4	92.7	76.0-122			0.275	20
Vinyl acetate	125	117	116	93.9	93.1	11.0-160			0.857	20
Vinyl chloride	25.0	26.2	25.4	105	102	67.0-131			2.81	20
Xylenes, Total	75.0	75.6	73.7	101	98.3	79.0-123			2.55	20
(S) Toluene-d8				103	102	80.0-120				
(S) Dibromofluoromethane				101	101	75.0-120				
(S) 4-Bromofluorobenzene				96.5	95.5	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3369057-2 12/17/18 22:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	110			80.0-120
(S) Dibromofluoromethane	87.0			75.0-120
(S) 4-Bromofluorobenzene	98.0			77.0-126

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R3369057-1 12/17/18 21:04

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	125	113	90.7	19.0-160	
cis-1,2-Dichloroethene	25.0	22.2	88.8	73.0-120	
trans-1,2-Dichloroethene	25.0	21.7	86.9	73.0-120	
Tetrachloroethene	25.0	29.6	118	72.0-132	
Trichloroethene	25.0	25.0	99.8	78.0-124	
Vinyl chloride	25.0	25.3	101	67.0-131	
(S) Toluene-d8			104	80.0-120	
(S) Dibromofluoromethane			84.1	75.0-120	
(S) 4-Bromofluorobenzene			96.7	77.0-126	

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
V	The sample concentration is too high to evaluate accurate spike recoveries.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

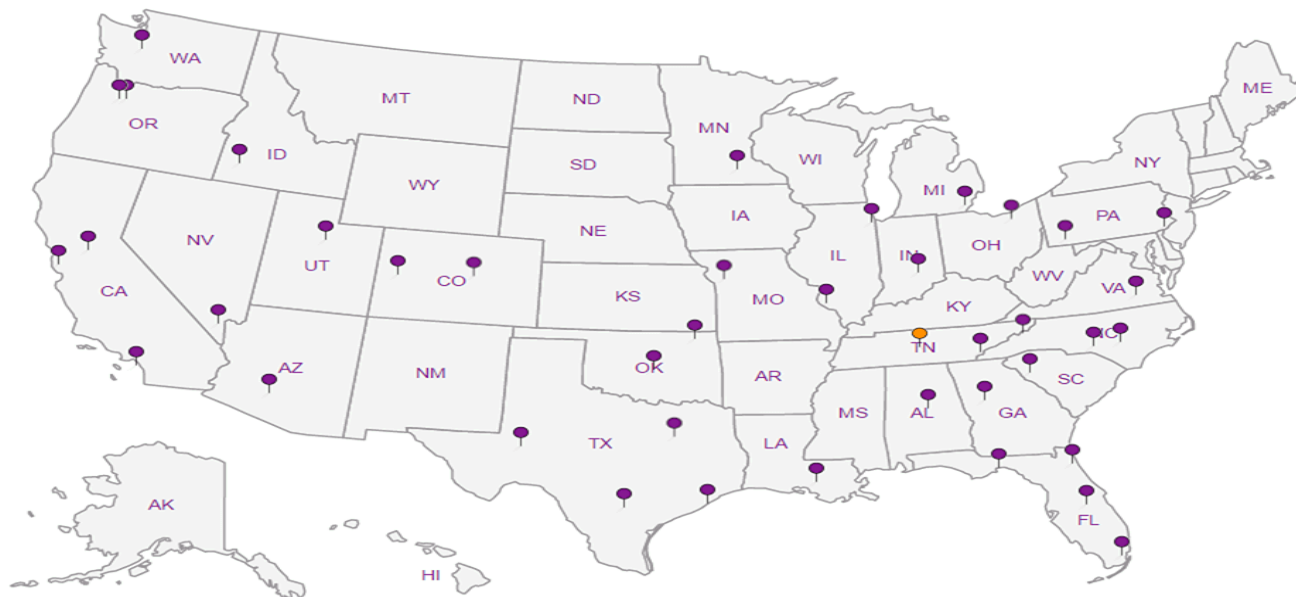
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# 1053029

**F095**

Accnum: PESENVSWA

Template: T143817

Prelogin: P685297

TSR: 110 - Brian Ford

PB:

Shipped Via:

Remarks Sample # (lab only)

Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com;

Project Description: American Linen

City/State Collected: Seattle WA

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.601

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
B. Hecht / A. Witt

Site/Facility ID #

P.O. #

Collected by (signature):  
BH

Rush? (Lab MUST Be Notified)  
Same Day Five Day  
Next Day 5 Day (Rad Only)  
Two Day 10 Day (Rad Only)  
Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N  Y

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Analysis / Container / Preservative	Chain of Custody
MW-150-1218	Grab	GW	55'	12/12/18	1045	6	NWTPHGX 40m/Amb HCl	
MW-139-1218		GW	75'		1140	6	VOCs (V8260LLC) 40m/Amb-HCl	
EQ-1218		GW	NA	X	1530	6	NO3, Cl, SO4	
MW-136-121318			90'	12/13/18	0920	6	Alkalinity	
W-MW-01-121318			75'		1100	6	TOC	
MW-104-121318			124'		1300	6	Total Fe & Mn by 6020	
MW-149-121318			40'		0910	11	low level RSK 175 for Methane, Ethane	
MW-132-121318			75'		1145	11		
MW-904-121318			60'		0800	11		
MW-135-121318	X	X	85'	X	1350	11		

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks: RAD SCREEN: <0.5 mR/hr  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_  
Tracking # 4686 6469 8478

Sample Receipt Checklist

COC Seal Present/Intact:	Y	N
COC Signed/Accurate:	Y	N
Bottles arrive intact:	Y	N
Correct bottles used:	Y	N
Sufficient volume sent:	Y	N
VOA Zero Headpace:	Y	N
Preservation Correct/Checked:	Y	N

Relinquished by: (Signature) [Signature]  
Date: 12/13/18  
Time: 1600

Received by: (Signature) [Signature]  
Trip Blank Received: 2  
Bottles Received: 3.6 + 0.3 = 3.9 > 3.0  
Date: 12/14/18  
Time: 845

If preservation required by Login: Date/Time  
Hold:  
Condition: NCF / OK



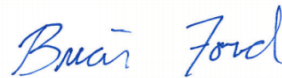
December 18, 2018

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1053394  
Samples Received: 12/14/2018  
Project Number: 1358.001.01.003  
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b><sup>1</sup>Cp</b>
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b><sup>2</sup>Tc</b>
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b><sup>3</sup>Ss</b>
MW-131-121218 L1053394-01	<b>5</b>	
MW-137-121218 L1053394-02	<b>7</b>	<b><sup>4</sup>Cn</b>
W-MW-02-121218 L1053394-03	<b>9</b>	<b><sup>5</sup>Sr</b>
MW-134-121218 L1053394-04	<b>11</b>	
MW-133-121218 L1053394-05	<b>13</b>	<b><sup>6</sup>Qc</b>
MW-141-121218 L1053394-06	<b>15</b>	
<b>Qc: Quality Control Summary</b>	<b>17</b>	<b><sup>7</sup>Gl</b>
Volatile Organic Compounds (GC) by Method NWTPHGX	<b>17</b>	
Volatile Organic Compounds (GC/MS) by Method 8260C	<b>19</b>	<b><sup>8</sup>Al</b>
<b>Gl: Glossary of Terms</b>	<b>24</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>25</b>	<b><sup>9</sup>Sc</b>
<b>Sc: Sample Chain of Custody</b>	<b>26</b>	



# SAMPLE SUMMARY



## MW-131-121218 L1053394-01 GW

Collected by  
AW/BH/KZ  
Collected date/time  
12/12/18 12:45  
Received date/time  
12/14/18 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 20:38	12/15/18 20:38	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 16:48	12/16/18 16:48	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/18/18 00:40	12/18/18 00:40	ACG

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-137-121218 L1053394-02 GW

Collected by  
AW/BH/KZ  
Collected date/time  
12/12/18 14:45  
Received date/time  
12/14/18 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 20:59	12/15/18 20:59	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 17:07	12/16/18 17:07	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/18/18 01:35	12/18/18 01:35	ACG

## W-MW-02-121218 L1053394-03 GW

Collected by  
AW/BH/KZ  
Collected date/time  
12/12/18 14:25  
Received date/time  
12/14/18 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211718	5	12/17/18 09:23	12/17/18 09:23	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 17:26	12/16/18 17:26	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/18/18 01:54	12/18/18 01:54	ACG

## MW-134-121218 L1053394-04 GW

Collected by  
AW/BH/KZ  
Collected date/time  
12/12/18 12:50  
Received date/time  
12/14/18 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211718	1	12/17/18 09:44	12/17/18 09:44	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 17:44	12/16/18 17:44	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/18/18 02:13	12/18/18 02:13	ACG

## MW-133-121218 L1053394-05 GW

Collected by  
AW/BH/KZ  
Collected date/time  
12/12/18 10:00  
Received date/time  
12/14/18 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 22:04	12/15/18 22:04	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 18:03	12/16/18 18:03	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/18/18 02:33	12/18/18 02:33	ACG

## MW-141-121218 L1053394-06 GW

Collected by  
AW/BH/KZ  
Collected date/time  
12/12/18 11:20  
Received date/time  
12/14/18 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1211498	1	12/15/18 22:25	12/15/18 22:25	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211567	1	12/16/18 18:22	12/16/18 18:22	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212222	1	12/18/18 02:52	12/18/18 02:52	ACG



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 20:38	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		12/15/2018 20:38	<a href="#">WG1211498</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	8.19	J	1.05	25.0	1	12/18/2018 00:40	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Chloromethane	6.51		0.153	1.25	1	12/16/2018 16:48	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	1.20		0.0933	0.500	1	12/18/2018 00:40	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
2-Butanone (MEK)	3.89	J	1.28	5.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 00:40	<a href="#">WG1212222</a>
Toluene	U		0.412	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Trichloroethene	0.172	U	0.153	0.500	1	12/18/2018 00:40	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Vinyl chloride	1.39		0.118	0.500	1	12/16/2018 16:48	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 16:48	<a href="#">WG1211567</a>
(S) Toluene-d8	101			80.0-120		12/16/2018 16:48	<a href="#">WG1211567</a>
(S) Toluene-d8	105			80.0-120		12/18/2018 00:40	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	111			75.0-120		12/16/2018 16:48	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	91.3			75.0-120		12/18/2018 00:40	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	90.4			77.0-126		12/16/2018 16:48	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		12/18/2018 00:40	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 20:59	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		12/15/2018 20:59	<a href="#">WG1211498</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.62	J	1.05	25.0	1	12/18/2018 01:35	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 17:07	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	0.437	J	0.0933	0.500	1	12/18/2018 01:35	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 01:35	<a href="#">WG1212222</a>
Toluene	U		0.412	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Trichloroethene	U		0.153	0.500	1	12/18/2018 01:35	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Vinyl chloride	0.357	U	0.118	0.500	1	12/16/2018 17:07	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 17:07	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/16/2018 17:07	<a href="#">WG1211567</a>
(S) Toluene-d8	108			80.0-120		12/18/2018 01:35	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	109			75.0-120		12/16/2018 17:07	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	89.1			75.0-120		12/18/2018 01:35	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	89.1			77.0-126		12/16/2018 17:07	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	95.1			77.0-126		12/18/2018 01:35	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		158	500	5	12/17/2018 09:23	<a href="#">WG1211718</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		12/17/2018 09:23	<a href="#">WG1211718</a>

Sample Narrative:

L1053394-03 WG1211718: Lowest possible dilution doe to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.12	J	1.05	25.0	1	12/18/2018 01:54	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 17:26	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	1.80		0.0933	0.500	1	12/18/2018 01:54	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	0.463	J	0.152	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 17:26	<a href="#">WG1211567</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 12/12/18 14:25

L1053394

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Methylene Chloride	U		1.07	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 01:54	<a href="#">WG1212222</a>
Toluene	1.05		0.412	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Trichloroethene	U		0.153	0.500	1	12/18/2018 01:54	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Vinyl chloride	2.30		0.118	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
(S) Toluene-d8	106			80.0-120		12/16/2018 17:26	<a href="#">WG1211567</a>
(S) Toluene-d8	107			80.0-120		12/18/2018 01:54	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	106			75.0-120		12/16/2018 17:26	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	89.4			75.0-120		12/18/2018 01:54	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	88.5			77.0-126		12/16/2018 17:26	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	98.3			77.0-126		12/18/2018 01:54	<a href="#">WG1212222</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/17/2018 09:44	<a href="#">WG1211718</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		12/17/2018 09:44	<a href="#">WG1211718</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	12/18/2018 02:13	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 17:44	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	0.259	J	0.0933	0.500	1	12/18/2018 02:13	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 02:13	<a href="#">WG1212222</a>
Toluene	U		0.412	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Trichloroethene	U		0.153	0.500	1	12/18/2018 02:13	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Vinyl chloride	21.9		0.118	0.500	1	12/16/2018 17:44	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 17:44	<a href="#">WG1211567</a>
(S) Toluene-d8	106			80.0-120		12/16/2018 17:44	<a href="#">WG1211567</a>
(S) Toluene-d8	107			80.0-120		12/18/2018 02:13	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	105			75.0-120		12/16/2018 17:44	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	88.2			75.0-120		12/18/2018 02:13	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	88.9			77.0-126		12/16/2018 17:44	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	95.6			77.0-126		12/18/2018 02:13	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 12/12/18 10:00

L1053394

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 22:04	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120		12/15/2018 22:04	<a href="#">WG1211498</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.76	J	1.05	25.0	1	12/18/2018 02:33	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chloromethane	0.233	J	0.153	1.25	1	12/16/2018 18:03	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1-Dichloroethene	1.67		0.188	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	7.88		0.0933	0.500	1	12/18/2018 02:33	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	0.454	J	0.152	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Naphthalene	0.251	J	0.174	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Tetrachloroethene	1.71		0.199	0.500	1	12/18/2018 02:33	<a href="#">WG1212222</a>
Toluene	U		0.412	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Trichloroethene	2.75		0.153	0.500	1	12/18/2018 02:33	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Vinyl chloride	5.95		0.118	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/16/2018 18:03	<a href="#">WG1211567</a>
(S) Toluene-d8	106			80.0-120		12/18/2018 02:33	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	96.1			75.0-120		12/16/2018 18:03	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	87.9			75.0-120		12/18/2018 02:33	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	88.5			77.0-126		12/16/2018 18:03	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		12/18/2018 02:33	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 22:25	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		12/15/2018 22:25	<a href="#">WG1211498</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.11	J	1.05	25.0	1	12/18/2018 02:52	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 18:22	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	1.46		0.0933	0.500	1	12/18/2018 02:52	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 02:52	<a href="#">WG1212222</a>
Toluene	U		0.412	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Trichloroethene	U		0.153	0.500	1	12/18/2018 02:52	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Vinyl chloride	0.520		0.118	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/16/2018 18:22	<a href="#">WG1211567</a>
(S) Toluene-d8	108			80.0-120		12/18/2018 02:52	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	107			75.0-120		12/16/2018 18:22	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	91.6			75.0-120		12/18/2018 02:52	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	87.8			77.0-126		12/16/2018 18:22	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.1			77.0-126		12/18/2018 02:52	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3368595-3 12/15/18 14:52

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368595-1 12/15/18 13:48 • (LCSD) R3368595-2 12/15/18 14:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5920	5860	108	107	70.0-124			0.937	20
(S) a,a,a-Trifluorotoluene(FID)				99.9	97.9	78.0-120				

L1053029-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053029-04 12/15/18 18:09 • (MS) R3368595-4 12/15/18 22:46 • (MSD) R3368595-5 12/15/18 23:08

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	U	7330	5710	133	104	1	10.0-155		J3	24.9	21
(S) a,a,a-Trifluorotoluene(FID)					97.4	99.8		78.0-120				



Method Blank (MB)

(MB) R3368736-3 12/17/18 00:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368736-1 12/16/18 23:04 • (LCSD) R3368736-2 12/16/18 23:25

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5600	5560	102	101	70.0-124			0.660	20
(S) a,a,a-Trifluorotoluene(FID)				101	99.1	78.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3368961-3 12/16/18 11:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3368961-3 12/16/18 11:47

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	98.0			75.0-120
(S) 4-Bromofluorobenzene	98.3			77.0-126

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368961-1 12/16/18 10:50 • (LCSD) R3368961-2 12/16/18 11:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acrylonitrile	125	101	109	80.6	87.1	55.0-149			7.79	20
Benzene	25.0	23.6	23.5	94.4	94.2	70.0-123			0.298	20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368961-1 12/16/18 10:50 • (LCSD) R3368961-2 12/16/18 11:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromobenzene	25.0	22.9	22.8	91.5	91.1	73.0-121			0.383	20
Bromodichloromethane	25.0	23.7	23.6	94.7	94.6	75.0-120			0.0741	20
Bromochloromethane	25.0	25.4	25.3	102	101	76.0-122			0.355	20
Bromoform	25.0	24.9	24.9	99.6	99.5	68.0-132			0.0793	20
Bromomethane	25.0	25.9	26.2	103	105	10.0-160			1.34	25
n-Butylbenzene	25.0	24.2	24.0	96.6	96.1	73.0-125			0.545	20
sec-Butylbenzene	25.0	23.8	23.5	95.4	94.2	75.0-125			1.28	20
tert-Butylbenzene	25.0	23.8	23.6	95.1	94.2	76.0-124			0.955	20
Carbon disulfide	25.0	24.9	25.4	99.7	101	61.0-128			1.69	20
Carbon tetrachloride	25.0	24.3	23.9	97.3	95.7	68.0-126			1.71	20
Chlorobenzene	25.0	25.5	25.3	102	101	80.0-121			0.906	20
Chlorodibromomethane	25.0	25.3	25.3	101	101	77.0-125			0.149	20
Chloroethane	25.0	25.3	23.7	101	94.8	47.0-150			6.38	20
Chloroform	25.0	23.6	23.6	94.3	94.2	73.0-120			0.0644	20
Chloromethane	25.0	25.0	24.1	99.8	96.5	41.0-142			3.37	20
2-Chlorotoluene	25.0	23.2	23.2	92.9	92.9	76.0-123			0.00176	20
4-Chlorotoluene	25.0	23.2	22.8	92.8	91.2	75.0-122			1.66	20
1,2-Dibromo-3-Chloropropane	25.0	22.8	24.1	91.1	96.6	58.0-134			5.90	20
1,2-Dibromoethane	25.0	25.0	24.9	100	99.6	80.0-122			0.550	20
Dibromomethane	25.0	24.4	24.4	97.6	97.6	80.0-120			0.0523	20
1,2-Dichlorobenzene	25.0	23.9	24.3	95.6	97.3	79.0-121			1.69	20
1,3-Dichlorobenzene	25.0	23.8	23.7	95.2	94.8	79.0-120			0.380	20
1,4-Dichlorobenzene	25.0	24.3	24.3	97.3	97.0	79.0-120			0.252	20
Dichlorodifluoromethane	25.0	28.9	28.9	116	116	51.0-149			0.0230	20
1,1-Dichloroethane	25.0	24.8	24.3	99.1	97.3	70.0-126			1.89	20
1,2-Dichloroethane	25.0	24.0	24.3	96.2	97.4	70.0-128			1.25	20
1,1-Dichloroethene	25.0	26.0	26.4	104	106	71.0-124			1.50	20
trans-1,2-Dichloroethene	25.0	24.3	24.3	97.2	97.4	73.0-120			0.198	20
1,2-Dichloropropane	25.0	24.8	24.3	99.1	97.1	77.0-125			1.97	20
1,1-Dichloropropene	25.0	25.1	25.0	100	99.8	74.0-126			0.438	20
1,3-Dichloropropane	25.0	25.3	25.1	101	100	80.0-120			0.785	20
cis-1,3-Dichloropropene	25.0	25.9	25.6	104	102	80.0-123			1.35	20
trans-1,3-Dichloropropene	25.0	25.6	25.1	102	100	78.0-124			2.07	20
trans-1,4-Dichloro-2-butene	25.0	22.8	22.3	91.1	89.1	33.0-144			2.22	20
2,2-Dichloropropane	25.0	23.5	22.8	94.1	91.3	58.0-130			3.04	20
Di-isopropyl ether	25.0	24.1	23.5	96.4	93.8	58.0-138			2.65	20
Ethylbenzene	25.0	25.3	24.6	101	98.5	79.0-123			2.84	20
Hexachloro-1,3-butadiene	25.0	24.3	23.9	97.1	95.8	54.0-138			1.42	20
2-Hexanone	125	119	115	95.3	91.8	67.0-149			3.78	20
n-Hexane	25.0	25.8	26.3	103	105	57.0-133			2.19	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368961-1 12/16/18 10:50 • (LCSD) R3368961-2 12/16/18 11:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Iodomethane	125	127	126	102	101	33.0-147			0.981	26
Isopropylbenzene	25.0	23.1	23.0	92.5	92.1	76.0-127			0.379	20
p-Isopropyltoluene	25.0	24.4	24.3	97.7	97.0	76.0-125			0.648	20
2-Butanone (MEK)	125	123	114	98.7	91.5	44.0-160			7.56	20
Methylene Chloride	25.0	23.8	23.6	95.3	94.6	67.0-120			0.735	20
4-Methyl-2-pentanone (MIBK)	125	117	115	93.8	92.2	68.0-142			1.76	20
Methyl tert-butyl ether	25.0	25.0	23.8	100	95.2	68.0-125			4.98	20
Naphthalene	25.0	21.9	23.3	87.5	93.3	54.0-135			6.41	20
n-Propylbenzene	25.0	23.4	23.1	93.6	92.2	77.0-124			1.49	20
Styrene	25.0	23.9	23.5	95.6	94.0	73.0-130			1.68	20
1,1,1,2-Tetrachloroethane	25.0	25.4	24.9	102	99.5	75.0-125			2.17	20
1,1,2,2-Tetrachloroethane	25.0	22.4	22.4	89.5	89.7	65.0-130			0.238	20
1,1,2-Trichlorotrifluoroethane	25.0	25.9	25.6	104	102	69.0-132			1.14	20
Toluene	25.0	23.6	23.5	94.5	93.9	79.0-120			0.549	20
1,2,3-Trichlorobenzene	25.0	22.4	23.5	89.5	94.1	50.0-138			4.99	20
1,2,4-Trichlorobenzene	25.0	22.6	23.9	90.5	95.5	57.0-137			5.47	20
1,1,1-Trichloroethane	25.0	23.8	23.5	95.4	93.8	73.0-124			1.66	20
1,1,2-Trichloroethane	25.0	23.6	23.7	94.5	94.8	80.0-120			0.371	20
Trichlorofluoromethane	25.0	26.8	26.1	107	104	59.0-147			2.68	20
1,2,3-Trichloropropane	25.0	21.6	22.2	86.5	88.8	73.0-130			2.63	20
1,2,4-Trimethylbenzene	25.0	23.2	22.9	92.7	91.5	76.0-121			1.41	20
1,2,3-Trimethylbenzene	25.0	23.7	23.8	94.6	95.4	77.0-120			0.824	20
1,3,5-Trimethylbenzene	25.0	23.1	23.2	92.4	92.7	76.0-122			0.275	20
Vinyl acetate	125	117	116	93.9	93.1	11.0-160			0.857	20
Vinyl chloride	25.0	26.2	25.4	105	102	67.0-131			2.81	20
Xylenes, Total	75.0	75.6	73.7	101	98.3	79.0-123			2.55	20
(S) Toluene-d8				103	102	80.0-120				
(S) Dibromofluoromethane				101	101	75.0-120				
(S) 4-Bromofluorobenzene				96.5	95.5	77.0-126				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3369057-2 12/17/18 22:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Acetone	U		1.05	25.0
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
(S) Toluene-d8	110			80.0-120
(S) Dibromofluoromethane	87.0			75.0-120
(S) 4-Bromofluorobenzene	98.0			77.0-126

Laboratory Control Sample (LCS)

(LCS) R3369057-1 12/17/18 21:04

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Acetone	125	113	90.7	19.0-160	
cis-1,2-Dichloroethene	25.0	22.2	88.8	73.0-120	
Tetrachloroethene	25.0	29.6	118	72.0-132	
Trichloroethene	25.0	25.0	99.8	78.0-124	
(S) Toluene-d8			104	80.0-120	
(S) Dibromofluoromethane			84.1	75.0-120	
(S) 4-Bromofluorobenzene			96.7	77.0-126	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

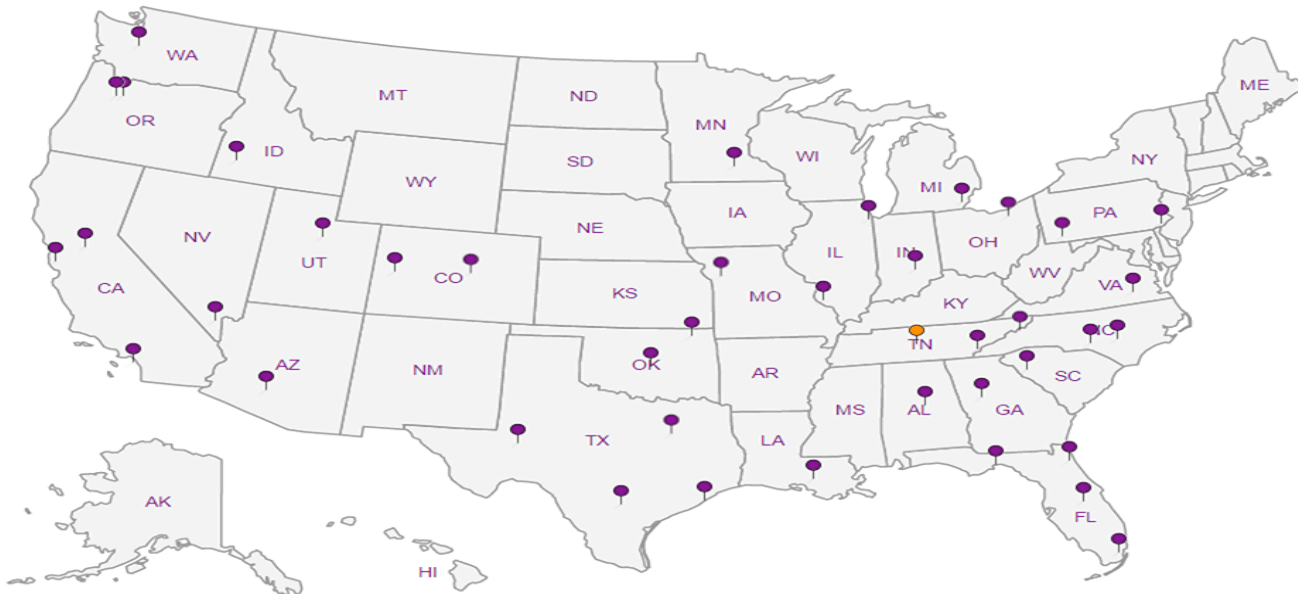
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres-  
Chk

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to: **Brian O'Neal**  
~~Karsten Springstead~~

Email To: ~~kspringstead@pesenv.com~~  
~~mehal@pesenv.com~~ **BONEAL@PESENV.COM**

Project Description: **MVSC American Linen**

City/State Collected: **Seattle WA**

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
**1358.001.01.003**

Lab Project #  
**PESENVSWA-MVSC**

Collected by (print):  
**A. With / B. Hecht / K. Zygas**

Site/Facility ID #

P.O. #

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)

Quote #

Immediately Packed on Ice N  Y

Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Date Results Needed

Nd. of  
Cntrs

V8260LLC VOCs 40ml/Amb-HCl  
NWTPH - GX

L# **L1053394**  
**D086**

Accntnum: **PESENVSWA**

Template: **T131700**

Prelogin: **P662457**

TSR: **110 - Brian Ford**

PB:

Shipped Via:

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Nd. of Cntrs
MW-131-121218	Grab	GW	49'	12-12-18	1245	6
MW-137-121218		GW	110'		1445	6
W-MW-02-121218		GW	75'		1425	6
MW-134-121218		GW	85'		1250	6
MW-133-121218		GW	134'		1000	4
MW-141-121218		GW	100'	X	1120	6
		GW				
		GW				
		GW				
		GW				

01  
02  
03  
04  
05  
06

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:  
 UPS  FedEx  Courier

Tracking # **458664698467**

pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist	
COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
if Applicable:	
VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature)

Date: **12/13/18** Time: **1600**

Received by: (Signature)

Trip Blank Received: Yes/No  HCL/MeOH TBR

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: (Signature)

Temp: **10.3 °C** Bottles Received: **34**  
**1.5 / 1.8 µg/L**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received for lab by: (Signature)

Date: **12/14/18** Time: **0830**

Hold:

Condition: **NCF**  OK



Katie Ingram



Login #: <u>U053394</u>	Client: <u>PESENVSWA</u>	Date: <u>12/14/18</u>	Evaluated by: <u>Myra "Katie" Ingram</u>
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**Non-Conformance (check applicable items)**

Sample Integrity	Chain of Custody Clarification	
Parameter(s) past holding time	Login Clarification Needed	
Temperature not in range	Chain of custody is incomplete	<b>If Broken Container:</b> Insufficient packing material around container Insufficient packing material inside cooler
Improper container type	Please specify Metals requested.	
pH not in range.	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Courier) Sample was frozen
Insufficient sample volume.	Received additional samples not listed on coc.	Container lid not intact
Sample is biphasic.	Sample ids on containers do not match ids on coc	<b>If no Chain of Custody:</b>
Vials received with headspace.	Trip Blank not received.	Received by:
Broken container	X Client did not "X" analysis.	Date/Time:
Broken container:	Chain of Custody is missing	Temp./Cont Rec./pH:
Sufficient sample remains		Carrier:
		Tracking#

**Login Comments:**

We received all 40mlAmb-HCl containers.

Does client want these vials placed on hold or them analyzed.

Client informed by:	Call	Email X	Voice Mail	Date: <u>12/14/18</u>	Time: <u>2030</u>
TSR Initials: <u>bjf</u>	Client Contact: <u>Brian O'Neal</u>				

**Login Instructions:**

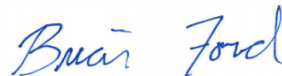
Analyze all samples for NWTPHGX and V8260LLC as R3 due 12/18.

January 02, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1053462  
Samples Received: 12/15/2018  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
MW-151-121418 L1053462-01	<b>5</b>	
MW-152-121418 L1053462-02	<b>6</b>	<b>4</b> Cn
MW-151-121418 L1053462-03	<b>7</b>	<b>5</b> Sr
MW-152-121418 L1053462-04	<b>9</b>	
TRIP BLANK L1053462-05	<b>11</b>	<b>6</b> Qc
<b>Qc: Quality Control Summary</b>	<b>13</b>	
Wet Chemistry by Method 2320 B-2011	<b>13</b>	<b>7</b> Gl
Wet Chemistry by Method 9056A	<b>14</b>	<b>8</b> Al
Wet Chemistry by Method 9060A	<b>16</b>	
Metals (ICPMS) by Method 6020B	<b>18</b>	<b>9</b> Sc
Volatile Organic Compounds (GC) by Method NWTPHGX	<b>19</b>	
Volatile Organic Compounds (GC) by Method RSK175	<b>20</b>	
Volatile Organic Compounds (GC/MS) by Method 8260C	<b>21</b>	
<b>Gl: Glossary of Terms</b>	<b>30</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>31</b>	
<b>Sc: Sample Chain of Custody</b>	<b>32</b>	

# SAMPLE SUMMARY



## MW-151-121418 L1053462-01 GW

						Collected by	Collected date/time	Received date/time
						BH / AW	12/14/18 08:20	12/15/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Wet Chemistry by Method 2320 B-2011	WG1213167	1	12/21/18 12:16	12/21/18 12:16	GB			
Wet Chemistry by Method 9056A	WG1211292	1	12/15/18 15:09	12/15/18 15:09	MAJ			
Wet Chemistry by Method 9056A	WG1211292	10	12/15/18 15:19	12/15/18 15:19	MAJ			
Wet Chemistry by Method 9060A	WG1217442	10	12/31/18 16:36	12/31/18 16:36	SJM			
Metals (ICPMS) by Method 6020B	WG1212648	5	12/19/18 08:48	12/19/18 15:53	JPD			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1212191	1	12/18/18 23:24	12/18/18 23:24	BMB			
Volatile Organic Compounds (GC) by Method RSK175	WG1212739	1	12/19/18 14:54	12/19/18 14:54	MEL			
Volatile Organic Compounds (GC) by Method RSK175	WG1212739	10	12/19/18 15:04	12/19/18 15:04	MEL			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

## MW-152-121418 L1053462-02 GW

						Collected by	Collected date/time	Received date/time
						BH / AW	12/14/18 08:30	12/15/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Wet Chemistry by Method 2320 B-2011	WG1213167	1	12/21/18 12:25	12/21/18 12:25	GB			
Wet Chemistry by Method 9056A	WG1211292	1	12/15/18 15:30	12/15/18 15:30	MAJ			
Wet Chemistry by Method 9056A	WG1211292	5	12/15/18 15:41	12/15/18 15:41	MAJ			
Wet Chemistry by Method 9060A	WG1216816	1	12/29/18 07:36	12/29/18 07:36	SJM			
Metals (ICPMS) by Method 6020B	WG1212648	1	12/19/18 08:48	12/19/18 15:02	JPD			
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1212191	10	12/18/18 23:45	12/18/18 23:45	BMB			
Volatile Organic Compounds (GC) by Method RSK175	WG1212739	1	12/19/18 14:56	12/19/18 14:56	MEL			

6 Qc

7 Gl

8 Al

9 Sc

## MW-151-121418 L1053462-03 GW

						Collected by	Collected date/time	Received date/time
						BH / AW	12/14/18 08:20	12/15/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211777	1	12/16/18 17:52	12/16/18 17:52	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212243	50	12/17/18 23:32	12/17/18 23:32	ACG			

## MW-152-121418 L1053462-04 GW

						Collected by	Collected date/time	Received date/time
						BH / AW	12/14/18 08:30	12/15/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1211777	25	12/16/18 18:11	12/16/18 18:11	BMB			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212243	2000	12/17/18 23:53	12/17/18 23:53	ACG			

## TRIP BLANK L1053462-05 GW

						Collected by	Collected date/time	Received date/time
						BH / AW	12/14/18 00:00	12/15/18 08:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst			
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1212450	1	12/18/18 15:16	12/18/18 15:16	BMB			



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	618000		2710	20000	1	12/21/2018 12:16	<a href="#">WG1213167</a>

Sample Narrative:

L1053462-01 WG1213167: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	32200		51.9	1000	1	12/15/2018 15:09	<a href="#">WG1211292</a>
Nitrate	U		22.7	100	1	12/15/2018 15:09	<a href="#">WG1211292</a>
Sulfate	702000		774	50000	10	12/15/2018 15:19	<a href="#">WG1211292</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	335000		1020	10000	10	12/31/2018 16:36	<a href="#">WG1217442</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	138000		75.0	500	5	12/19/2018 15:53	<a href="#">WG1212648</a>
Manganese	11800		1.25	25.0	5	12/19/2018 15:53	<a href="#">WG1212648</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1040		31.6	100	1	12/18/2018 23:24	<a href="#">WG1212191</a>
(S) <i>a,a</i> -Trifluorotoluene(FID)	104			78.0-120		12/18/2018 23:24	<a href="#">WG1212191</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	18900		2.87	6.78	10	12/19/2018 15:04	<a href="#">WG1212739</a>
Ethane	68.4		0.296	1.29	1	12/19/2018 14:54	<a href="#">WG1212739</a>
Ethene	101		0.422	1.27	1	12/19/2018 14:54	<a href="#">WG1212739</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	299000		2710	20000	1	12/21/2018 12:25	<a href="#">WG1213167</a>

Sample Narrative:

L1053462-02 WG1213167: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	181000		260	5000	5	12/15/2018 15:41	<a href="#">WG1211292</a>
Nitrate	U		22.7	100	1	12/15/2018 15:30	<a href="#">WG1211292</a>
Sulfate	31600		77.4	5000	1	12/15/2018 15:30	<a href="#">WG1211292</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	16900		102	1000	1	12/29/2018 07:36	<a href="#">WG1216816</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3820		15.0	100	1	12/19/2018 15:02	<a href="#">WG1212648</a>
Manganese	1460	V	0.250	5.00	1	12/19/2018 15:02	<a href="#">WG1212648</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	47300		316	1000	10	12/18/2018 23:45	<a href="#">WG1212191</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		12/18/2018 23:45	<a href="#">WG1212191</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	3710		0.287	0.678	1	12/19/2018 14:56	<a href="#">WG1212739</a>
Ethane	32.2		0.296	1.29	1	12/19/2018 14:56	<a href="#">WG1212739</a>
Ethene	2050		0.422	1.27	1	12/19/2018 14:56	<a href="#">WG1212739</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	16.6	J	1.05	25.0	1	12/16/2018 17:52	WG1211777
Acrylonitrile	U		0.873	5.00	1	12/16/2018 17:52	WG1211777
Benzene	0.342	J	0.0896	0.500	1	12/16/2018 17:52	WG1211777
Bromobenzene	U	J4	0.133	0.500	1	12/16/2018 17:52	WG1211777
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 17:52	WG1211777
Bromochloromethane	U		0.145	0.500	1	12/16/2018 17:52	WG1211777
Bromoform	U		0.186	0.500	1	12/16/2018 17:52	WG1211777
Bromomethane	U		0.157	2.50	1	12/16/2018 17:52	WG1211777
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 17:52	WG1211777
sec-Butylbenzene	U	J3	0.134	0.500	1	12/16/2018 17:52	WG1211777
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 17:52	WG1211777
Carbon disulfide	4.43		0.101	0.500	1	12/16/2018 17:52	WG1211777
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 17:52	WG1211777
Chlorobenzene	U		0.140	0.500	1	12/16/2018 17:52	WG1211777
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 17:52	WG1211777
Chloroethane	2.63		0.141	2.50	1	12/16/2018 17:52	WG1211777
Chloroform	0.285	J	0.0860	0.500	1	12/16/2018 17:52	WG1211777
Chloromethane	U		0.153	1.25	1	12/16/2018 17:52	WG1211777
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 17:52	WG1211777
4-Chlorotoluene	U	J4	0.0972	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 17:52	WG1211777
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 17:52	WG1211777
Dibromomethane	U		0.117	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 17:52	WG1211777
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 17:52	WG1211777
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 17:52	WG1211777
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 17:52	WG1211777
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 17:52	WG1211777
1,1-Dichloroethene	7.05		0.188	0.500	1	12/16/2018 17:52	WG1211777
cis-1,2-Dichloroethene	1690		4.66	25.0	50	12/17/2018 23:32	WG1212243
trans-1,2-Dichloroethene	4.56		0.152	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 17:52	WG1211777
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 17:52	WG1211777
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 17:52	WG1211777
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 17:52	WG1211777
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 17:52	WG1211777
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 17:52	WG1211777
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 17:52	WG1211777
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 17:52	WG1211777
Ethylbenzene	U		0.158	0.500	1	12/16/2018 17:52	WG1211777
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 17:52	WG1211777
2-Hexanone	U		0.757	5.00	1	12/16/2018 17:52	WG1211777
n-Hexane	U		0.305	5.00	1	12/16/2018 17:52	WG1211777
Iodomethane	U		0.377	10.0	1	12/16/2018 17:52	WG1211777
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 17:52	WG1211777
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 17:52	WG1211777
2-Butanone (MEK)	4.26	J	1.28	5.00	1	12/16/2018 17:52	WG1211777
Methylene Chloride	U		1.07	2.50	1	12/16/2018 17:52	WG1211777
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 17:52	WG1211777
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 17:52	WG1211777
Naphthalene	U		0.174	2.50	1	12/16/2018 17:52	WG1211777
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 17:52	WG1211777
Styrene	U		0.117	0.500	1	12/16/2018 17:52	WG1211777
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 17:52	WG1211777
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 17:52	WG1211777

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 12/14/18 08:20

L1053462

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Tetrachloroethene	1460		9.95	25.0	50	12/17/2018 23:32	<a href="#">WG1212243</a>
Toluene	0.440	<u>J</u>	0.412	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Trichloroethene	155		0.153	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Vinyl chloride	530		5.90	25.0	50	12/17/2018 23:32	<a href="#">WG1212243</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 17:52	<a href="#">WG1211777</a>
(S) Toluene-d8	92.1			80.0-120		12/16/2018 17:52	<a href="#">WG1211777</a>
(S) Toluene-d8	108			80.0-120		12/17/2018 23:32	<a href="#">WG1212243</a>
(S) Dibromofluoromethane	97.2			75.0-120		12/16/2018 17:52	<a href="#">WG1211777</a>
(S) Dibromofluoromethane	107			75.0-120		12/17/2018 23:32	<a href="#">WG1212243</a>
(S) 4-Bromofluorobenzene	125			77.0-126		12/16/2018 17:52	<a href="#">WG1211777</a>
(S) 4-Bromofluorobenzene	94.2			77.0-126		12/17/2018 23:32	<a href="#">WG1212243</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l	ug/l			
Acetone	U		26.2	625	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Acrylonitrile	U		21.8	125	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Benzene	U		2.24	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Bromobenzene	U	J4	3.32	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Bromodichloromethane	U		2.00	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Bromochloromethane	U		3.62	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Bromoform	U		4.65	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Bromomethane	U		3.92	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
n-Butylbenzene	U		3.58	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
sec-Butylbenzene	U	J3	3.35	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
tert-Butylbenzene	U		4.58	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Carbon disulfide	13.7		2.52	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Carbon tetrachloride	U		3.98	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Chlorobenzene	U		3.50	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Chlorodibromomethane	U		3.20	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Chloroethane	U		3.52	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Chloroform	U		2.15	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Chloromethane	U		3.82	31.3	25	12/16/2018 18:11	<a href="#">WG1211777</a>
2-Chlorotoluene	U		2.78	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
4-Chlorotoluene	U	J4	2.43	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2-Dibromo-3-Chloropropane	U		8.12	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2-Dibromoethane	U		4.82	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Dibromomethane	U		2.92	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2-Dichlorobenzene	U		2.52	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,3-Dichlorobenzene	U		3.25	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,4-Dichlorobenzene	U		3.02	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Dichlorodifluoromethane	U		3.18	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1-Dichloroethane	U		2.85	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2-Dichloroethane	U		2.70	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1-Dichloroethene	108		4.70	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
cis-1,2-Dichloroethene	77100		187	1000	2000	12/17/2018 23:53	<a href="#">WG1212243</a>
trans-1,2-Dichloroethene	134		3.80	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2-Dichloropropane	U		4.75	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1-Dichloropropene	U		3.20	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,3-Dichloropropane	U		3.68	25.0	25	12/16/2018 18:11	<a href="#">WG1211777</a>
cis-1,3-Dichloropropene	U		2.44	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
trans-1,3-Dichloropropene	U		5.55	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
trans-1,4-Dichloro-2-butene	U		6.42	125	25	12/16/2018 18:11	<a href="#">WG1211777</a>
2,2-Dichloropropane	U		2.32	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Di-isopropyl ether	U		2.31	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Ethylbenzene	U		3.95	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Hexachloro-1,3-butadiene	U		3.92	25.0	25	12/16/2018 18:11	<a href="#">WG1211777</a>
2-Hexanone	U		18.9	125	25	12/16/2018 18:11	<a href="#">WG1211777</a>
n-Hexane	U		7.62	125	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Iodomethane	U		9.42	250	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Isopropylbenzene	U		3.15	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
p-Isopropyltoluene	U		3.45	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
2-Butanone (MEK)	U		32.0	125	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Methylene Chloride	U		26.8	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
4-Methyl-2-pentanone (MIBK)	U		20.6	125	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Methyl tert-butyl ether	U		2.55	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Naphthalene	U		4.35	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
n-Propylbenzene	U		4.05	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Styrene	U		2.92	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1,1,2-Tetrachloroethane	U		3.00	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1,2,2-Tetrachloroethane	U		3.25	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		4.10	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Tetrachloroethene	23600		398	1000	2000	12/17/2018 23:53	<a href="#">WG1212243</a>
Toluene	U		10.3	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	4.10	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,4-Trichlorobenzene	U		8.88	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1,1-Trichloroethane	U		2.35	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1,2-Trichloroethane	U		4.65	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Trichloroethene	6870		306	1000	2000	12/17/2018 23:53	<a href="#">WG1212243</a>
Trichlorofluoromethane	U		3.25	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,3-Trichloropropane	U		6.18	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,4-Trimethylbenzene	3.49	<u>BJ</u>	3.08	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,3-Trimethylbenzene	U		1.85	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,3,5-Trimethylbenzene	U		3.10	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Vinyl acetate	U		16.1	125	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Vinyl chloride	7830		236	1000	2000	12/17/2018 23:53	<a href="#">WG1212243</a>
Xylenes, Total	U		7.90	37.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
(S) Toluene-d8	97.7			80.0-120		12/16/2018 18:11	<a href="#">WG1211777</a>
(S) Toluene-d8	107			80.0-120		12/17/2018 23:53	<a href="#">WG1212243</a>
(S) Dibromofluoromethane	103			75.0-120		12/16/2018 18:11	<a href="#">WG1211777</a>
(S) Dibromofluoromethane	106			75.0-120		12/17/2018 23:53	<a href="#">WG1212243</a>
(S) 4-Bromofluorobenzene	137	<u>J1</u>		77.0-126		12/16/2018 18:11	<a href="#">WG1211777</a>
(S) 4-Bromofluorobenzene	93.1			77.0-126		12/17/2018 23:53	<a href="#">WG1212243</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1053462-04 WG1211777: Diluted due to high levels of target analytes.



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Acrylonitrile	U		0.873	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Benzene	U		0.0896	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromobenzene	U		0.133	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromodichloromethane	U		0.0800	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromochloromethane	U		0.145	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromoform	U		0.186	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromomethane	U		0.157	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
n-Butylbenzene	U		0.143	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
sec-Butylbenzene	U		0.134	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
tert-Butylbenzene	U		0.183	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Carbon disulfide	U		0.101	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Carbon tetrachloride	U		0.159	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chlorobenzene	U		0.140	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chlorodibromomethane	U		0.128	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chloroethane	U		0.141	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chloroform	U		0.0860	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chloromethane	U		0.153	1.25	1	12/18/2018 15:16	<a href="#">WG1212450</a>
2-Chlorotoluene	U		0.111	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Dibromomethane	U		0.117	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Dichlorodifluoromethane	U	<u>JO</u>	0.127	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
2,2-Dichloropropane	U	<u>JO</u>	0.0929	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Ethylbenzene	U		0.158	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
2-Hexanone	U		0.757	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
n-Hexane	U		0.305	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Iodomethane	U		0.377	10.0	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Isopropylbenzene	U		0.126	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Methylene Chloride	U		1.07	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Naphthalene	U		0.174	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
n-Propylbenzene	U		0.162	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Styrene	U		0.117	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 12/14/18 00:00

L1053462

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Toluene	U		0.412	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Trichloroethene	U		0.153	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Trichlorofluoromethane	U	<u>JO</u>	0.130	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Vinyl acetate	U		0.645	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Vinyl chloride	U		0.118	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Xylenes, Total	U		0.316	1.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
(S) Toluene-d8	107			80.0-120		12/18/2018 15:16	<a href="#">WG1212450</a>
(S) Dibromofluoromethane	88.5			75.0-120		12/18/2018 15:16	<a href="#">WG1212450</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		12/18/2018 15:16	<a href="#">WG1212450</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3370909-1 12/21/18 12:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	2870	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1053462-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1053462-02 12/21/18 12:25 • (DUP) R3370909-3 12/21/18 12:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	299000	297000	1	0.833		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1052876-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1052876-01 12/21/18 15:46 • (DUP) R3370909-5 12/21/18 15:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	114000	113000	1	0.550		20

Sample Narrative:

OS: Endpoint pH 4.5

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3370909-4 12/21/18 13:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	99200	99.2	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3368945-1 12/15/18 08:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	136	↓	51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1053354-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1053354-02 12/15/18 10:57 • (DUP) R3368945-3 12/15/18 11:08

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	35500	35700	1	0.539		15
Nitrate	ND	0.000	1	0.000		15

L1053526-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1053526-02 12/15/18 20:03 • (DUP) R3368945-6 12/15/18 20:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	3440	3490	1	1.18		15
Nitrate	ND	0.000	1	0.000		15

Laboratory Control Sample (LCS)

(LCS) R3368945-2 12/15/18 08:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	39700	99.2	80.0-120	
Nitrate	8000	8120	102	80.0-120	
Sulfate	40000	40300	101	80.0-120	

L1053354-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053354-02 12/15/18 10:57 • (MS) R3368945-4 12/15/18 11:19 • (MSD) R3368945-5 12/15/18 11:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50000	35500	85800	84900	100	98.7	1	80.0-120			1.05	15
Nitrate	5000	ND	5760	5740	115	115	1	80.0-120			0.468	15



L1053526-02 Original Sample (OS) • Matrix Spike (MS)

(OS) L1053526-02 12/15/18 20:03 • (MS) R3368945-7 12/15/18 20:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50000	3440	53400	99.8	1	80.0-120	
Nitrate	5000	ND	6620	132	1	80.0-120	<u>J5</u>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3372247-1 12/28/18 22:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	U		102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

L1053205-14 Original Sample (OS) • Duplicate (DUP)

(OS) L1053205-14 12/28/18 23:17 • (DUP) R3372247-3 12/28/18 23:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	549	571	1	3.89	↓	20

L1053379-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1053379-10 12/29/18 05:48 • (DUP) R3372247-6 12/29/18 06:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1290	1310	1	1.08		20

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R3372247-2 12/28/18 22:53

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	73800	98.3	85.0-115	

L1053259-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053259-02 12/29/18 01:37 • (MS) R3372247-4 12/29/18 01:55 • (MSD) R3372247-5 12/29/18 02:12

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	795	53000	53300	104	105	1	80.0-120			0.527	20

L1053462-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053462-02 12/29/18 07:36 • (MS) R3372247-7 12/29/18 07:52 • (MSD) R3372247-8 12/29/18 08:14

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	16900	69200	69500	105	105	1	80.0-120			0.418	20



Method Blank (MB)

(MB) R3372508-1 12/31/18 09:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	U		102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1054422-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1054422-01 12/31/18 10:14 • (DUP) R3372508-3 12/31/18 10:31

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	6440	6470	1	0.480		20

L1053057-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1053057-02 12/31/18 12:51 • (DUP) R3372508-4 12/31/18 13:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	2690	2660	1	1.08		20

Laboratory Control Sample (LCS)

(LCS) R3372508-2 12/31/18 09:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	73700	98.3	85.0-115	

L1053057-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053057-11 12/31/18 14:17 • (MS) R3372508-5 12/31/18 15:32 • (MSD) R3372508-6 12/31/18 15:50

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1730	54900	54800	106	106	1	80.0-120			0.0729	20

L1053488-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053488-01 12/31/18 16:49 • (MS) R3372508-7 12/31/18 17:07 • (MSD) R3372508-8 12/31/18 17:24

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1250	46400	46600	90.2	90.6	1	80.0-120			0.409	20



Method Blank (MB)

(MB) R3369708-1 12/19/18 14:48

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3369708-2 12/19/18 14:53 • (LCSD) R3369708-3 12/19/18 14:57

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	4710	4700	94.1	94.0	80.0-120			0.124	20
Manganese	50.0	45.2	46.5	90.4	92.9	80.0-120			2.72	20

<sup>5</sup> Sr

<sup>6</sup> Qc

L1053462-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053462-02 12/19/18 15:02 • (MS) R3369708-5 12/19/18 15:11 • (MSD) R3369708-6 12/19/18 15:16

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	3820	8430	8430	92.2	92.1	1	75.0-125			0.0832	20
Manganese	50.0	1460	1470	1490	12.4	61.7	1	75.0-125	<u>V</u>	<u>V</u>	1.67	20

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3369754-5 12/18/18 11:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3369754-3 12/18/18 10:33 • (LCSD) R3369754-4 12/18/18 10:55

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5170	5140	94.0	93.4	70.0-124			0.698	20
(S) a,a,a-Trifluorotoluene(FID)				97.8	97.8	78.0-120				

L1053062-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053062-01 12/18/18 15:02 • (MS) R3369754-6 12/19/18 00:07 • (MSD) R3369754-7 12/19/18 00:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	ND	4410	4610	80.2	83.8	1	10.0-155			4.41	21
(S) a,a,a-Trifluorotoluene(FID)					98.6	98.4		78.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3369653-1 12/19/18 13:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1053410-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1053410-10 12/19/18 14:23 • (DUP) R3369653-2 12/19/18 14:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1053410-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1053410-11 12/19/18 14:41 • (DUP) R3369653-3 12/19/18 15:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3369653-4 12/19/18 15:14 • (LCSD) R3369653-5 12/19/18 15:18

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	70.6	75.4	104	111	85.0-115			6.47	20
Ethane	129	115	117	89.5	90.7	85.0-115			1.34	20
Ethene	127	114	116	89.9	91.2	85.0-115			1.46	20



Method Blank (MB)

(MB) R3368969-4 12/16/18 16:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3368969-4 12/16/18 16:53

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	0.232	U	0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	0.134	U	0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	96.7			80.0-120
(S) Dibromofluoromethane	97.8			75.0-120
(S) 4-Bromofluorobenzene	112			77.0-126

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368969-1 12/16/18 15:34 • (LCSD) R3368969-3 12/16/18 16:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	121	125	96.5	99.6	19.0-160			3.23	27
Acrylonitrile	125	134	129	107	103	55.0-149			4.01	20
Benzene	25.0	26.4	27.0	106	108	70.0-123			2.25	20
Bromobenzene	25.0	28.1	31.2	113	125	73.0-121		J4	10.5	20
Bromodichloromethane	25.0	25.3	23.4	101	93.4	75.0-120			7.80	20
Bromochloromethane	25.0	24.4	23.2	97.6	92.7	76.0-122			5.10	20
Bromoform	25.0	24.1	27.5	96.3	110	68.0-132			13.2	20
Bromomethane	25.0	28.4	31.1	113	124	10.0-160			9.21	25
n-Butylbenzene	25.0	26.7	28.1	107	112	73.0-125			4.89	20
sec-Butylbenzene	25.0	24.1	29.9	96.2	120	75.0-125		J3	21.8	20
tert-Butylbenzene	25.0	24.9	28.9	99.4	116	76.0-124			15.0	20
Carbon disulfide	25.0	26.4	28.2	105	113	61.0-128			6.83	20
Carbon tetrachloride	25.0	22.7	22.2	90.7	88.7	68.0-126			2.28	20
Chlorobenzene	25.0	24.2	23.0	96.7	92.2	80.0-121			4.77	20
Chlorodibromomethane	25.0	22.8	19.8	91.4	79.1	77.0-125			14.4	20
Chloroethane	25.0	27.4	29.9	110	120	47.0-150			8.91	20
Chloroform	25.0	26.0	25.6	104	102	73.0-120			1.61	20
Chloromethane	25.0	24.0	25.5	96.1	102	41.0-142			5.80	20
2-Chlorotoluene	25.0	26.3	30.6	105	122	76.0-123			14.9	20
4-Chlorotoluene	25.0	26.0	31.2	104	125	75.0-122		J4	18.4	20
1,2-Dibromo-3-Chloropropane	25.0	24.1	23.1	96.5	92.6	58.0-134			4.13	20
1,2-Dibromoethane	25.0	23.8	21.8	95.4	87.0	80.0-122			9.14	20
Dibromomethane	25.0	26.5	24.1	106	96.6	80.0-120			9.42	20
1,2-Dichlorobenzene	25.0	24.6	26.9	98.3	108	79.0-121			9.20	20
1,3-Dichlorobenzene	25.0	24.2	24.6	96.8	98.4	79.0-120			1.67	20
1,4-Dichlorobenzene	25.0	24.0	24.2	96.2	96.8	79.0-120			0.694	20
Dichlorodifluoromethane	25.0	28.7	31.6	115	126	51.0-149			9.46	20
1,1-Dichloroethane	25.0	25.8	27.1	103	108	70.0-126			4.57	20
1,2-Dichloroethane	25.0	24.9	25.7	99.5	103	70.0-128			3.12	20
1,1-Dichloroethene	25.0	25.4	27.6	102	111	71.0-124			8.32	20
trans-1,2-Dichloroethene	25.0	26.3	28.1	105	112	73.0-120			6.59	20
1,2-Dichloropropane	25.0	27.2	25.1	109	100	77.0-125			8.13	20
1,1-Dichloropropene	25.0	27.4	27.5	109	110	74.0-126			0.528	20
1,3-Dichloropropane	25.0	25.7	24.3	103	97.3	80.0-120			5.41	20
cis-1,3-Dichloropropene	25.0	25.3	24.8	101	99.3	80.0-123			1.80	20
trans-1,3-Dichloropropene	25.0	24.7	24.7	98.9	98.7	78.0-124			0.217	20
trans-1,4-Dichloro-2-butene	25.0	24.5	26.8	98.0	107	33.0-144			8.82	20
2,2-Dichloropropane	25.0	27.9	29.0	112	116	58.0-130			3.78	20
Di-isopropyl ether	25.0	21.8	22.5	87.3	89.9	58.0-138			2.88	20
Ethylbenzene	25.0	25.0	23.8	99.9	95.2	79.0-123			4.84	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3368969-1 12/16/18 15:34 • (LCSD) R3368969-3 12/16/18 16:14

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Hexachloro-1,3-butadiene	25.0	21.3	21.3	85.1	85.2	54.0-138			0.0945	20
2-Hexanone	125	128	113	102	90.5	67.0-149			12.4	20
n-Hexane	25.0	24.2	25.4	96.9	102	57.0-133			4.65	20
Iodomethane	125	112	123	89.6	98.8	33.0-147			9.73	26
Isopropylbenzene	25.0	25.1	29.5	100	118	76.0-127			16.2	20
p-Isopropyltoluene	25.0	24.0	27.5	96.0	110	76.0-125			13.7	20
2-Butanone (MEK)	125	133	118	106	94.0	44.0-160			12.1	20
Methylene Chloride	25.0	24.9	27.0	99.5	108	67.0-120			8.17	20
4-Methyl-2-pentanone (MIBK)	125	107	106	85.2	85.0	68.0-142			0.315	20
Methyl tert-butyl ether	25.0	27.2	28.9	109	115	68.0-125			6.03	20
Naphthalene	25.0	21.7	23.6	87.0	94.5	54.0-135			8.30	20
n-Propylbenzene	25.0	27.1	30.6	109	122	77.0-124			11.8	20
Styrene	25.0	27.1	30.0	109	120	73.0-130			10.1	20
1,1,1,2-Tetrachloroethane	25.0	23.0	21.3	91.8	85.3	75.0-125			7.35	20
1,1,2,2-Tetrachloroethane	25.0	27.1	30.7	109	123	65.0-130			12.4	20
1,1,2-Trichlorotrifluoroethane	25.0	25.1	27.3	100	109	69.0-132			8.69	20
Toluene	25.0	24.0	24.5	96.1	98.0	79.0-120			2.04	20
1,2,3-Trichlorobenzene	25.0	19.6	18.8	78.3	75.2	50.0-138			4.10	20
1,2,4-Trichlorobenzene	25.0	20.9	21.0	83.7	83.9	57.0-137			0.128	20
1,1,1-Trichloroethane	25.0	25.2	24.8	101	99.1	73.0-124			1.64	20
1,1,2-Trichloroethane	25.0	24.2	22.6	96.8	90.4	80.0-120			6.87	20
Trichloroethene	25.0	24.1	24.2	96.2	96.7	78.0-124			0.424	20
Trichlorofluoromethane	25.0	25.4	27.2	102	109	59.0-147			6.60	20
1,2,3-Trichloropropane	25.0	24.3	27.5	97.2	110	73.0-130			12.2	20
1,2,4-Trimethylbenzene	25.0	24.4	29.2	97.6	117	76.0-121			17.7	20
1,2,3-Trimethylbenzene	25.0	25.2	25.9	101	104	77.0-120			2.94	20
1,3,5-Trimethylbenzene	25.0	26.8	29.5	107	118	76.0-122			9.88	20
Vinyl acetate	125	117	128	93.5	102	11.0-160			8.77	20
Xylenes, Total	75.0	65.1	62.0	86.8	82.7	79.0-123			4.88	20
(S) Toluene-d8				98.0	99.5	80.0-120				
(S) Dibromofluoromethane				103	96.0	75.0-120				
(S) 4-Bromofluorobenzene				110	124	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3369098-3 12/17/18 22:03

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	108			80.0-120
(S) Dibromofluoromethane	108			75.0-120
(S) 4-Bromofluorobenzene	94.5			77.0-126

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3369098-1 12/17/18 20:59 • (LCSD) R3369098-2 12/17/18 21:21

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	25.0	25.2	25.3	101	101	73.0-120			0.483	20
Tetrachloroethene	25.0	27.6	26.5	110	106	72.0-132			3.98	20
Trichloroethene	25.0	26.2	26.0	105	104	78.0-124			0.580	20
Vinyl chloride	25.0	29.9	29.6	120	119	67.0-131			1.02	20
(S) Toluene-d8				107	104	80.0-120				
(S) Dibromofluoromethane				105	107	75.0-120				
(S) 4-Bromofluorobenzene				94.9	97.0	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3369231-4 12/18/18 10:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3369231-4 12/18/18 10:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	106			80.0-120
(S) Dibromofluoromethane	89.4			75.0-120
(S) 4-Bromofluorobenzene	96.8			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3369231-1 12/18/18 09:05 • (LCSD) R3369231-2 12/18/18 09:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	120	116	95.6	92.8	19.0-160			2.97	27
Acrylonitrile	125	120	118	95.9	94.8	55.0-149			1.19	20
Benzene	25.0	21.6	21.3	86.6	85.2	70.0-123			1.65	20
Bromobenzene	25.0	23.5	24.0	93.9	96.0	73.0-121			2.18	20
Bromodichloromethane	25.0	23.2	23.8	92.8	95.0	75.0-120			2.39	20
Bromochloromethane	25.0	23.1	23.4	92.5	93.5	76.0-122			1.03	20
Bromoform	25.0	21.7	21.7	87.0	86.7	68.0-132			0.336	20
Bromomethane	25.0	24.7	24.1	99.0	96.5	10.0-160			2.53	25
n-Butylbenzene	25.0	27.0	27.1	108	108	73.0-125			0.426	20
sec-Butylbenzene	25.0	24.2	24.0	96.7	96.0	75.0-125			0.708	20
tert-Butylbenzene	25.0	24.8	25.0	99.2	100	76.0-124			1.02	20
Carbon disulfide	25.0	21.2	21.2	84.8	84.9	61.0-128			0.0674	20
Carbon tetrachloride	25.0	20.0	20.3	80.2	81.0	68.0-126			1.05	20
Chlorobenzene	25.0	27.3	27.9	109	112	80.0-121			2.34	20
Chlorodibromomethane	25.0	26.3	26.7	105	107	77.0-125			1.37	20
Chloroethane	25.0	22.7	23.8	90.8	95.3	47.0-150			4.91	20
Chloroform	25.0	21.6	21.3	86.3	85.4	73.0-120			1.11	20
Chloromethane	25.0	21.6	22.2	86.4	88.7	41.0-142			2.61	20
2-Chlorotoluene	25.0	24.4	24.5	97.8	98.0	76.0-123			0.204	20
4-Chlorotoluene	25.0	24.8	25.0	99.2	99.8	75.0-122			0.649	20
1,2-Dibromo-3-Chloropropane	25.0	24.8	24.9	99.0	99.5	58.0-134			0.486	20
1,2-Dibromoethane	25.0	26.9	27.5	108	110	80.0-122			2.10	20
Dibromomethane	25.0	24.6	24.7	98.4	98.7	80.0-120			0.302	20
1,2-Dichlorobenzene	25.0	26.5	27.0	106	108	79.0-121			1.89	20
1,3-Dichlorobenzene	25.0	25.2	25.4	101	102	79.0-120			0.832	20
1,4-Dichlorobenzene	25.0	25.8	25.9	103	104	79.0-120			0.265	20
Dichlorodifluoromethane	25.0	18.2	18.4	72.7	73.5	51.0-149			1.06	20
1,1-Dichloroethane	25.0	21.7	21.3	86.7	85.1	70.0-126			1.96	20
1,2-Dichloroethane	25.0	21.0	20.4	83.9	81.6	70.0-128			2.75	20
1,1-Dichloroethene	25.0	22.5	22.8	89.9	91.0	71.0-124			1.22	20
cis-1,2-Dichloroethene	25.0	21.9	22.0	87.4	88.1	73.0-120			0.710	20
trans-1,2-Dichloroethene	25.0	22.0	21.8	87.9	87.2	73.0-120			0.856	20
1,2-Dichloropropane	25.0	24.8	25.0	99.2	99.9	77.0-125			0.782	20
1,1-Dichloropropene	25.0	22.3	22.1	89.0	88.2	74.0-126			0.900	20
1,3-Dichloropropane	25.0	27.0	27.1	108	109	80.0-120			0.409	20
cis-1,3-Dichloropropene	25.0	26.0	26.4	104	106	80.0-123			1.82	20
trans-1,3-Dichloropropene	25.0	25.2	25.7	101	103	78.0-124			2.28	20
trans-1,4-Dichloro-2-butene	25.0	20.7	20.9	82.9	83.5	33.0-144			0.623	20
2,2-Dichloropropane	25.0	20.0	19.8	79.8	79.2	58.0-130			0.780	20
Di-isopropyl ether	25.0	22.0	21.3	87.9	85.3	58.0-138			2.94	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3369231-1 12/18/18 09:05 • (LCSD) R3369231-2 12/18/18 09:24

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	25.0	26.9	26.6	108	107	79.0-123			0.919	20
Hexachloro-1,3-butadiene	25.0	25.7	25.5	103	102	54.0-138			0.617	20
2-Hexanone	125	144	144	115	116	67.0-149			0.532	20
n-Hexane	25.0	25.7	25.0	103	100	57.0-133			2.59	20
Iodomethane	125	112	113	89.3	90.2	33.0-147			0.999	26
Isopropylbenzene	25.0	24.9	25.1	99.8	100	76.0-127			0.478	20
p-Isopropyltoluene	25.0	24.7	24.3	98.7	97.1	76.0-125			1.66	20
2-Butanone (MEK)	125	111	112	89.1	89.2	44.0-160			0.0845	20
Methylene Chloride	25.0	21.9	21.7	87.7	86.9	67.0-120			0.926	20
4-Methyl-2-pentanone (MIBK)	125	131	131	104	105	68.0-142			0.474	20
Methyl tert-butyl ether	25.0	20.1	20.0	80.5	79.9	68.0-125			0.719	20
Naphthalene	25.0	25.2	25.7	101	103	54.0-135			2.02	20
n-Propylbenzene	25.0	25.0	25.2	100	101	77.0-124			0.845	20
Styrene	25.0	25.5	25.9	102	104	73.0-130			1.86	20
1,1,1,2-Tetrachloroethane	25.0	26.3	26.6	105	107	75.0-125			1.15	20
1,1,2,2-Tetrachloroethane	25.0	26.2	26.2	105	105	65.0-130			0.0105	20
1,1,2-Trichlorotrifluoroethane	25.0	23.4	23.3	93.6	93.3	69.0-132			0.290	20
Tetrachloroethene	25.0	28.6	28.7	114	115	72.0-132			0.112	20
Toluene	25.0	25.0	25.4	99.9	102	79.0-120			1.78	20
1,2,3-Trichlorobenzene	25.0	23.3	25.3	93.3	101	50.0-138			7.97	20
1,2,4-Trichlorobenzene	25.0	24.7	25.3	98.9	101	57.0-137			2.44	20
1,1,1-Trichloroethane	25.0	21.3	21.2	85.4	84.8	73.0-124			0.649	20
1,1,2-Trichloroethane	25.0	27.4	27.4	110	110	80.0-120			0.0499	20
Trichloroethene	25.0	24.0	24.5	96.1	97.8	78.0-124			1.77	20
Trichlorofluoromethane	25.0	18.8	17.8	75.1	71.2	59.0-147			5.45	20
1,2,3-Trichloropropane	25.0	26.5	27.2	106	109	73.0-130			2.29	20
1,2,4-Trimethylbenzene	25.0	24.1	24.0	96.4	96.1	76.0-121			0.318	20
1,2,3-Trimethylbenzene	25.0	25.6	25.4	102	102	77.0-120			0.536	20
1,3,5-Trimethylbenzene	25.0	25.2	25.2	101	101	76.0-122			0.00893	20
Vinyl acetate	125	162	160	130	128	11.0-160			1.62	20
Vinyl chloride	25.0	24.9	24.5	99.4	97.9	67.0-131			1.51	20
Xylenes, Total	75.0	80.7	81.6	108	109	79.0-123			1.11	20
(S) Toluene-d8				103	104	80.0-120				
(S) Dibromofluoromethane				86.0	85.0	75.0-120				
(S) 4-Bromofluorobenzene				94.6	94.7	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

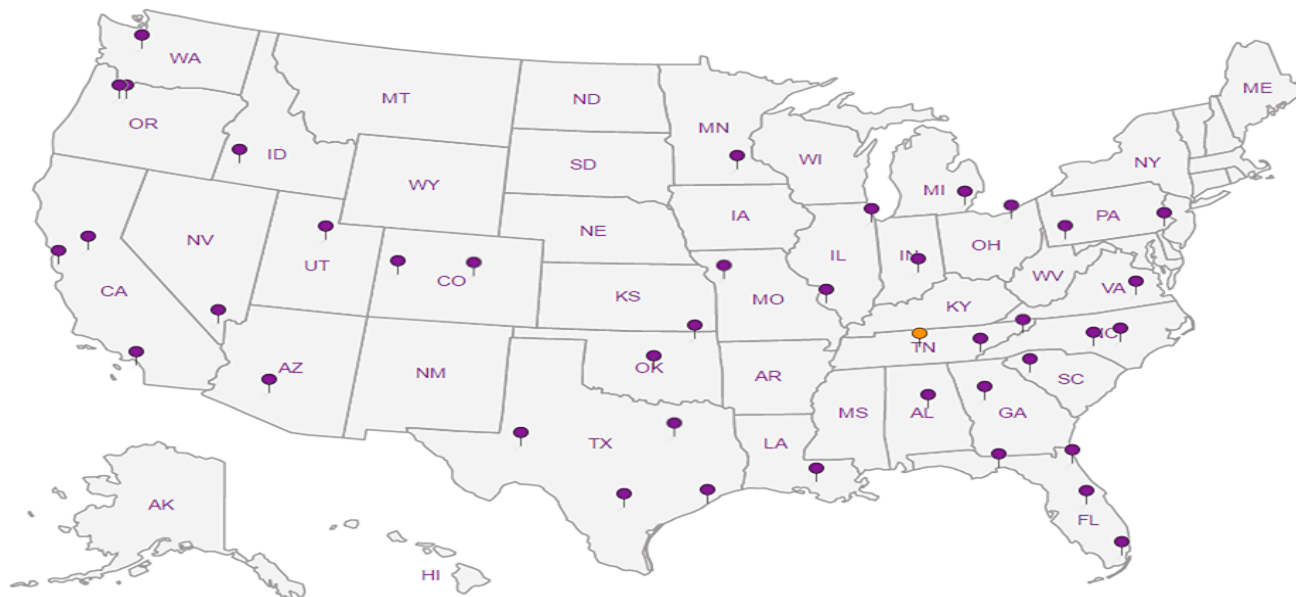
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# **L1693462**  
**A106**

Acctnum: **PESENVSWA**

Template: **T143817**

Prelogin: **P685297**

TSR: **110 - Brian Ford**

PB:

Shipped Via:

Remarks Sample # (lab only)

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: [boneal@pesenv.com](mailto:boneal@pesenv.com);  
[bhaldeman@pesenv.com](mailto:bhaldeman@pesenv.com);

Project  
Description: **American Linen**

City/State  
Collected:

Phone: **206-529-3980**  
Fax: **206-529-3985**

Client Project #  
**1413.001.05.601**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
*Ben Hecht / Alyssa Witt*

Site/Facility ID #  
*American Linen*

P.O. #

Collected by (signature):  
*[Signature]*

**Rush?** (Lab MUST Be Notified)

\_\_\_ Same Day \_\_\_ Five Day  
\_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
\_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
\_\_\_ Three Day

Quote #

Date Results Needed

No.  
of  
Cntrs

Immediately  
Packed on Ice: N \_\_\_ Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	NWTPHGX 40mlAmb HCl	VOCs (V8260LLC) 40mlAmb-HCl	NO3, Cl, SO4	Alkalinity	TOC	Total Fe and Mn by 6020	RSK-175 ethene ethane
MW-151-121418	Grab	GW	~46	12-14-18	0820	X	X	X	X	X	X	X
MW-152-121418	↓	GW	~55	↓	0930	X	X	X	X	X	X	X
Trip Blank	N/A	GW	N/A	↓	NA	X	X	X	X	X	X	X
		GW										
		GW										
		GW										
		GW										
		GW										
		GW										
		GW										

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:  
\_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier

Tracking # **4686 6470 3698**

pH \_\_\_ Temp \_\_\_

Flow \_\_\_ Other \_\_\_

Sample Receipt Checklist:

COC Seal Present/Intact:  N  Y  M  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

**RAD SCREEN:**

Relinquished by: (Signature)  
*[Signature]*

Date: **12-14-18**  
Time: **15:30**

Received by: (Signature)

Trip Blank Received:  Yes  No  
 HCL  MeOH  
 TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: **5.4-0.3=5.1** °C  
Bottles Received: **27/1**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)  
*[Signature]*

Date: **12/15/18** Time: **8:45**

Hold:

Condition:  
NCF /  OK

Jeremy W. Watkins



Login #: L1053462	Client: PESENVSWA	Date: 12/15/18	Evaluated by: Jeremy
-------------------	-------------------	----------------	----------------------

**Non-Conformance (check applicable items)**

Sample Integrity	Chain of Custody Clarification	If Broken Container:
Parameter(s) past holding time	Login Clarification Needed	Insufficient packing material around container
Temperature not in range	Chain of custody is incomplete	Insufficient packing material inside cooler
Improper container type	Please specify Metals requested.	Improper handling by carrier (FedEx / UPS / Courier)
pH not in range.	Please specify TCLP requested.	Sample was frozen
Insufficient sample volume.	Received additional samples not listed on coc.	Container lid not intact
Sample is biphasic.	Sample ids on containers do not match ids on coc	<b>If no Chain of Custody:</b>
Vials received with headspace.	Trip Blank not received.	Received by:
Broken container	x Client did not "X" analysis.	Date/Time:
Broken container:	Chain of Custody is missing	Temp./Cont. Rec./pH:
Sufficient sample remains		Carrier:
		Tracking#

**Login Comments: All analysis marked for Trip Blank**

Client informed by:	Call	Email X	Voice Mail	Date: 12/17/18	Time: 1015
TSR Initials: bjf	Client Contact: PMs				

**Login Instructions:**

Run trip blank for V8260LLC only. Standard TAT.

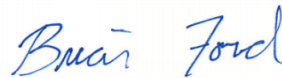
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January 04, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1053929  
Samples Received: 12/18/2018  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
<b>MW-138-121718 L1053929-01</b>	<b>5</b>	
<b>MW-130-121718 L1053929-02</b>	<b>7</b>	<b>4</b> Cn
<b>Qc: Quality Control Summary</b>	<b>10</b>	<b>5</b> Sr
<b>Wet Chemistry by Method 2320 B-2011</b>	<b>10</b>	
<b>Wet Chemistry by Method 9056A</b>	<b>11</b>	<b>6</b> Qc
<b>Wet Chemistry by Method 9060A</b>	<b>13</b>	
<b>Metals (ICPMS) by Method 6020B</b>	<b>14</b>	<b>7</b> Gl
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<b>Gl: Glossary of Terms</b>	<b>22</b>	<b>9</b> Sc
<b>Al: Accreditations &amp; Locations</b>	<b>23</b>	
<b>Sc: Sample Chain of Custody</b>	<b>24</b>	

# SAMPLE SUMMARY



## MW-138-121718 L1053929-01 GW

Collected by Alyssa Witt  
Collected date/time 12/17/18 11:25  
Received date/time 12/18/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1213027	1	12/19/18 19:22	12/19/18 19:22	JHH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1213125	1	12/19/18 20:42	12/19/18 20:42	PP

1  
Cp

2  
Tc

3  
Ss

## MW-130-121718 L1053929-02 GW

Collected by Alyssa Witt  
Collected date/time 12/17/18 13:20  
Received date/time 12/18/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1213167	1	12/21/18 15:17	12/21/18 15:17	GB
Wet Chemistry by Method 9056A	WG1212377	1	12/18/18 18:48	12/18/18 18:48	ELN
Wet Chemistry by Method 9056A	WG1212377	5	12/18/18 19:36	12/18/18 19:36	ELN
Wet Chemistry by Method 9060A	WG1218013	1	01/02/19 19:31	01/02/19 19:31	EEM
Metals (ICPMS) by Method 6020B	WG1212854	1	12/19/18 10:18	12/20/18 15:18	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1213027	20	12/19/18 19:43	12/19/18 19:43	JHH
Volatile Organic Compounds (GC) by Method RSK175	WG1213275	1	12/21/18 13:35	12/21/18 13:35	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1213125	50	12/19/18 21:02	12/19/18 21:02	PP
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1214284	200	12/21/18 17:19	12/21/18 17:19	BMB

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/19/2018 19:22	<a href="#">WG1213027</a>
(S) a,a,a-Trifluorotoluene(FID)	92.8			78.0-120		12/19/2018 19:22	<a href="#">WG1213027</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Acrylonitrile	U		0.873	5.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Benzene	U		0.0896	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Bromobenzene	U		0.133	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Bromodichloromethane	U		0.0800	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Bromochloromethane	U		0.145	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Bromoform	U		0.186	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Bromomethane	U		0.157	2.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
n-Butylbenzene	U		0.143	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
sec-Butylbenzene	U		0.134	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
tert-Butylbenzene	U		0.183	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Carbon disulfide	0.382	J	0.101	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Carbon tetrachloride	U		0.159	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Chlorobenzene	U		0.140	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Chlorodibromomethane	U		0.128	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Chloroethane	U		0.141	2.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Chloroform	U		0.0860	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Chloromethane	U		0.153	1.25	1	12/19/2018 20:42	<a href="#">WG1213125</a>
2-Chlorotoluene	U		0.111	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Dibromomethane	U		0.117	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Ethylbenzene	U		0.158	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>
2-Hexanone	U		0.757	5.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>
n-Hexane	U		0.305	5.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Iodomethane	U		0.377	10.0	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Isopropylbenzene	U		0.126	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 12/17/18 11:25

L1053929

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Naphthalene	U		0.174	2.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
n-Propylbenzene	U		0.162	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Styrene	U		0.117	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Tetrachloroethene	U		0.199	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Toluene	U		0.412	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Trichloroethene	U		0.153	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Vinyl acetate	U		0.645	5.00	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Vinyl chloride	U		0.118	0.500	1	12/19/2018 20:42	<a href="#">WG1213125</a>
Xylenes, Total	U		0.316	1.50	1	12/19/2018 20:42	<a href="#">WG1213125</a>
(S) Toluene-d8	103			80.0-120		12/19/2018 20:42	<a href="#">WG1213125</a>
(S) Dibromofluoromethane	98.1			75.0-120		12/19/2018 20:42	<a href="#">WG1213125</a>
(S) 4-Bromofluorobenzene	104			77.0-126		12/19/2018 20:42	<a href="#">WG1213125</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	384000		2710	20000	1	12/21/2018 15:17	<a href="#">WG1213167</a>

Sample Narrative:

L1053929-02 WG1213167: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	143000		260	5000	5	12/18/2018 19:36	<a href="#">WG1212377</a>
Nitrate	U		22.7	100	1	12/18/2018 18:48	<a href="#">WG1212377</a>
Sulfate	17300		77.4	5000	1	12/18/2018 18:48	<a href="#">WG1212377</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	12600		102	1000	1	01/02/2019 19:31	<a href="#">WG1218013</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2260		15.0	100	1	12/20/2018 15:18	<a href="#">WG1212854</a>
Manganese	490		0.250	5.00	1	12/20/2018 15:18	<a href="#">WG1212854</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	16400		632	2000	20	12/19/2018 19:43	<a href="#">WG1213027</a>
(S) a,a,a-Trifluorotoluene(FID)	93.1			78.0-120		12/19/2018 19:43	<a href="#">WG1213027</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	324		0.287	0.678	1	12/21/2018 13:35	<a href="#">WG1213275</a>
Ethane	8.36		0.296	1.29	1	12/21/2018 13:35	<a href="#">WG1213275</a>
Ethene	166		0.422	1.27	1	12/21/2018 13:35	<a href="#">WG1213275</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	65.0	J	52.5	1250	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Acrylonitrile	U		43.6	250	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Benzene	U		4.48	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Bromobenzene	U		6.65	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Bromodichloromethane	U		4.00	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Bromochloromethane	U		7.25	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Bromoform	U		9.30	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Bromomethane	U		7.85	125	50	12/19/2018 21:02	<a href="#">WG1213125</a>
n-Butylbenzene	U		7.15	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
sec-Butylbenzene	U		6.70	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
tert-Butylbenzene	U		9.15	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Carbon disulfide	5.74	J	5.05	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Carbon tetrachloride	U		7.95	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		7.00	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Chlorodibromomethane	U		6.40	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Chloroethane	U		7.05	125	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Chloroform	U		4.30	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Chloromethane	U		7.65	62.5	50	12/19/2018 21:02	<a href="#">WG1213125</a>
2-Chlorotoluene	U		5.55	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
4-Chlorotoluene	U		4.86	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2-Dibromo-3-Chloropropane	U		16.2	125	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2-Dibromoethane	U		9.65	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Dibromomethane	U		5.85	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2-Dichlorobenzene	U		5.05	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,3-Dichlorobenzene	U		6.50	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,4-Dichlorobenzene	U		6.05	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Dichlorodifluoromethane	U		6.35	125	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,1-Dichloroethane	U		5.70	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2-Dichloroethane	U		5.40	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,1-Dichloroethene	124		9.40	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
cis-1,2-Dichloroethene	26400		18.7	100	200	12/21/2018 17:19	<a href="#">WG1214284</a>
trans-1,2-Dichloroethene	83.5		7.60	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2-Dichloropropane	U		9.50	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,1-Dichloropropene	U		6.40	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,3-Dichloropropane	U		7.35	50.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
cis-1,3-Dichloropropene	U		4.88	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
trans-1,3-Dichloropropene	U		11.1	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
trans-1,4-Dichloro-2-butene	U		12.8	250	50	12/19/2018 21:02	<a href="#">WG1213125</a>
2,2-Dichloropropane	U		4.64	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Di-isopropyl ether	U		4.62	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Ethylbenzene	U		7.90	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Hexachloro-1,3-butadiene	U		7.85	50.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
2-Hexanone	U		37.8	250	50	12/19/2018 21:02	<a href="#">WG1213125</a>
n-Hexane	U		15.2	250	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Iodomethane	U		18.8	500	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Isopropylbenzene	U		6.30	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
p-Isopropyltoluene	U		6.90	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
2-Butanone (MEK)	U		64.0	250	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Methylene Chloride	U		53.5	125	50	12/19/2018 21:02	<a href="#">WG1213125</a>
4-Methyl-2-pentanone (MIBK)	U		41.2	250	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Methyl tert-butyl ether	U		5.10	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Naphthalene	U		8.70	125	50	12/19/2018 21:02	<a href="#">WG1213125</a>
n-Propylbenzene	U		8.10	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Styrene	U		5.85	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,1,1,2-Tetrachloroethane	U		6.00	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,1,2,2-Tetrachloroethane	U		6.50	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,1,2-Trichlorotrifluoroethane	U		8.20	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Tetrachloroethene	9650		9.95	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Toluene	U		20.6	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2,3-Trichlorobenzene	U		8.20	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2,4-Trichlorobenzene	U		17.8	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,1,1-Trichloroethane	U		4.70	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,1,2-Trichloroethane	U		9.30	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Trichloroethene	3220		7.65	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Trichlorofluoromethane	U		6.50	125	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2,3-Trichloropropane	U		12.4	125	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2,4-Trimethylbenzene	U		6.15	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,2,3-Trimethylbenzene	U		3.70	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
1,3,5-Trimethylbenzene	U		6.20	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		32.2	250	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Vinyl chloride	1420		5.90	25.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
Xylenes, Total	U		15.8	75.0	50	12/19/2018 21:02	<a href="#">WG1213125</a>
(S) Toluene-d8	104			80.0-120		12/19/2018 21:02	<a href="#">WG1213125</a>
(S) Toluene-d8	103			80.0-120		12/21/2018 17:19	<a href="#">WG1214284</a>
(S) Dibromofluoromethane	98.3			75.0-120		12/19/2018 21:02	<a href="#">WG1213125</a>
(S) Dibromofluoromethane	94.3			75.0-120		12/21/2018 17:19	<a href="#">WG1214284</a>
(S) 4-Bromofluorobenzene	103			77.0-126		12/19/2018 21:02	<a href="#">WG1213125</a>
(S) 4-Bromofluorobenzene	108			77.0-126		12/21/2018 17:19	<a href="#">WG1214284</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1053929-02 WG1213125: Diluted due to high levels of target analytes.



Method Blank (MB)

(MB) R3370909-1 12/21/18 12:07

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	2870	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1053462-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1053462-02 12/21/18 12:25 • (DUP) R3370909-3 12/21/18 12:35

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	299000	297000	1	0.833		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

L1052876-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1052876-01 12/21/18 15:46 • (DUP) R3370909-5 12/21/18 15:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	114000	113000	1	0.550		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3370909-4 12/21/18 13:50

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	99200	99.2	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3369443-1 12/18/18 10:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L1053961-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1053961-01 12/18/18 14:02 • (DUP) R3369443-3 12/18/18 14:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	8240	8710	1	5.56		15
Nitrate	467	501	1	6.90		15
Sulfate	67700	72000	1	6.23		15

L1053966-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1053966-04 12/18/18 21:28 • (DUP) R3369443-6 12/18/18 21:43

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	5110	5300	1	3.79		15
Nitrate	657	673	1	2.44		15
Sulfate	47800	49700	1	3.87		15

Laboratory Control Sample (LCS)

(LCS) R3369443-2 12/18/18 11:07

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39100	97.7	80.0-120	
Nitrate	8000	7990	99.9	80.0-120	
Sulfate	40000	39200	98.1	80.0-120	

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



L1053961-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053961-01 12/18/18 14:02 • (MS) R3369443-4 12/18/18 14:34 • (MSD) R3369443-5 12/18/18 14:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	8240	55100	56300	93.8	96.1	1	80.0-120			2.04	15
Nitrate	5000	467	5080	5180	92.3	94.3	1	80.0-120			1.97	15
Sulfate	50000	67700	113000	115000	90.5	94.6	1	80.0-120	E	E	1.76	15

L1053966-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1053966-04 12/18/18 21:28 • (MS) R3369443-7 12/18/18 21:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	5110	53800	97.4	1	80.0-120	
Nitrate	5000	657	5480	96.4	1	80.0-120	
Sulfate	50000	47800	95200	94.8	1	80.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3373226-1 01/02/19 09:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	158	↓	102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1053679-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1053679-03 01/02/19 11:51 • (DUP) R3373226-3 01/02/19 12:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1980	2030	1	2.24		20

L1053814-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1053814-01 01/02/19 17:37 • (DUP) R3373226-6 01/02/19 17:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	4690	4540	1	3.06		20

Laboratory Control Sample (LCS)

(LCS) R3373226-2 01/02/19 10:36

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	76300	102	85.0-115	

L1053685-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053685-05 01/02/19 15:39 • (MS) R3373226-4 01/02/19 15:58 • (MSD) R3373226-5 01/02/19 16:18

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	2070	54100	53900	104	104	1	80.0-120			0.371	20

L1053973-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053973-01 01/02/19 19:51 • (MS) R3373226-7 01/02/19 20:12 • (MSD) R3373226-8 01/02/19 20:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	23700	74500	74500	102	102	1	80.0-120			0.000	20



Method Blank (MB)

(MB) R3370149-1 12/20/18 14:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3370149-2 12/20/18 14:31 • (LCSD) R3370149-3 12/20/18 14:35

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	4960	5080	99.2	102	80.0-120			2.33	20
Manganese	50.0	48.3	50.2	96.7	100	80.0-120			3.83	20

5 Sr

6 Qc

L1053590-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1053590-11 12/20/18 14:38 • (MS) R3370149-5 12/20/18 14:46 • (MSD) R3370149-6 12/20/18 14:50

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	U	4980	4920	99.6	98.5	1	75.0-125			1.14	20
Manganese	50.0	U	48.7	48.5	97.4	97.1	1	75.0-125			0.380	20

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3370072-5 12/19/18 11:57

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	34.0	J	31.6	100
(S) a,a,a-Trifluorotoluene(FID)	88.3			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3370072-3 12/19/18 10:53 • (LCSD) R3370072-4 12/19/18 11:15

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5410	5400	98.3	98.1	70.0-124			0.239	20
(S) a,a,a-Trifluorotoluene(FID)				105	105	78.0-120				

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3370532-1 12/21/18 13:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1054041-22 Original Sample (OS) • Duplicate (DUP)

(OS) L1054041-22 12/21/18 13:46 • (DUP) R3370532-2 12/21/18 13:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1054041-24 Original Sample (OS) • Duplicate (DUP)

(OS) L1054041-24 12/21/18 13:54 • (DUP) R3370532-3 12/21/18 16:05

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3370532-4 12/21/18 16:09 • (LCSD) R3370532-5 12/21/18 16:11

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	69.7	70.9	103	105	85.0-115			1.71	20
Ethane	129	114	117	88.1	90.7	85.0-115			2.85	20
Ethene	127	112	116	88.4	91.2	85.0-115			3.19	20



Method Blank (MB)

(MB) R3370177-3 12/19/18 13:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3370177-3 12/19/18 13:50

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	102			75.0-120
(S) 4-Bromofluorobenzene	106			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3370177-1 12/19/18 12:12 • (LCSD) R3370177-2 12/19/18 12:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	147	148	118	118	19.0-160			0.492	27
Acrylonitrile	125	134	139	107	111	55.0-149			3.63	20
Benzene	25.0	25.4	25.6	102	103	70.0-123			1.01	20
Bromobenzene	25.0	27.0	28.0	108	112	73.0-121			3.81	20
Bromodichloromethane	25.0	24.9	24.6	99.6	98.5	75.0-120			1.09	20
Bromochloromethane	25.0	24.8	24.8	99.1	99.1	76.0-122			0.0711	20
Bromoform	25.0	26.9	27.2	108	109	68.0-132			1.13	20
Bromomethane	25.0	28.5	30.2	114	121	10.0-160			5.85	25
n-Butylbenzene	25.0	25.1	25.7	101	103	73.0-125			2.19	20
sec-Butylbenzene	25.0	25.6	26.2	102	105	75.0-125			2.36	20
tert-Butylbenzene	25.0	24.6	25.6	98.4	103	76.0-124			4.13	20
Carbon disulfide	25.0	26.5	27.7	106	111	61.0-128			4.25	20
Carbon tetrachloride	25.0	22.8	23.7	91.3	95.0	68.0-126			3.91	20
Chlorobenzene	25.0	24.4	24.2	97.6	96.9	80.0-121			0.768	20
Chlorodibromomethane	25.0	24.5	22.7	97.9	91.0	77.0-125			7.34	20
Chloroethane	25.0	26.8	28.7	107	115	47.0-150			6.79	20
Chloroform	25.0	25.3	25.9	101	103	73.0-120			2.19	20
Chloromethane	25.0	25.7	27.4	103	110	41.0-142			6.29	20
2-Chlorotoluene	25.0	26.4	26.8	105	107	76.0-123			1.64	20
4-Chlorotoluene	25.0	27.2	27.3	109	109	75.0-122			0.464	20
1,2-Dibromo-3-Chloropropane	25.0	25.9	26.4	104	105	58.0-134			1.81	20
1,2-Dibromoethane	25.0	24.5	24.2	98.1	96.7	80.0-122			1.40	20
Dibromomethane	25.0	26.1	25.9	104	104	80.0-120			0.671	20
1,2-Dichlorobenzene	25.0	25.5	26.0	102	104	79.0-121			2.13	20
1,3-Dichlorobenzene	25.0	25.1	25.4	100	101	79.0-120			1.03	20
1,4-Dichlorobenzene	25.0	25.2	25.4	101	102	79.0-120			0.825	20
Dichlorodifluoromethane	25.0	33.1	34.5	132	138	51.0-149			4.35	20
1,1-Dichloroethane	25.0	25.3	26.5	101	106	70.0-126			4.63	20
1,2-Dichloroethane	25.0	26.4	26.1	106	104	70.0-128			1.41	20
1,1-Dichloroethene	25.0	25.1	26.9	101	108	71.0-124			6.87	20
cis-1,2-Dichloroethene	25.0	25.7	26.6	103	107	73.0-120			3.74	20
trans-1,2-Dichloroethene	25.0	25.1	26.2	100	105	73.0-120			4.45	20
1,2-Dichloropropane	25.0	27.9	26.4	112	106	77.0-125			5.59	20
1,1-Dichloropropene	25.0	26.6	27.3	107	109	74.0-126			2.48	20
1,3-Dichloropropane	25.0	25.7	25.0	103	100	80.0-120			2.77	20
cis-1,3-Dichloropropene	25.0	26.4	25.4	105	102	80.0-123			3.69	20
trans-1,3-Dichloropropene	25.0	25.8	25.2	103	101	78.0-124			2.38	20
trans-1,4-Dichloro-2-butene	25.0	24.8	25.9	99.1	104	33.0-144			4.35	20
2,2-Dichloropropane	25.0	26.8	27.1	107	108	58.0-130			0.976	20
Di-isopropyl ether	25.0	23.8	24.2	95.2	96.9	58.0-138			1.73	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3370177-1 12/19/18 12:12 • (LCSD) R3370177-2 12/19/18 12:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.6	24.2	98.6	97.0	79.0-123			1.59	20
Hexachloro-1,3-butadiene	25.0	20.1	20.0	80.3	80.2	54.0-138			0.165	20
2-Hexanone	125	130	126	104	101	67.0-149			3.04	20
n-Hexane	25.0	26.9	27.6	108	110	57.0-133			2.65	20
Iodomethane	125	122	128	97.3	102	33.0-147			4.86	26
Isopropylbenzene	25.0	27.1	27.9	108	112	76.0-127			3.08	20
p-Isopropyltoluene	25.0	24.1	25.5	96.3	102	76.0-125			5.86	20
2-Butanone (MEK)	125	145	143	116	115	44.0-160			0.940	20
Methylene Chloride	25.0	24.7	25.8	98.8	103	67.0-120			4.13	20
4-Methyl-2-pentanone (MIBK)	125	125	115	99.8	92.4	68.0-142			7.72	20
Methyl tert-butyl ether	25.0	26.5	27.0	106	108	68.0-125			1.78	20
Naphthalene	25.0	22.7	23.1	91.0	92.3	54.0-135			1.46	20
n-Propylbenzene	25.0	26.5	27.5	106	110	77.0-124			3.84	20
Styrene	25.0	27.5	27.9	110	112	73.0-130			1.47	20
1,1,1,2-Tetrachloroethane	25.0	23.7	23.2	94.7	92.9	75.0-125			1.85	20
1,1,2,2-Tetrachloroethane	25.0	28.5	28.6	114	115	65.0-130			0.346	20
1,1,2-Trichlorotrifluoroethane	25.0	26.7	28.2	107	113	69.0-132			5.65	20
Tetrachloroethene	25.0	23.6	22.9	94.5	91.7	72.0-132			3.04	20
Toluene	25.0	24.8	24.3	99.2	97.0	79.0-120			2.22	20
1,2,3-Trichlorobenzene	25.0	19.1	19.4	76.3	77.7	50.0-138			1.89	20
1,2,4-Trichlorobenzene	25.0	20.9	21.5	83.8	86.2	57.0-137			2.80	20
1,1,1-Trichloroethane	25.0	25.4	25.4	101	102	73.0-124			0.266	20
1,1,2-Trichloroethane	25.0	25.4	24.4	101	97.8	80.0-120			3.71	20
Trichloroethene	25.0	25.3	24.3	101	97.2	78.0-124			3.81	20
Trichlorofluoromethane	25.0	26.7	28.2	107	113	59.0-147			5.40	20
1,2,3-Trichloropropane	25.0	26.0	25.7	104	103	73.0-130			1.28	20
1,2,4-Trimethylbenzene	25.0	24.9	26.7	99.7	107	76.0-121			6.89	20
1,2,3-Trimethylbenzene	25.0	24.5	25.5	98.0	102	77.0-120			4.03	20
1,3,5-Trimethylbenzene	25.0	25.9	26.6	104	106	76.0-122			2.39	20
Vinyl acetate	125	150	149	120	119	11.0-160			0.915	20
Vinyl chloride	25.0	28.1	30.3	112	121	67.0-131			7.61	20
Xylenes, Total	75.0	69.7	66.2	92.9	88.3	79.0-123			5.15	20
(S) Toluene-d8				101	99.1	80.0-120				
(S) Dibromofluoromethane				99.4	102	75.0-120				
(S) 4-Bromofluorobenzene				107	111	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3370928-5 12/21/18 11:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
(S) Toluene-d8	107			80.0-120
(S) Dibromofluoromethane	93.8			75.0-120
(S) 4-Bromofluorobenzene	106			77.0-126

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3370928-1 12/21/18 09:47 • (LCSD) R3370928-2 12/21/18 10:07

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	25.0	23.5	23.8	94.1	95.0	73.0-120			1.03	20
(S) Toluene-d8				102	102	80.0-120				
(S) Dibromofluoromethane				94.6	94.8	75.0-120				
(S) 4-Bromofluorobenzene				102	102	77.0-126				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

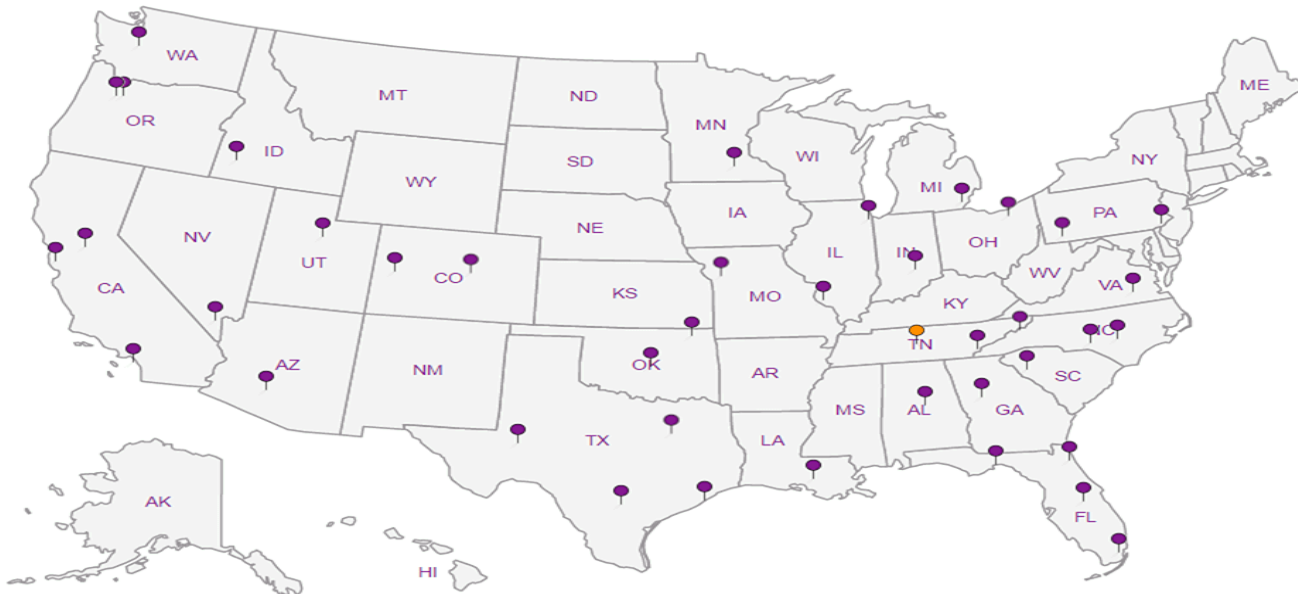
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

# PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

### Billing Information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

### Analysis / Container / Preservative

Chain of Custody Page      of     



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



Report to:  
Brian O'Neal/Bill Haldeman

Email To: [boneal@pesenv.com](mailto:boneal@pesenv.com);  
[bhaldeman@pesenv.com](mailto:bhaldeman@pesenv.com);

Project  
Description: American Linen

City/State  
Collected:

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.601

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
Alyssa Witt

Site/Facility ID #  
American Linen

P.O. #

Collected by (signature):  
Alyssa Witt

Rush? (Lab MUST Be Notified)

Quote #

Same Day  Five Day   
Next Day  5 Day (Rad Only)   
Two Day  10 Day (Rad Only)   
Three Day

Date Results Needed

Immediately   
Packed on ice N  Y

No.  
of  
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,SO4,Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	TOC 250mlAmb-HCl	Total Fe Min 6020 250mlHDPE-HNO3	NWTPHGx 40ml Amb HCl	VOCs (V8260LL) 40ml Amb HCl	Remarks	Sample # (lab only)
MW-138-121718	Grab	GW	110	12/17/18	11:25	6						X	X		-01
MW-130-121718	Grab	GW	75	12/17/18	13:20	12	X	X	X	X	X	X	X		02

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

### Remarks:

Samples returned via:  
UPS  FedEx  Courier

Tracking # 2466 1466 2190

pH      Temp       
Flow      Other     

Sample Receipt Checklist	
DOC Seal Present/Intact:	NP <input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
DOC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/>
RAD SCREEN	

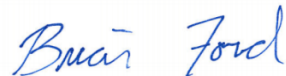
Relinquished by: (Signature) Alyssa Witt	Date: 12/17/18	Time: 16:00	Received by: (Signature) [Signature]	Trip Blank Received: Yes/No HCl/MeOH TBR	Temp: °C 0.3 to 1 = 0.4% 18	If preservation required by Login: Date/Time	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C	Hold:		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [Signature]	Date: 12/18/18	Time: 845	Condition: NCF / OK	

January 07, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1055718  
Samples Received: 12/22/2018  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	<b>2</b> Tc
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	<b>3</b> Ss
<b>MW-112-122118 L1055718-01</b>	<b>5</b>	
<b>TRIP BLANK L1055718-02</b>	<b>8</b>	<b>4</b> Cn
<b>Qc: Quality Control Summary</b>	<b>10</b>	<b>5</b> Sr
<b>Wet Chemistry by Method 2320 B-2011</b>	<b>10</b>	
<b>Wet Chemistry by Method 9056A</b>	<b>11</b>	<b>6</b> Qc
<b>Wet Chemistry by Method 9060A</b>	<b>13</b>	
<b>Metals (ICPMS) by Method 6020B</b>	<b>14</b>	<b>7</b> Gl
<b>Volatile Organic Compounds (GC) by Method NWTPHGX</b>	<b>15</b>	<b>8</b> Al
<b>Volatile Organic Compounds (GC) by Method RSK175</b>	<b>16</b>	
<b>Volatile Organic Compounds (GC/MS) by Method 8260C</b>	<b>17</b>	<b>9</b> Sc
<b>Gl: Glossary of Terms</b>	<b>21</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>22</b>	
<b>Sc: Sample Chain of Custody</b>	<b>23</b>	

# SAMPLE SUMMARY



## MW-112-122118 L1055718-01 GW

Collected by Alyssa Witt      Collected date/time 12/21/18 10:55      Received date/time 12/22/18 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1218198	1	01/03/19 15:25	01/03/19 15:25	GB
Wet Chemistry by Method 9056A	WG1214970	1	12/22/18 16:08	12/22/18 16:08	MCG
Wet Chemistry by Method 9060A	WG1218534	1	01/05/19 08:17	01/05/19 08:17	EEM
Metals (ICPMS) by Method 6020B	WG1215758	1	12/27/18 07:50	12/27/18 14:53	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1215499	1	12/24/18 16:39	12/24/18 16:39	ACE
Volatile Organic Compounds (GC) by Method RSK175	WG1216205	1	12/28/18 09:04	12/28/18 09:04	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1215942	1	12/26/18 13:46	12/26/18 13:46	JAH

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

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Gl

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Al

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Sc

## TRIP BLANK L1055718-02 GW

Collected by Alyssa Witt      Collected date/time 12/21/18 00:00      Received date/time 12/22/18 09:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1215942	1	12/26/18 12:47	12/26/18 12:47	JAH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	41600		2710	20000	1	01/03/2019 15:25	<a href="#">WG1218198</a>

Sample Narrative:

L1055718-01 WG1218198: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	9720		51.9	1000	1	12/22/2018 16:08	<a href="#">WG1214970</a>
Nitrate	68.3	J	22.7	100	1	12/22/2018 16:08	<a href="#">WG1214970</a>
Sulfate	342	J	77.4	5000	1	12/22/2018 16:08	<a href="#">WG1214970</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5510		102	1000	1	01/05/2019 08:17	<a href="#">WG1218534</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	22600		15.0	100	1	12/27/2018 14:53	<a href="#">WG1215758</a>
Manganese	573		0.250	5.00	1	12/27/2018 14:53	<a href="#">WG1215758</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/24/2018 16:39	<a href="#">WG1215499</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	104			78.0-120		12/24/2018 16:39	<a href="#">WG1215499</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	373		0.287	0.678	1	12/28/2018 09:04	<a href="#">WG1216205</a>
Ethane	U		0.296	1.29	1	12/28/2018 09:04	<a href="#">WG1216205</a>
Ethene	U		0.422	1.27	1	12/28/2018 09:04	<a href="#">WG1216205</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.50	J	1.05	25.0	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Acrylonitrile	U		0.873	5.00	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Benzene	U		0.0896	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromobenzene	U		0.133	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromodichloromethane	U		0.0800	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromochloromethane	U		0.145	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromoform	U		0.186	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromomethane	U		0.157	2.50	1	12/26/2018 13:46	<a href="#">WG1215942</a>
n-Butylbenzene	U		0.143	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
sec-Butylbenzene	U		0.134	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
tert-Butylbenzene	U		0.183	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Carbon disulfide	U		0.101	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Carbon tetrachloride	U		0.159	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	12/26/2018 13:46	WG1215942
Chlorodibromomethane	U		0.128	0.500	1	12/26/2018 13:46	WG1215942
Chloroethane	U		0.141	2.50	1	12/26/2018 13:46	WG1215942
Chloroform	U		0.0860	0.500	1	12/26/2018 13:46	WG1215942
Chloromethane	U		0.153	1.25	1	12/26/2018 13:46	WG1215942
2-Chlorotoluene	U		0.111	0.500	1	12/26/2018 13:46	WG1215942
4-Chlorotoluene	U		0.0972	0.500	1	12/26/2018 13:46	WG1215942
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/26/2018 13:46	WG1215942
1,2-Dibromoethane	U		0.193	0.500	1	12/26/2018 13:46	WG1215942
Dibromomethane	U		0.117	0.500	1	12/26/2018 13:46	WG1215942
1,2-Dichlorobenzene	U		0.101	0.500	1	12/26/2018 13:46	WG1215942
1,3-Dichlorobenzene	U		0.130	0.500	1	12/26/2018 13:46	WG1215942
1,4-Dichlorobenzene	U		0.121	0.500	1	12/26/2018 13:46	WG1215942
Dichlorodifluoromethane	U		0.127	2.50	1	12/26/2018 13:46	WG1215942
1,1-Dichloroethane	U		0.114	0.500	1	12/26/2018 13:46	WG1215942
1,2-Dichloroethane	U		0.108	0.500	1	12/26/2018 13:46	WG1215942
1,1-Dichloroethene	U		0.188	0.500	1	12/26/2018 13:46	WG1215942
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/26/2018 13:46	WG1215942
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/26/2018 13:46	WG1215942
1,2-Dichloropropane	U		0.190	0.500	1	12/26/2018 13:46	WG1215942
1,1-Dichloropropene	U		0.128	0.500	1	12/26/2018 13:46	WG1215942
1,3-Dichloropropane	U		0.147	1.00	1	12/26/2018 13:46	WG1215942
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/26/2018 13:46	WG1215942
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/26/2018 13:46	WG1215942
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/26/2018 13:46	WG1215942
2,2-Dichloropropane	U		0.0929	0.500	1	12/26/2018 13:46	WG1215942
Di-isopropyl ether	U		0.0924	0.500	1	12/26/2018 13:46	WG1215942
Ethylbenzene	U		0.158	0.500	1	12/26/2018 13:46	WG1215942
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/26/2018 13:46	WG1215942
2-Hexanone	U		0.757	5.00	1	12/26/2018 13:46	WG1215942
n-Hexane	U		0.305	5.00	1	12/26/2018 13:46	WG1215942
Iodomethane	U		0.377	10.0	1	12/26/2018 13:46	WG1215942
Isopropylbenzene	U		0.126	0.500	1	12/26/2018 13:46	WG1215942
p-Isopropyltoluene	U		0.138	0.500	1	12/26/2018 13:46	WG1215942
2-Butanone (MEK)	U		1.28	5.00	1	12/26/2018 13:46	WG1215942
Methylene Chloride	U		1.07	2.50	1	12/26/2018 13:46	WG1215942
4-Methyl-2-pentanone (MIBK)	1.06	U	0.823	5.00	1	12/26/2018 13:46	WG1215942
Methyl tert-butyl ether	U		0.102	0.500	1	12/26/2018 13:46	WG1215942
Naphthalene	U		0.174	2.50	1	12/26/2018 13:46	WG1215942
n-Propylbenzene	U		0.162	0.500	1	12/26/2018 13:46	WG1215942
Styrene	U		0.117	0.500	1	12/26/2018 13:46	WG1215942
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/26/2018 13:46	WG1215942
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/26/2018 13:46	WG1215942
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/26/2018 13:46	WG1215942
Tetrachloroethene	U		0.199	0.500	1	12/26/2018 13:46	WG1215942
Toluene	U		0.412	0.500	1	12/26/2018 13:46	WG1215942
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/26/2018 13:46	WG1215942
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/26/2018 13:46	WG1215942
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/26/2018 13:46	WG1215942
1,1,2-Trichloroethane	U		0.186	0.500	1	12/26/2018 13:46	WG1215942
Trichloroethene	U		0.153	0.500	1	12/26/2018 13:46	WG1215942
Trichlorofluoromethane	U		0.130	2.50	1	12/26/2018 13:46	WG1215942
1,2,3-Trichloropropane	U		0.247	2.50	1	12/26/2018 13:46	WG1215942
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/26/2018 13:46	WG1215942
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/26/2018 13:46	WG1215942
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/26/2018 13:46	WG1215942

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Vinyl chloride	U		0.118	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Xylenes, Total	U		0.316	1.50	1	12/26/2018 13:46	<a href="#">WG1215942</a>
<i>(S) Toluene-d8</i>	102			80.0-120		12/26/2018 13:46	<a href="#">WG1215942</a>
<i>(S) Dibromofluoromethane</i>	101			75.0-120		12/26/2018 13:46	<a href="#">WG1215942</a>
<i>(S) 4-Bromofluorobenzene</i>	109			77.0-126		12/26/2018 13:46	<a href="#">WG1215942</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 12/21/18 00:00

L1055718

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Acrylonitrile	U		0.873	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Benzene	0.135	J	0.0896	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromobenzene	U		0.133	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromodichloromethane	U		0.0800	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromochloromethane	U		0.145	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromoform	U		0.186	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromomethane	U		0.157	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
n-Butylbenzene	U		0.143	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
sec-Butylbenzene	U		0.134	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
tert-Butylbenzene	U		0.183	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Carbon disulfide	U		0.101	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Carbon tetrachloride	U		0.159	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chlorobenzene	U		0.140	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chlorodibromomethane	U		0.128	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chloroethane	U		0.141	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chloroform	U		0.0860	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chloromethane	U		0.153	1.25	1	12/26/2018 12:47	<a href="#">WG1215942</a>
2-Chlorotoluene	U		0.111	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Dibromomethane	U		0.117	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Ethylbenzene	U		0.158	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
2-Hexanone	U		0.757	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
n-Hexane	U		0.305	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Iodomethane	U		0.377	10.0	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Isopropylbenzene	U		0.126	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Methylene Chloride	U		1.07	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Naphthalene	0.341	B J	0.174	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
n-Propylbenzene	U		0.162	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Styrene	U		0.117	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 12/21/18 00:00

L1055718

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Tetrachloroethene	U		0.199	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Toluene	U		0.412	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Trichloroethene	0.192	U	0.153	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Vinyl acetate	U		0.645	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Vinyl chloride	U		0.118	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Xylenes, Total	U		0.316	1.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
(S) Toluene-d8	100			80.0-120		12/26/2018 12:47	<a href="#">WG1215942</a>
(S) Dibromofluoromethane	101			75.0-120		12/26/2018 12:47	<a href="#">WG1215942</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/26/2018 12:47	<a href="#">WG1215942</a>

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Method Blank (MB)

(MB) R3373469-1 01/03/19 14:33

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3390	J	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1055697-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1055697-03 01/03/19 15:11 • (DUP) R3373469-2 01/03/19 15:18

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	ND	2820	1	0.000		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Original Sample (OS) • Duplicate (DUP)

(OS) • (DUP) R3373469-5 01/03/19 17:58

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity		556000	1	0.0144		20

Sample Narrative:

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3373469-3 01/03/19 16:07

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	96600	96.6	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3370739-1 12/22/18 08:29

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1055697-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1055697-01 12/22/18 13:33 • (DUP) R3370739-5 12/22/18 13:48

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Nitrate	9140	9210	1	0.767		15

L1055697-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1055697-01 12/22/18 14:04 • (DUP) R3370739-6 12/22/18 14:19

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	467000	472000	5	1.02		15
Sulfate	188000	191000	5	1.46		15

L1055750-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1055750-10 12/22/18 20:14 • (DUP) R3370739-8 12/22/18 20:30

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	5700	5650	1	0.853		15
Nitrate	3400	3380	1	0.787		15
Sulfate	6520	6540	1	0.338		15

Laboratory Control Sample (LCS)

(LCS) R3370739-2 12/22/18 08:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39300	98.2	80.0-120	
Nitrate	8000	8050	101	80.0-120	
Sulfate	40000	39900	99.7	80.0-120	



L1055695-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1055695-01 12/22/18 12:37 • (MS) R3370739-3 12/22/18 12:56 • (MSD) R3370739-4 12/22/18 13:14

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	22200	72600	71100	101	97.7	1	80.0-120			2.08	15
Nitrate	5000	134	5210	5190	101	101	1	80.0-120			0.354	15
Sulfate	50000	9000	62100	61300	106	105	1	80.0-120			1.38	15

L1055750-08 Original Sample (OS) • Matrix Spike (MS)

(OS) L1055750-08 12/22/18 19:13 • (MS) R3370739-7 12/22/18 19:28

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	995	49800	97.7	1	80.0-120	
Nitrate	5000	1070	6020	99.0	1	80.0-120	
Sulfate	50000	319	49900	99.1	1	80.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3373780-1 01/05/19 02:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	141	↓	102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1055603-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1055603-12 01/05/19 03:19 • (DUP) R3373780-3 01/05/19 03:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1610	1620	1	0.744		20

L1056388-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1056388-04 01/05/19 14:39 • (DUP) R3373780-8 01/05/19 14:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	1900	2070	1	8.91		20

Laboratory Control Sample (LCS)

(LCS) R3373780-2 01/05/19 02:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	78000	104	85.0-115	

L1055684-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1055684-03 01/05/19 07:22 • (MS) R3373780-4 01/05/19 07:42 • (MSD) R3373780-5 01/05/19 08:02

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1580	53700	53700	104	104	1	80.0-120			0.0186	20

L1056388-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1056388-02 01/05/19 12:06 • (MS) R3373780-6 01/05/19 12:25 • (MSD) R3373780-7 01/05/19 12:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	4210	54400	54900	100	101	1	80.0-120			0.970	20



Method Blank (MB)

(MB) R3371694-1 12/27/18 14:22

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3371694-2 12/27/18 14:27 • (LCSD) R3371694-3 12/27/18 14:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5000	4990	100	99.8	80.0-120			0.316	20
Manganese	50.0	49.8	49.1	99.6	98.2	80.0-120			1.42	20

L1055089-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1055089-06 12/27/18 14:35 • (MS) R3371694-5 12/27/18 14:44 • (MSD) R3371694-6 12/27/18 14:48

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	1260	6380	6330	102	101	1	75.0-125			0.838	20
Manganese	50.0	112	160	160	97.6	97.4	1	75.0-125			0.0425	20





Method Blank (MB)

(MB) R3372194-5 12/24/18 11:58

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	102			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3372194-3 12/24/18 10:44 • (LCSD) R3372194-4 12/24/18 11:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5570	5520	101	100	70.0-124			0.966	20
(S) a,a,a-Trifluorotoluene(FID)				90.8	90.3	78.0-120				

L1055580-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1055580-01 12/24/18 14:33 • (MS) R3372194-8 12/24/18 20:46 • (MSD) R3372194-9 12/24/18 21:08

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	ND	4280	4570	77.7	83.0	1	10.0-155			6.59	21
(S) a,a,a-Trifluorotoluene(FID)					96.7	95.4		78.0-120				



Method Blank (MB)

(MB) R3371765-1 12/28/18 08:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1055520-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1055520-02 12/28/18 08:55 • (DUP) R3371765-2 12/28/18 08:57

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1055718-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1055718-01 12/28/18 09:04 • (DUP) R3371765-3 12/28/18 09:10

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	373	373	1	0.000216		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3371765-4 12/28/18 09:14 • (LCSD) R3371765-5 12/28/18 09:19

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	71.2	75.5	105	111	85.0-115			5.81	20
Ethane	129	116	119	89.9	91.9	85.0-115			2.21	20
Ethene	127	115	116	90.5	91.7	85.0-115			1.34	20



Method Blank (MB)

(MB) R3372296-3 12/26/18 11:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3372296-3 12/26/18 11:44

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	0.416	U	0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	0.134	U	0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	101			80.0-120
(S) Dibromofluoromethane	99.5			75.0-120
(S) 4-Bromofluorobenzene	107			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3372296-1 12/26/18 10:25 • (LCSD) R3372296-2 12/26/18 10:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	133	123	107	98.0	19.0-160			8.30	27
Acrylonitrile	125	135	128	108	102	55.0-149			5.48	20
Benzene	25.0	25.1	25.0	100	99.8	70.0-123			0.385	20
Bromobenzene	25.0	27.9	28.2	112	113	73.0-121			1.13	20
Bromodichloromethane	25.0	25.4	24.9	102	99.6	75.0-120			2.12	20
Bromochloromethane	25.0	25.1	22.9	100	91.5	76.0-122			9.31	20
Bromoform	25.0	27.7	28.2	111	113	68.0-132			1.93	20
Bromomethane	25.0	28.5	27.9	114	112	10.0-160			2.02	25
n-Butylbenzene	25.0	24.5	25.2	98.2	101	73.0-125			2.80	20
sec-Butylbenzene	25.0	25.8	25.8	103	103	75.0-125			0.238	20
tert-Butylbenzene	25.0	25.0	24.9	100	99.7	76.0-124			0.439	20
Carbon disulfide	25.0	27.2	27.2	109	109	61.0-128			0.134	20
Carbon tetrachloride	25.0	21.9	21.9	87.8	87.4	68.0-126			0.393	20
Chlorobenzene	25.0	25.0	24.2	99.9	96.9	80.0-121			2.96	20
Chlorodibromomethane	25.0	24.6	25.1	98.4	101	77.0-125			2.07	20
Chloroethane	25.0	26.1	25.9	105	103	47.0-150			1.04	20
Chloroform	25.0	25.5	24.5	102	98.1	73.0-120			3.97	20
Chloromethane	25.0	24.7	25.2	98.6	101	41.0-142			2.22	20
2-Chlorotoluene	25.0	27.2	26.4	109	106	76.0-123			2.98	20
4-Chlorotoluene	25.0	27.2	27.0	109	108	75.0-122			0.768	20
1,2-Dibromo-3-Chloropropane	25.0	23.9	23.8	95.6	95.0	58.0-134			0.657	20
1,2-Dibromoethane	25.0	25.5	25.0	102	100	80.0-122			1.84	20
Dibromomethane	25.0	27.1	26.3	108	105	80.0-120			3.06	20
1,2-Dichlorobenzene	25.0	25.2	24.9	101	99.5	79.0-121			1.51	20
1,3-Dichlorobenzene	25.0	25.0	26.4	100	106	79.0-120			5.39	20
1,4-Dichlorobenzene	25.0	26.2	25.5	105	102	79.0-120			2.77	20
Dichlorodifluoromethane	25.0	33.1	34.9	132	139	51.0-149			5.20	20
1,1-Dichloroethane	25.0	25.3	24.7	101	99.0	70.0-126			2.22	20
1,2-Dichloroethane	25.0	26.4	25.1	106	100	70.0-128			5.28	20
1,1-Dichloroethene	25.0	26.0	27.0	104	108	71.0-124			3.48	20
cis-1,2-Dichloroethene	25.0	26.0	25.2	104	101	73.0-120			2.86	20
trans-1,2-Dichloroethene	25.0	25.8	25.7	103	103	73.0-120			0.571	20
1,2-Dichloropropane	25.0	27.3	26.4	109	106	77.0-125			3.54	20
1,1-Dichloropropene	25.0	26.4	25.7	105	103	74.0-126			2.40	20
1,3-Dichloropropane	25.0	26.7	25.9	107	104	80.0-120			2.96	20
cis-1,3-Dichloropropene	25.0	26.9	26.5	107	106	80.0-123			1.46	20
trans-1,3-Dichloropropene	25.0	26.9	26.7	108	107	78.0-124			0.699	20
trans-1,4-Dichloro-2-butene	25.0	26.4	25.6	106	102	33.0-144			2.99	20
2,2-Dichloropropane	25.0	24.4	22.3	97.7	89.3	58.0-130			8.96	20
Di-isopropyl ether	25.0	23.2	22.9	92.7	91.6	58.0-138			1.16	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3372296-1 12/26/18 10:25 • (LCSD) R3372296-2 12/26/18 10:45

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	24.4	24.5	97.4	97.8	79.0-123			0.443	20
Hexachloro-1,3-butadiene	25.0	22.2	22.5	88.6	90.0	54.0-138			1.59	20
2-Hexanone	125	131	128	105	102	67.0-149			2.85	20
n-Hexane	25.0	27.7	27.7	111	111	57.0-133			0.163	20
Iodomethane	125	122	123	98.0	98.8	33.0-147			0.794	26
Isopropylbenzene	25.0	27.4	28.1	109	112	76.0-127			2.55	20
p-Isopropyltoluene	25.0	24.8	25.3	99.2	101	76.0-125			1.85	20
2-Butanone (MEK)	125	134	125	107	99.8	44.0-160			6.88	20
Methylene Chloride	25.0	24.1	24.0	96.5	95.8	67.0-120			0.728	20
4-Methyl-2-pentanone (MIBK)	125	120	119	96.3	94.9	68.0-142			1.49	20
Methyl tert-butyl ether	25.0	25.6	24.6	102	98.4	68.0-125			3.87	20
Naphthalene	25.0	21.0	21.1	83.8	84.3	54.0-135			0.501	20
n-Propylbenzene	25.0	27.2	27.8	109	111	77.0-124			2.05	20
Styrene	25.0	28.9	28.6	116	114	73.0-130			0.987	20
1,1,1,2-Tetrachloroethane	25.0	23.0	22.8	92.0	91.2	75.0-125			0.805	20
1,1,2,2-Tetrachloroethane	25.0	29.0	28.9	116	115	65.0-130			0.382	20
1,1,2-Trichlorotrifluoroethane	25.0	27.0	27.4	108	109	69.0-132			1.47	20
Tetrachloroethene	25.0	23.5	24.3	94.2	97.3	72.0-132			3.22	20
Toluene	25.0	25.1	25.4	100	101	79.0-120			0.977	20
1,2,3-Trichlorobenzene	25.0	20.0	20.8	80.0	83.3	50.0-138			3.99	20
1,2,4-Trichlorobenzene	25.0	20.7	22.3	82.8	89.0	57.0-137			7.25	20
1,1,1-Trichloroethane	25.0	24.4	24.0	97.6	95.9	73.0-124			1.75	20
1,1,2-Trichloroethane	25.0	26.6	25.6	107	102	80.0-120			4.05	20
Trichloroethene	25.0	24.6	23.8	98.2	95.3	78.0-124			2.97	20
Trichlorofluoromethane	25.0	25.6	26.5	102	106	59.0-147			3.36	20
1,2,3-Trichloropropane	25.0	26.2	25.4	105	102	73.0-130			3.10	20
1,2,4-Trimethylbenzene	25.0	25.8	25.9	103	104	76.0-121			0.464	20
1,2,3-Trimethylbenzene	25.0	25.2	24.1	101	96.5	77.0-120			4.33	20
1,3,5-Trimethylbenzene	25.0	26.0	25.7	104	103	76.0-122			1.09	20
Vinyl acetate	125	159	158	127	126	11.0-160			0.672	20
Vinyl chloride	25.0	27.0	26.6	108	107	67.0-131			1.24	20
Xylenes, Total	75.0	68.4	66.9	91.2	89.2	79.0-123			2.22	20
(S) Toluene-d8				102	103	80.0-120				
(S) Dibromofluoromethane				96.0	96.0	75.0-120				
(S) 4-Bromofluorobenzene				110	116	77.0-126				

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

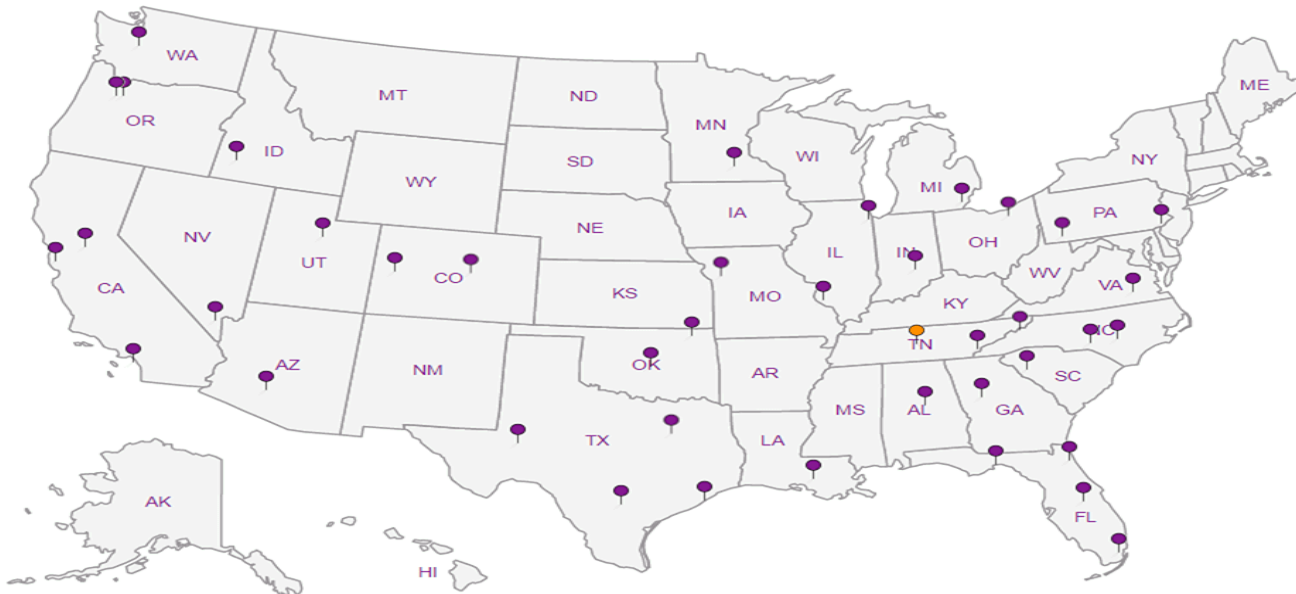
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com;

Project Description: **American Linen**

City/State Collected:

Phone: **206-529-3980**  
Fax: **206-529-3985**

Client Project #  
**1413.001.05.601**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
*Alyssa Witt*

Site/Facility ID #  
*American Linen*

P.O. #

Collected by (signature):  
*Alyssa Witt*

**Rush?** (Lab MUST Be Notified)

Quote #

\_\_\_ Same Day \_\_\_ Five Day  
\_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
\_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
\_\_\_ Three Day

Date Results Needed

No. of Cntrs

Immediately Packed on Ice N \_\_\_ Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	* NO3,SO4,Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (V8260LLC) 40mlAmb-HCl
MW-112-122118	Grab	GW	78	12/21/18	10:55	12	X	X	X	X	X	X	X
Trip Blank-122118	-	GW	-	12/21/18	10:55	1							
		GW											
		GW											

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:  
UPS  FedEx \_\_\_ Courier \_\_\_

Tracking # **4686 6470 3702**

pH \_\_\_ Temp \_\_\_  
Flow \_\_\_ Other \_\_\_

Sample Receipt Checklist	
COC Seal Present/Intact: ___ NP	<input checked="" type="checkbox"/> Y ___ N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y ___ N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y ___ N
Correct bottles used:	<input checked="" type="checkbox"/> Y ___ N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y ___ N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> Y ___ N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y ___ N

**RAD SCREEN: <0.5 mP/hr**

Relinquished by: (Signature) <i>Alyssa Witt</i>	Date: <b>12/21/18</b>	Time: <b>1300</b>	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes / No HCL / MeOH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C <b>0.2-0.1=0.1%</b> <i>W</i>
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: <b>12/22/18</b> Time: <b>09:10</b>

If preservation required by Login: Date/Time

Hold: Condition: **NCF / OK**

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_

Pres Chk **1222**

Face Analytical®  
National Center for Testing & Innovation

12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859

L# **L1055718**  
**D019**

Accnum: **PESENVSWA**  
Template: **T144057**  
Prelogin: **P686414**  
TSR: **110 - Brian Ford**  
PB:

Shipped Via:

Remarks	Sample # (lab only)
	<b>-01</b>

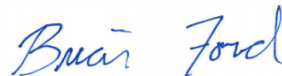
January 10, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1057965  
Samples Received: 01/04/2019  
Project Number:  
Description: American Linen

Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161










Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	
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# SAMPLE SUMMARY



## MW-138-010319 L1057965-01 GW

Collected by Alyssa Witt  
Collected date/time 01/03/19 09:35  
Received date/time 01/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1220272	1	01/09/19 11:14	01/09/19 11:14	GB
Wet Chemistry by Method 9056A	WG1218970	1	01/04/19 19:25	01/04/19 19:25	ELN
Wet Chemistry by Method 9060A	WG1220033	1	01/08/19 02:06	01/08/19 02:06	EEM
Metals (ICPMS) by Method 6020B	WG1219455	1	01/05/19 16:45	01/07/19 21:24	LD
Metals (ICPMS) by Method 6020B	WG1220618	1	01/08/19 17:29	01/08/19 21:59	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1218990	1	01/05/19 09:28	01/05/19 09:28	BMB
Volatile Organic Compounds (GC) by Method RSK175	WG1220690	1	01/09/19 13:23	01/09/19 13:23	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1219077	1	01/04/19 16:23	01/04/19 16:23	TJJ

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## RW-5-010319 L1057965-02 GW

Collected by Alyssa Witt  
Collected date/time 01/03/19 10:50  
Received date/time 01/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1218990	1	01/05/19 09:50	01/05/19 09:50	BMB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1219077	1	01/04/19 16:43	01/04/19 16:43	TJJ

## TRIPBLANK L1057965-03 GW

Collected by Alyssa Witt  
Collected date/time 01/03/19 00:00  
Received date/time 01/04/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1219077	1	01/04/19 13:13	01/04/19 13:13	TJJ



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	125000		2710	20000	1	01/09/2019 11:14	<a href="#">WG1220272</a>

Sample Narrative:

L1057965-01 WG1220272: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14100		51.9	1000	1	01/04/2019 19:25	<a href="#">WG1218970</a>
Nitrate	U		22.7	100	1	01/04/2019 19:25	<a href="#">WG1218970</a>
Sulfate	47500		77.4	5000	1	01/04/2019 19:25	<a href="#">WG1218970</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3900		102	1000	1	01/08/2019 02:06	<a href="#">WG1220033</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2190		15.0	100	1	01/07/2019 21:24	<a href="#">WG1219455</a>
Manganese	375		0.250	5.00	1	01/08/2019 21:59	<a href="#">WG1220618</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/05/2019 09:28	<a href="#">WG1218990</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/05/2019 09:28	<a href="#">WG1218990</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	61.3		0.287	0.678	1	01/09/2019 13:23	<a href="#">WG1220690</a>
Ethane	0.621	J	0.296	1.29	1	01/09/2019 13:23	<a href="#">WG1220690</a>
Ethene	0.573	J	0.422	1.27	1	01/09/2019 13:23	<a href="#">WG1220690</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Acrylonitrile	U		0.873	5.00	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Benzene	U		0.0896	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromobenzene	U		0.133	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromochloromethane	U		0.145	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromoform	U		0.186	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromomethane	U		0.157	2.50	1	01/04/2019 16:23	<a href="#">WG1219077</a>
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Carbon disulfide	U		0.101	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Collected date/time: 01/03/19 09:35

L1057965

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/04/2019 16:23	WG1219077
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 16:23	WG1219077
Chloroethane	U		0.141	2.50	1	01/04/2019 16:23	WG1219077
Chloroform	U		0.0860	0.500	1	01/04/2019 16:23	WG1219077
Chloromethane	U		0.153	1.25	1	01/04/2019 16:23	WG1219077
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 16:23	WG1219077
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 16:23	WG1219077
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 16:23	WG1219077
Dibromomethane	U		0.117	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 16:23	WG1219077
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 16:23	WG1219077
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 16:23	WG1219077
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 16:23	WG1219077
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 16:23	WG1219077
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 16:23	WG1219077
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 16:23	WG1219077
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 16:23	WG1219077
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 16:23	WG1219077
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 16:23	WG1219077
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 16:23	WG1219077
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 16:23	WG1219077
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	01/04/2019 16:23	WG1219077
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 16:23	WG1219077
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 16:23	WG1219077
Ethylbenzene	U		0.158	0.500	1	01/04/2019 16:23	WG1219077
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 16:23	WG1219077
2-Hexanone	U		0.757	5.00	1	01/04/2019 16:23	WG1219077
n-Hexane	U		0.305	5.00	1	01/04/2019 16:23	WG1219077
Iodomethane	U		0.377	10.0	1	01/04/2019 16:23	WG1219077
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 16:23	WG1219077
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 16:23	WG1219077
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 16:23	WG1219077
Methylene Chloride	U		1.07	2.50	1	01/04/2019 16:23	WG1219077
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 16:23	WG1219077
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 16:23	WG1219077
Naphthalene	U		0.174	2.50	1	01/04/2019 16:23	WG1219077
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 16:23	WG1219077
Styrene	U		0.117	0.500	1	01/04/2019 16:23	WG1219077
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 16:23	WG1219077
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 16:23	WG1219077
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 16:23	WG1219077
Tetrachloroethene	U		0.199	0.500	1	01/04/2019 16:23	WG1219077
Toluene	0.442	U	0.412	0.500	1	01/04/2019 16:23	WG1219077
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 16:23	WG1219077
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 16:23	WG1219077
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 16:23	WG1219077
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 16:23	WG1219077
Trichloroethene	U		0.153	0.500	1	01/04/2019 16:23	WG1219077
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 16:23	WG1219077
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 16:23	WG1219077
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 16:23	WG1219077
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 16:23	WG1219077
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 16:23	WG1219077

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Vinyl chloride	U		0.118	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Xylenes, Total	U		0.316	1.50	1	01/04/2019 16:23	<a href="#">WG1219077</a>
<i>(S) Toluene-d8</i>	106			80.0-120		01/04/2019 16:23	<a href="#">WG1219077</a>
<i>(S) Dibromofluoromethane</i>	88.6			75.0-120		01/04/2019 16:23	<a href="#">WG1219077</a>
<i>(S) 4-Bromofluorobenzene</i>	103			77.0-126		01/04/2019 16:23	<a href="#">WG1219077</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	81.5	J	31.6	100	1	01/05/2019 09:50	<a href="#">WG1218990</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/05/2019 09:50	<a href="#">WG1218990</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Acrylonitrile	U		0.873	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Benzene	U		0.0896	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromobenzene	U		0.133	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromochloromethane	U		0.145	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromoform	U		0.186	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromomethane	U		0.157	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Carbon disulfide	U		0.101	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chlorobenzene	U		0.140	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chloroethane	U		0.141	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chloroform	U		0.0860	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chloromethane	U		0.153	1.25	1	01/04/2019 16:43	<a href="#">WG1219077</a>
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Dibromomethane	U		0.117	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Ethylbenzene	U		0.158	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
2-Hexanone	U		0.757	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
n-Hexane	U		0.305	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Iodomethane	U		0.377	10.0	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>



Collected date/time: 01/03/19 10:50

L1057965

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Naphthalene	U		0.174	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Styrene	U		0.117	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Tetrachloroethene	0.477	J	0.199	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Toluene	U		0.412	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Trichloroethene	U		0.153	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Vinyl acetate	U		0.645	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Vinyl chloride	U		0.118	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Xylenes, Total	U		0.316	1.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
(S) Toluene-d8	105			80.0-120		01/04/2019 16:43	<a href="#">WG1219077</a>
(S) Dibromofluoromethane	89.9			75.0-120		01/04/2019 16:43	<a href="#">WG1219077</a>
(S) 4-Bromofluorobenzene	103			77.0-126		01/04/2019 16:43	<a href="#">WG1219077</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/03/19 00:00

L1057965

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Acrylonitrile	U		0.873	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Benzene	U		0.0896	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromobenzene	U		0.133	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromochloromethane	U		0.145	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromoform	U		0.186	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromomethane	U		0.157	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Carbon disulfide	U		0.101	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chlorobenzene	U		0.140	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chloroethane	U		0.141	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chloroform	U		0.0860	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chloromethane	U		0.153	1.25	1	01/04/2019 13:13	<a href="#">WG1219077</a>
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Dibromomethane	U		0.117	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Ethylbenzene	U		0.158	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
2-Hexanone	U		0.757	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
n-Hexane	U		0.305	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Iodomethane	U		0.377	10.0	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Methylene Chloride	U		1.07	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Naphthalene	U		0.174	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Styrene	U		0.117	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/03/19 00:00

L1057965

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Tetrachloroethene	U		0.199	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Toluene	U		0.412	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Trichloroethene	U		0.153	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Vinyl acetate	U		0.645	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Vinyl chloride	U		0.118	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Xylenes, Total	U		0.316	1.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
(S) Toluene-d8	107			80.0-120		01/04/2019 13:13	<a href="#">WG1219077</a>
(S) Dibromofluoromethane	87.4			75.0-120		01/04/2019 13:13	<a href="#">WG1219077</a>
(S) 4-Bromofluorobenzene	103			77.0-126		01/04/2019 13:13	<a href="#">WG1219077</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3374612-1 01/09/19 10:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	4960	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1057347-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1057347-01 01/09/19 10:39 • (DUP) R3374612-3 01/09/19 10:46

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	73000	73800	1	1.11		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

L1058269-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1058269-01 01/09/19 15:16 • (DUP) R3374612-6 01/09/19 15:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	382000	378000	1	0.897		20

Sample Narrative:

OS: Endpoint pH 4.5 HEADSPACE

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3374612-5 01/09/19 13:27

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	93200	93.2	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3373583-1 01/04/19 09:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1057946-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1057946-01 01/04/19 14:23 • (DUP) R3373583-3 01/04/19 14:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	10300	10300	1	0.105		15
Nitrate	491	492	1	0.204		15
Sulfate	9210	9120	1	0.907		15

L1057965-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1057965-01 01/04/19 19:25 • (DUP) R3373583-6 01/04/19 20:13

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Chloride	14100	14100	1	0.640		15
Nitrate	U	0.000	1	0.000		15
Sulfate	47500	47700	1	0.451		15

Laboratory Control Sample (LCS)

(LCS) R3373583-2 01/04/19 10:08

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	ug/l	ug/l	%	%	
Chloride	40000	39400	98.6	80.0-120	
Nitrate	8000	8110	101	80.0-120	
Sulfate	40000	40200	101	80.0-120	



[L1057965-01](#)

L1057946-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1057946-01 01/04/19 14:23 • (MS) R3373583-4 01/04/19 14:54 • (MSD) R3373583-5 01/04/19 15:10

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	10300	60700	60800	101	101	1	80.0-120			0.319	15
Nitrate	5000	491	5840	5850	107	107	1	80.0-120			0.275	15
Sulfate	50000	9210	58200	58300	97.9	98.3	1	80.0-120			0.318	15

L1057965-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1057965-01 01/04/19 19:25 • (MS) R3373583-7 01/04/19 20:29

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	14100	63100	98.0	1	80.0-120	
Nitrate	5000	U	4890	97.8	1	80.0-120	
Sulfate	50000	47500	94500	93.9	1	80.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3374026-1 01/07/19 20:59

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	156	J	102	1000

1 Cp

2 Tc

3 Ss

L1057516-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1057516-08 01/07/19 22:36 • (DUP) R3374026-3 01/07/19 22:49

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	ND	742	1	28.0	J P1	20

4 Cn

5 Sr

L1058471-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1058471-01 01/08/19 05:29 • (DUP) R3374026-8 01/08/19 05:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	2560	2610	1	1.70		20

6 Qc

7 Gl

8 Al

Laboratory Control Sample (LCS)

(LCS) R3374026-2 01/07/19 21:30

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	74100	98.8	85.0-115	

9 Sc

L1057793-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1057793-07 01/08/19 01:16 • (MS) R3374026-4 01/08/19 01:33 • (MSD) R3374026-5 01/08/19 01:53

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	7400	57300	57900	99.8	101	1	80.0-120			1.04	20

L1058435-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1058435-01 01/08/19 04:06 • (MS) R3374026-6 01/08/19 04:24 • (MSD) R3374026-7 01/08/19 04:42

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	7660	57800	58800	100	102	1	80.0-120			1.65	20





Method Blank (MB)

(MB) R3374006-7 01/07/19 18:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iron	U		15.0	100

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3374006-8 01/07/19 18:27 • (LCSD) R3374006-9 01/07/19 18:32

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Iron	5000	5190	5210	104	104	80.0-120			0.403	20

L1057494-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1057494-08 01/07/19 18:36 • (MS) R3374006-11 01/07/19 18:45 • (MSD) R3374006-12 01/07/19 18:49

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Iron	5000	81.1	5420	5180	107	102	1	75.0-125			4.34	20

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3374338-1 01/08/19 21:26

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Manganese	U		0.250	5.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3374338-2 01/08/19 21:31 • (LCSD) R3374338-3 01/08/19 21:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Manganese	50.0	46.6	50.3	93.2	101	80.0-120			7.62	20

<sup>7</sup> Gl

<sup>8</sup> Al

L1058252-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1058252-03 01/08/19 21:40 • (MS) R3374338-5 01/08/19 21:50 • (MSD) R3374338-6 01/08/19 21:54

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Manganese	50.0	5.89	56.8	54.1	102	96.4	1	75.0-125			4.89	20

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3373698-5 01/05/19 05:23

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3373698-3 01/05/19 04:17 • (LCSD) R3373698-4 01/05/19 04:39

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5290	5350	96.3	97.3	70.0-124			1.08	20
(S) a,a,a-Trifluorotoluene(FID)				105	106	78.0-120				

L1057580-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1057580-20 01/05/19 06:08 • (MS) R3373698-8 01/05/19 10:57 • (MSD) R3373698-9 01/05/19 11:19

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	428	4180	4390	68.3	72.0	1	10.0-155			4.80	21
(S) a,a,a-Trifluorotoluene(FID)					97.5	97.2		78.0-120				



Method Blank (MB)

(MB) R3374597-1 01/09/19 11:53

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1058322-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1058322-02 01/09/19 13:52 • (DUP) R3374597-2 01/09/19 13:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1058704-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1058704-01 01/09/19 14:01 • (DUP) R3374597-3 01/09/19 14:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3374597-4 01/09/19 15:05 • (LCSD) R3374597-5 01/09/19 15:08

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	68.9	72.9	102	107	85.0-115			5.67	20
Ethane	129	113	116	87.2	89.7	85.0-115			2.74	20
Ethene	127	112	114	88.4	90.0	85.0-115			1.81	20



Method Blank (MB)

(MB) R3373435-3 01/04/19 11:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3373435-3 01/04/19 11:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	0.473	U	0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	86.6			75.0-120
(S) 4-Bromofluorobenzene	108			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3373435-1 01/04/19 08:35 • (LCSD) R3373435-4 01/04/19 11:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	121	123	97.0	98.5	19.0-160			1.57	27
Acrylonitrile	125	112	113	89.8	90.1	55.0-149			0.380	20
Benzene	25.0	22.7	22.2	90.7	89.0	70.0-123			1.86	20
Bromobenzene	25.0	28.5	28.4	114	114	73.0-121			0.411	20
Bromodichloromethane	25.0	24.6	23.9	98.3	95.7	75.0-120			2.67	20
Bromochloromethane	25.0	23.4	23.3	93.7	93.2	76.0-122			0.505	20
Bromoform	25.0	23.8	23.7	95.0	94.9	68.0-132			0.110	20
Bromomethane	25.0	20.2	19.2	80.6	76.7	10.0-160			4.96	25
n-Butylbenzene	25.0	24.7	24.6	98.9	98.6	73.0-125			0.332	20
sec-Butylbenzene	25.0	30.2	31.1	121	125	75.0-125			2.94	20
tert-Butylbenzene	25.0	30.0	30.9	120	123	76.0-124			2.89	20
Carbon disulfide	25.0	21.9	21.3	87.7	85.3	61.0-128			2.73	20
Carbon tetrachloride	25.0	21.5	21.4	86.2	85.5	68.0-126			0.775	20
Chlorobenzene	25.0	27.4	26.4	109	106	80.0-121			3.68	20
Chlorodibromomethane	25.0	26.2	25.3	105	101	77.0-125			3.53	20
Chloroethane	25.0	22.9	23.1	91.8	92.2	47.0-150			0.497	20
Chloroform	25.0	22.9	22.8	91.5	91.3	73.0-120			0.191	20
Chloromethane	25.0	25.2	24.2	101	96.8	41.0-142			4.05	20
2-Chlorotoluene	25.0	29.2	29.0	117	116	76.0-123			0.684	20
4-Chlorotoluene	25.0	28.8	29.1	115	116	75.0-122			1.11	20
1,2-Dibromo-3-Chloropropane	25.0	17.5	17.3	69.9	69.3	58.0-134			0.865	20
1,2-Dibromoethane	25.0	25.7	25.2	103	101	80.0-122			1.90	20
Dibromomethane	25.0	23.8	24.0	95.2	96.2	80.0-120			0.992	20
1,2-Dichlorobenzene	25.0	23.4	23.3	93.5	93.3	79.0-121			0.173	20
1,3-Dichlorobenzene	25.0	27.4	26.8	110	107	79.0-120			2.27	20
1,4-Dichlorobenzene	25.0	25.4	25.2	102	101	79.0-120			0.773	20
Dichlorodifluoromethane	25.0	23.9	23.6	95.5	94.4	51.0-149			1.18	20
1,1-Dichloroethane	25.0	22.8	22.4	91.3	89.8	70.0-126			1.68	20
1,2-Dichloroethane	25.0	22.3	22.0	89.3	87.9	70.0-128			1.60	20
1,1-Dichloroethene	25.0	22.4	22.2	89.6	88.9	71.0-124			0.758	20
cis-1,2-Dichloroethene	25.0	22.8	22.4	91.2	89.5	73.0-120			1.88	20
trans-1,2-Dichloroethene	25.0	22.4	22.2	89.8	88.8	73.0-120			1.01	20
1,2-Dichloropropane	25.0	26.2	25.6	105	102	77.0-125			2.14	20
1,1-Dichloropropene	25.0	22.8	22.7	91.2	90.7	74.0-126			0.549	20
1,3-Dichloropropane	25.0	26.6	25.9	106	104	80.0-120			2.61	20
cis-1,3-Dichloropropene	25.0	27.0	26.0	108	104	80.0-123			3.66	20
trans-1,3-Dichloropropene	25.0	26.5	25.6	106	103	78.0-124			3.34	20
trans-1,4-Dichloro-2-butene	25.0	18.3	18.8	73.3	75.4	33.0-144			2.83	20
2,2-Dichloropropane	25.0	22.8	21.7	91.3	86.8	58.0-130			5.01	20
Di-isopropyl ether	25.0	24.2	23.9	97.0	95.7	58.0-138			1.33	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3373435-1 01/04/19 08:35 • (LCSD) R3373435-4 01/04/19 11:35

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	25.0	26.3	25.8	105	103	79.0-123			1.64	20
Hexachloro-1,3-butadiene	25.0	25.3	25.4	101	102	54.0-138			0.501	20
2-Hexanone	125	136	133	108	107	67.0-149			1.70	20
n-Hexane	25.0	27.2	26.2	109	105	57.0-133			3.59	20
Iodomethane	125	114	112	91.3	89.6	33.0-147			1.84	26
Isopropylbenzene	25.0	29.2	29.5	117	118	76.0-127			0.910	20
p-Isopropyltoluene	25.0	29.9	29.8	120	119	76.0-125			0.271	20
2-Butanone (MEK)	125	110	111	88.2	88.4	44.0-160			0.271	20
Methylene Chloride	25.0	22.9	22.2	91.7	88.8	67.0-120			3.21	20
4-Methyl-2-pentanone (MIBK)	125	129	127	103	101	68.0-142			1.65	20
Methyl tert-butyl ether	25.0	22.8	23.3	91.2	93.0	68.0-125			2.02	20
Naphthalene	25.0	16.4	17.4	65.4	69.4	54.0-135			5.92	20
n-Propylbenzene	25.0	29.3	29.4	117	117	77.0-124			0.138	20
Styrene	25.0	29.0	29.6	116	118	73.0-130			1.75	20
1,1,1,2-Tetrachloroethane	25.0	27.4	26.7	110	107	75.0-125			2.78	20
1,1,2,2-Tetrachloroethane	25.0	26.6	26.9	106	108	65.0-130			1.25	20
1,1,2-Trichlorotrifluoroethane	25.0	23.5	23.2	94.1	93.0	69.0-132			1.23	20
Tetrachloroethene	25.0	27.5	26.9	110	107	72.0-132			2.30	20
Toluene	25.0	25.5	24.8	102	99.0	79.0-120			2.95	20
1,2,3-Trichlorobenzene	25.0	20.7	21.0	82.8	83.8	50.0-138			1.29	20
1,2,4-Trichlorobenzene	25.0	22.3	22.7	89.2	91.0	57.0-137			1.98	20
1,1,1-Trichloroethane	25.0	22.7	22.4	90.8	89.5	73.0-124			1.47	20
1,1,2-Trichloroethane	25.0	26.7	26.3	107	105	80.0-120			1.40	20
Trichloroethene	25.0	25.0	24.9	100	99.6	78.0-124			0.462	20
Trichlorofluoromethane	25.0	18.7	18.2	74.6	72.9	59.0-147			2.35	20
1,2,3-Trichloropropane	25.0	27.0	28.2	108	113	73.0-130			4.08	20
1,2,4-Trimethylbenzene	25.0	29.4	29.7	118	119	76.0-121			0.948	20
1,2,3-Trimethylbenzene	25.0	26.1	26.0	105	104	77.0-120			0.403	20
1,3,5-Trimethylbenzene	25.0	29.7	30.5	119	122	76.0-122			2.63	20
Vinyl acetate	125	149	131	120	105	11.0-160			13.3	20
Vinyl chloride	25.0	24.5	24.8	98.2	99.0	67.0-131			0.844	20
Xylenes, Total	75.0	81.0	78.6	108	105	79.0-123			3.01	20
(S) Toluene-d8				103	101	80.0-120				
(S) Dibromofluoromethane				86.2	87.4	75.0-120				
(S) 4-Bromofluorobenzene				107	112	77.0-126				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: Calibration verification outside of acceptance limits. Result is estimated.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

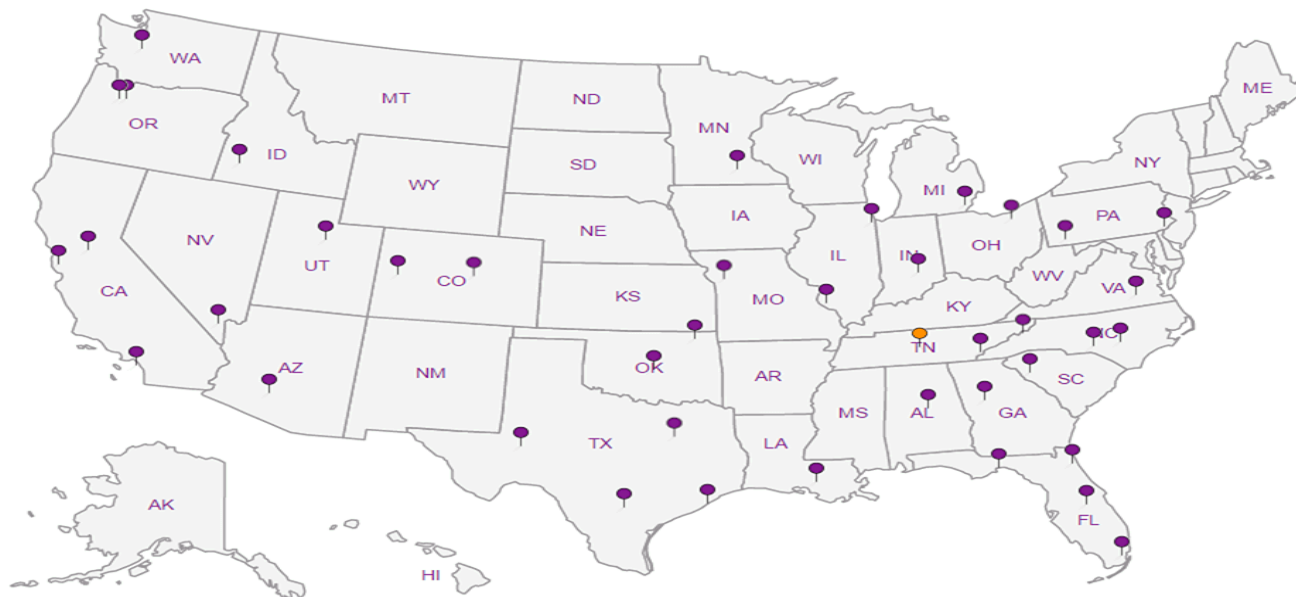
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Company: **P&S Environmental, Inc. WA** Billing Information: **Attn: Accounts Payable**  
 Address: **1215 Fourth Ave, Suite 1350** **1215 Fourth Ave. Ste 1350**  
**Seattle, WA 98101** **Seattle WA 98101**  
 Report To: **Brian Ornel / Bill Haldeman** Email To: **b.orneal@pesenv.com**  
 Copy To: Site Collection Info/Address:  
 Customer Project Name/Number: **American Linen** State: **WA** County/City: **Seattle** Time Zone Collected: **[ ] PT [ ] MT [ ] CT [ ] ET**  
 Phone: **206-529-3980** Site/Facility ID #: **P&SENVSWA-ALP** Compliance Monitoring? **[ ] Yes [ ] No**  
 Email: **Alyssa Witt** Purchase Order #: DW PWS ID #: DW Location Code:  
 Collected By (print): **Alyssa Witt** Quote #: Turnaround Date Required: Immediately Packed on Ice: **[ ] Yes [ ] No**  
 Collected By (signature): **Alyssa Witt** Rush: **[ ] Same Day [ ] Next Day** Field Filtered (if applicable): **[ ] Yes [ ] No**  
 Sample Disposal: **[ ] Dispose as appropriate [ ] Return** **[ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day** Analysis:  
**[ ] Archive:** **[ ] Hold:** (Expedite Charges Apply)

Container Preservative Type \*\*  
 Lab Project Manager:  
 \*\* Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

ALL SHADED AREAS are for LAB USE ONLY

\* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
MW-138-010319	GW	Grab	1/3/19	0935				12
RW-5-010319	GW	Grab	1/3/19	1050				6
Trip Blank K	GW							1

Analyses

X	X	X	X	X	X	X	X
* NO3, SO4, Cl	Alkalinity	EEM (ESK175LL)	NWTPH 6x 40ml Amb	TDC 250 Amb	Total Fe Mn Co Zn	VOCs (V8200LLE)	40ml Amb HCL
	125 ml HDPE-NO PRES	40ml Amb-HCL	HCL	HCL	250ml HDPE-HNO3	40ml Amb HCL	

Lab Profile/Line:  
 Lab Sample Receipt Checklist:  
 Custody Seals Present/Intact Y N NA  
 Custody Signatures Present Y N NA  
 Collector Signature Present Y N NA  
 Bottles Intact Y N NA  
 Correct Bottles Y N NA  
 Sufficient Volume Y N NA  
 Samples Received on Ice Y N NA  
 VOA - Headspace Acceptable Y N NA  
 USDA Regulated Soils Y N NA  
 Samples in Holding Time Y N NA  
 Residual Chlorine Present Y N NA  
 Cl Strips:  
 Sample pH Acceptable Y N NA  
 pH Strips:  
 Sulfide Present Y N NA  
 Lead Acetate Strips:

LAB USE ONLY:  
 Lab Sample # / Comments:  
 L1057965-01  
 02  
 03

Customer Remarks / Special Conditions / Possible Hazards: **0.5m**  
 Type of Ice Used: **Wet** Blue Dry None  
 Packing Material Used:  
 Radchem sample(s) screened (<500 cpm): **Y N NA**

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**  
 Lab Tracking #: **7466 1466 5214**  
 Samples received via: **FEDEX** UPS Client Courier Pace Courier

Lab Sample Temperature Info:  
 Temp Blank Received: **Y N NA**  
 Therm ID#: **JRA3**  
 Cooler 1 Temp Upon Receipt: **23** oC  
 Cooler 1 Therm Corr. Factor: **0.0** oC  
 Cooler 1 Corrected Temp: **23** oC  
 Comments:

Relinquished by/Company: (Signature) **Alyssa Witt** Date/Time: **1/3/19 1200**  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished by/Company: (Signature) \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received by/Company: (Signature) **Shannon** Date/Time: **08:45 01/04/19**

Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Date/Time: \_\_\_\_\_  
 Accountnum:  
 Template:  
 Prelogin:  
 PM:  
 PB:

Trip Blank Received: **Y** N NA  
 HCL MeOH TSP Other  
 Non Conformance(s): **YES / NO** Page: \_\_\_\_\_ of: \_\_\_\_\_

January 30, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1063581  
Samples Received: 01/23/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Jason Romer  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>5</b>
<b>Sr: Sample Results</b>	<b>6</b>
MW-155-012119 L1063581-01	6
MW-154-012119 L1063581-02	8
MW-159-012119 L1063581-03	10
MW-9-012119 L1063581-04	12
MW-125-012119 L1063581-05	14
MW-119-012119 L1063581-06	16
MW-153-012219 L1063581-07	18
MW-147-012219 L1063581-08	21
MW-146-012219 L1063581-09	24
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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc



# SAMPLE SUMMARY



## MW-155-012119 L1063581-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Alyssa Witt				Collected date/time 01/21/19 12:15	Received date/time 01/23/19 08:45
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227572	1	01/24/19 04:30	01/24/19 04:30	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 12:42	01/24/19 12:42	CAH

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

## MW-154-012119 L1063581-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Alyssa Witt				Collected date/time 01/21/19 10:45	Received date/time 01/23/19 08:45
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227572	1	01/24/19 04:52	01/24/19 04:52	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 13:02	01/24/19 13:02	CAH

## MW-159-012119 L1063581-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Alyssa Witt				Collected date/time 01/21/19 16:10	Received date/time 01/23/19 08:45
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227572	1	01/24/19 05:13	01/24/19 05:13	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 13:22	01/24/19 13:22	CAH

## MW-9-012119 L1063581-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Alyssa Witt				Collected date/time 01/21/19 15:15	Received date/time 01/23/19 08:45
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227572	1	01/24/19 05:35	01/24/19 05:35	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 13:42	01/24/19 13:42	CAH

## MW-125-012119 L1063581-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Alyssa Witt				Collected date/time 01/21/19 14:25	Received date/time 01/23/19 08:45
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227572	1	01/24/19 05:56	01/24/19 05:56	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 14:02	01/24/19 14:02	CAH

## MW-119-012119 L1063581-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Alyssa Witt				Collected date/time 01/21/19 13:05	Received date/time 01/23/19 08:45
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 14:21	01/24/19 14:21	CAH

## MW-153-012219 L1063581-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Collected by Alyssa Witt				Collected date/time 01/22/19 12:00	Received date/time 01/23/19 08:45
Wet Chemistry by Method 2320 B-2011	WG1228020	1	01/25/19 14:54	01/25/19 14:54	GB
Wet Chemistry by Method 9056A	WG1227335	1	01/23/19 20:20	01/23/19 20:20	ST
Wet Chemistry by Method 9060A	WG1227775	1	01/24/19 13:17	01/24/19 13:17	EEM
Metals (ICPMS) by Method 6020B	WG1227051	1	01/23/19 20:20	01/24/19 17:57	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227572	1	01/24/19 06:17	01/24/19 06:17	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1227529	1	01/25/19 11:47	01/25/19 11:47	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 14:41	01/24/19 14:41	CAH

# SAMPLE SUMMARY



## MW-147-012219 L1063581-08 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/22/19 14:10  
Received date/time  
01/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228020	1	01/25/19 15:03	01/25/19 15:03	GB
Wet Chemistry by Method 9056A	WG1227335	1	01/23/19 20:30	01/23/19 20:30	ST
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 16:27	01/28/19 16:27	EEM
Metals (ICPMS) by Method 6020B	WG1227051	1	01/23/19 20:20	01/24/19 18:01	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227572	1	01/24/19 06:39	01/24/19 06:39	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1227529	1	01/25/19 12:13	01/25/19 12:13	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 15:01	01/24/19 15:01	CAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228835	10	01/27/19 21:34	01/27/19 21:34	ACG

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

## MW-146-012219 L1063581-09 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/22/19 13:10  
Received date/time  
01/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228020	1	01/25/19 15:19	01/25/19 15:19	GB
Wet Chemistry by Method 9056A	WG1227335	1	01/23/19 20:41	01/23/19 20:41	ST
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 16:56	01/28/19 16:56	EEM
Metals (ICPMS) by Method 6020B	WG1227051	1	01/23/19 20:20	01/24/19 18:06	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227572	1	01/24/19 07:00	01/24/19 07:00	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1227529	1	01/25/19 12:25	01/25/19 12:25	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 15:21	01/24/19 15:21	CAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228835	10	01/27/19 21:55	01/27/19 21:55	ACG

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-126-012219 L1063581-10 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/22/19 09:00  
Received date/time  
01/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 15:41	01/24/19 15:41	CAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228835	1	01/27/19 20:54	01/27/19 20:54	ACG

## MW-108-012219 L1063581-11 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/22/19 09:50  
Received date/time  
01/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 16:01	01/24/19 16:01	CAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228835	50	01/27/19 22:15	01/27/19 22:15	ACG

## TRIP BLANK-012219 L1063581-12 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/22/19 00:00  
Received date/time  
01/23/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 12:22	01/24/19 12:22	CAH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 04:30	<a href="#">WG1227572</a>
(S) a,a,a-Trifluorotoluene(FID)	94.6			78.0-120		01/24/2019 04:30	<a href="#">WG1227572</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 12:42	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	0.274	J	0.0933	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Tetrachloroethene	3.72		0.199	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Trichloroethene	0.581		0.153	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 12:42	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 12:42	<a href="#">WG1227840</a>
(S) Toluene-d8	102			80.0-120		01/24/2019 12:42	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 12:42	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	99.1			80.0-120		01/24/2019 12:42	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	94.3			77.0-126		01/24/2019 12:42	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 04:52	<a href="#">WG1227572</a>
(S) a,a,a-Trifluorotoluene(FID)	94.4			78.0-120		01/24/2019 04:52	<a href="#">WG1227572</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 13:02	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	2.03		0.0933	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Tetrachloroethene	1.70		0.199	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Trichloroethene	0.330	U	0.153	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Vinyl chloride	3.52		0.118	0.500	1	01/24/2019 13:02	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 13:02	<a href="#">WG1227840</a>
(S) Toluene-d8	99.6			80.0-120		01/24/2019 13:02	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	103			75.0-120		01/24/2019 13:02	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.4			80.0-120		01/24/2019 13:02	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	92.3			77.0-126		01/24/2019 13:02	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 05:13	<a href="#">WG1227572</a>
(S) a,a,a-Trifluorotoluene(FID)	93.9			78.0-120		01/24/2019 05:13	<a href="#">WG1227572</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.98	J	1.05	25.0	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 13:22	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	0.651		0.0933	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Tetrachloroethene	U		0.199	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Vinyl chloride	0.666		0.118	0.500	1	01/24/2019 13:22	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 13:22	<a href="#">WG1227840</a>
(S) Toluene-d8	98.8			80.0-120		01/24/2019 13:22	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	105			75.0-120		01/24/2019 13:22	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	97.0			80.0-120		01/24/2019 13:22	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	92.6			77.0-126		01/24/2019 13:22	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 05:35	<a href="#">WG1227572</a>
(S) a,a,a-Trifluorotoluene(FID)	94.1			78.0-120		01/24/2019 05:35	<a href="#">WG1227572</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 13:42	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/21/19 15:15

L1063581

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Tetrachloroethene	U		0.199	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 13:42	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 13:42	<a href="#">WG1227840</a>
(S) Toluene-d8	98.5			80.0-120		01/24/2019 13:42	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	103			75.0-120		01/24/2019 13:42	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	99.2			80.0-120		01/24/2019 13:42	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	94.9			77.0-126		01/24/2019 13:42	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 05:56	<a href="#">WG1227572</a>
(S) a,a,a-Trifluorotoluene(FID)	94.7			78.0-120		01/24/2019 05:56	<a href="#">WG1227572</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.66	J	1.05	25.0	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 14:02	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Tetrachloroethene	U		0.199	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 14:02	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 14:02	<a href="#">WG1227840</a>
(S) Toluene-d8	100			80.0-120		01/24/2019 14:02	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 14:02	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.3			80.0-120		01/24/2019 14:02	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	94.5			77.0-126		01/24/2019 14:02	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	4.46	J	1.05	25.0	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 14:21	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Tetrachloroethene	1.24		0.199	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 14:21	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 14:21	<a href="#">WG1227840</a>
(S) Toluene-d8	100			80.0-120		01/24/2019 14:21	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	103			75.0-120		01/24/2019 14:21	<a href="#">WG1227840</a>
(S) α,α,α-Trifluorotoluene	98.1			80.0-120		01/24/2019 14:21	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	90.8			77.0-126		01/24/2019 14:21	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	156000		2710	20000	1	01/25/2019 14:54	<a href="#">WG1228020</a>

Sample Narrative:

L1063581-07 WG1228020: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	9910		51.9	1000	1	01/23/2019 20:20	<a href="#">WG1227335</a>
Nitrate	U		22.7	100	1	01/23/2019 20:20	<a href="#">WG1227335</a>
Sulfate	13200		77.4	5000	1	01/23/2019 20:20	<a href="#">WG1227335</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1920	B	102	1000	1	01/24/2019 13:17	<a href="#">WG1227775</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3010		15.0	100	1	01/24/2019 17:57	<a href="#">WG1227051</a>
Manganese	299		0.250	5.00	1	01/24/2019 17:57	<a href="#">WG1227051</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 06:17	<a href="#">WG1227572</a>
(S) a,a,a-Trifluorotoluene(FID)	94.2			78.0-120		01/24/2019 06:17	<a href="#">WG1227572</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	387		0.287	0.678	1	01/25/2019 11:47	<a href="#">WG1227529</a>
Ethane	U		0.296	1.29	1	01/25/2019 11:47	<a href="#">WG1227529</a>
Ethene	4.89		0.422	1.27	1	01/25/2019 11:47	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 14:41	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	1.41		0.0933	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Tetrachloroethene	U		0.199	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Vinyl chloride	15.9		0.118	0.500	1	01/24/2019 14:41	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 14:41	<a href="#">WG1227840</a>
<i>(S) Toluene-d8</i>	100			80.0-120		01/24/2019 14:41	<a href="#">WG1227840</a>
<i>(S) Dibromofluoromethane</i>	104			75.0-120		01/24/2019 14:41	<a href="#">WG1227840</a>
<i>(S) a,a,a-Trifluorotoluene</i>	98.7			80.0-120		01/24/2019 14:41	<a href="#">WG1227840</a>
<i>(S) 4-Bromofluorobenzene</i>	93.9			77.0-126		01/24/2019 14:41	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	302000		2710	20000	1	01/25/2019 15:03	<a href="#">WG1228020</a>

Sample Narrative:

L1063581-08 WG1228020: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	56200		51.9	1000	1	01/23/2019 20:30	<a href="#">WG1227335</a>
Nitrate	U		22.7	100	1	01/23/2019 20:30	<a href="#">WG1227335</a>
Sulfate	43200		77.4	5000	1	01/23/2019 20:30	<a href="#">WG1227335</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5200		102	1000	1	01/28/2019 16:27	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	6010		15.0	100	1	01/24/2019 18:01	<a href="#">WG1227051</a>
Manganese	646		0.250	5.00	1	01/24/2019 18:01	<a href="#">WG1227051</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	663		31.6	100	1	01/24/2019 06:39	<a href="#">WG1227572</a>
(S) a,a,a-Trifluorotoluene(FID)	95.0			78.0-120		01/24/2019 06:39	<a href="#">WG1227572</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	4210		0.287	0.678	1	01/25/2019 12:13	<a href="#">WG1227529</a>
Ethane	2.10		0.296	1.29	1	01/25/2019 12:13	<a href="#">WG1227529</a>
Ethene	100		0.422	1.27	1	01/25/2019 12:13	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.51	J	1.05	25.0	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 15:01	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 15:01	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 15:01	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 15:01	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 15:01	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 15:01	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 15:01	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 15:01	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 15:01	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 15:01	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 15:01	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 15:01	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 15:01	WG1227840
1,1-Dichloroethene	6.83		0.188	0.500	1	01/24/2019 15:01	WG1227840
cis-1,2-Dichloroethene	1230		0.933	5.00	10	01/27/2019 21:34	WG1228835
trans-1,2-Dichloroethene	2.88		0.152	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 15:01	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 15:01	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 15:01	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 15:01	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 15:01	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 15:01	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 15:01	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 15:01	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 15:01	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 15:01	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 15:01	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 15:01	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 15:01	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 15:01	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 15:01	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 15:01	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 15:01	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 15:01	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 15:01	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 15:01	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 15:01	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 15:01	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 15:01	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 15:01	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 15:01	WG1227840
Tetrachloroethene	98.2		0.199	0.500	1	01/24/2019 15:01	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 15:01	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 15:01	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 15:01	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 15:01	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 15:01	WG1227840
Trichloroethene	179		0.153	0.500	1	01/24/2019 15:01	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 15:01	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 15:01	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 15:01	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 15:01	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 15:01	WG1227840

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Vinyl chloride	738		1.18	5.00	10	01/27/2019 21:34	<a href="#">WG1228835</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
(S) Toluene-d8	106			80.0-120		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	99.6			75.0-120		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	89.5			77.0-126		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) Toluene-d8	99.3			80.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	91.6			80.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	95.0			77.0-126		01/24/2019 15:01	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	249000		2710	20000	1	01/25/2019 15:19	<a href="#">WG1228020</a>

Sample Narrative:

L1063581-09 WG1228020: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	15800		51.9	1000	1	01/23/2019 20:41	<a href="#">WG1227335</a>
Nitrate	U		22.7	100	1	01/23/2019 20:41	<a href="#">WG1227335</a>
Sulfate	32100		77.4	5000	1	01/23/2019 20:41	<a href="#">WG1227335</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3430		102	1000	1	01/28/2019 16:56	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1760		15.0	100	1	01/24/2019 18:06	<a href="#">WG1227051</a>
Manganese	560		0.250	5.00	1	01/24/2019 18:06	<a href="#">WG1227051</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	509		31.6	100	1	01/24/2019 07:00	<a href="#">WG1227572</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	94.7			78.0-120		01/24/2019 07:00	<a href="#">WG1227572</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2460		0.287	0.678	1	01/25/2019 12:25	<a href="#">WG1227529</a>
Ethane	1.84		0.296	1.29	1	01/25/2019 12:25	<a href="#">WG1227529</a>
Ethene	107		0.422	1.27	1	01/25/2019 12:25	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.98	J	1.05	25.0	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/22/19 13:10

L1063581

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Chloroethane	1.60	J	0.141	2.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 15:21	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,1-Dichloroethene	4.44		0.188	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	1080		0.933	5.00	10	01/27/2019 21:55	<a href="#">WG1228835</a>
trans-1,2-Dichloroethene	7.25		0.152	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Tetrachloroethene	2.29		0.199	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Trichloroethene	21.6		0.153	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 15:21	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 15:21	<a href="#">WG1227840</a>
Vinyl chloride	1370		1.18	5.00	10	01/27/2019 21:55	<a href="#">WG1228835</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 15:21	<a href="#">WG1227840</a>
<i>(S) Toluene-d8</i>	103			80.0-120		01/27/2019 21:55	<a href="#">WG1228835</a>
<i>(S) Dibromofluoromethane</i>	98.9			75.0-120		01/27/2019 21:55	<a href="#">WG1228835</a>
<i>(S) 4-Bromofluorobenzene</i>	88.8			77.0-126		01/27/2019 21:55	<a href="#">WG1228835</a>
<i>(S) Toluene-d8</i>	101			80.0-120		01/24/2019 15:21	<a href="#">WG1227840</a>
<i>(S) Dibromofluoromethane</i>	101			75.0-120		01/24/2019 15:21	<a href="#">WG1227840</a>
<i>(S) a,a,a-Trifluorotoluene</i>	97.2			80.0-120		01/24/2019 15:21	<a href="#">WG1227840</a>
<i>(S) 4-Bromofluorobenzene</i>	94.7			77.0-126		01/24/2019 15:21	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 15:41	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/27/2019 20:54	<a href="#">WG1228835</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Tetrachloroethene	U		0.199	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 15:41	<a href="#">WG1227840</a>
Vinyl chloride	U		0.118	0.500	1	01/27/2019 20:54	<a href="#">WG1228835</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 15:41	<a href="#">WG1227840</a>
(S) Toluene-d8	107			80.0-120		01/27/2019 20:54	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	97.4			75.0-120		01/27/2019 20:54	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	86.2			77.0-126		01/27/2019 20:54	<a href="#">WG1228835</a>
(S) Toluene-d8	101			80.0-120		01/24/2019 15:41	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	105			75.0-120		01/24/2019 15:41	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	99.0			80.0-120		01/24/2019 15:41	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		01/24/2019 15:41	<a href="#">WG1227840</a>

1  
Cp

2  
Tc

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Ss

4  
Cn

5  
Sr

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Qc

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Gl

8  
Al

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Sc



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Benzene	1.67		0.0896	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 16:01	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,1-Dichloroethene	10.1		0.188	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	1180		4.66	25.0	50	01/27/2019 22:15	<a href="#">WG1228835</a>
trans-1,2-Dichloroethene	6.03		0.152	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Tetrachloroethene	4190		9.95	25.0	50	01/27/2019 22:15	<a href="#">WG1228835</a>
Toluene	0.562		0.412	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Trichloroethene	587		7.65	25.0	50	01/27/2019 22:15	<a href="#">WG1228835</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Vinyl chloride	90.8		0.118	0.500	1	01/24/2019 16:01	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 16:01	<a href="#">WG1227840</a>
(S) Toluene-d8	106			80.0-120		01/27/2019 22:15	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	96.3			75.0-120		01/27/2019 22:15	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	85.1			77.0-126		01/27/2019 22:15	<a href="#">WG1228835</a>
(S) Toluene-d8	108			80.0-120		01/24/2019 16:01	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	102			75.0-120		01/24/2019 16:01	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	80.0			80.0-120		01/24/2019 16:01	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.7			77.0-126		01/24/2019 16:01	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 12:22	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc



Collected date/time: 01/22/19 00:00

L1063581

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Tetrachloroethene	U		0.199	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 12:22	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 12:22	<a href="#">WG1227840</a>
(S) Toluene-d8	101			80.0-120		01/24/2019 12:22	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 12:22	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	97.7			80.0-120		01/24/2019 12:22	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	94.6			77.0-126		01/24/2019 12:22	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3378729-1 01/25/19 12:27

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	2880	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1063023-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063023-01 01/25/19 12:34 • (DUP) R3378729-3 01/25/19 12:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	46200	46300	1	0.173		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

L1063515-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063515-01 01/25/19 15:26 • (DUP) R3378729-6 01/25/19 15:33

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	113000	113000	1	0.555		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace

DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3378729-4 01/25/19 13:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	98900	98.9	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3378322-1 01/23/19 13:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1063281-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063281-01 01/23/19 15:26 • (DUP) R3378322-3 01/23/19 15:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	210000	210000	1	0.286	MF	15
Nitrate	33800	33800	1	0.144	MF	15
Sulfate	583000	585000	1	0.383	MF	15

L1063281-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063281-01 01/23/19 16:10 • (DUP) R3378322-6 01/23/19 16:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Nitrate	31500	31600	5	0.285		15

L1063326-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1063326-06 01/23/19 19:14 • (DUP) R3378322-7 01/23/19 19:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	20500	20900	1	1.89		15
Nitrate	U	0.000	1	0.000		15
Sulfate	364	0.000	1	200	P1	15

Laboratory Control Sample (LCS)

(LCS) R3378322-2 01/23/19 13:29

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	37500	93.7	80.0-120	
Nitrate	8000	7630	95.4	80.0-120	



Laboratory Control Sample (LCS)

(LCS) R3378322-2 01/23/19 13:29

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Sulfate	40000	38500	96.3	80.0-120	

1 Cp

2 Tc

3 Ss

L1063281-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063281-01 01/23/19 15:26 • (MS) R3378322-4 01/23/19 15:48 • (MSD) R3378322-5 01/23/19 15:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Chloride	50000	210000	248000	243000	76.8	66.6	1	80.0-120	<u>E V</u>	<u>E V</u>	2.08	15
Nitrate	5000	33800	38300	35000	91.5	24.2	1	80.0-120	<u>E</u>	<u>E V</u>	9.18	15
Sulfate	50000	583000	642000	622000	118	77.6	1	80.0-120	<u>E</u>	<u>E V</u>	3.18	15

4 Cn

5 Sr

6 Qc

L1063326-06 Original Sample (OS) • Matrix Spike (MS)

(OS) L1063326-06 01/23/19 19:14 • (MS) R3378322-8 01/23/19 19:36

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>
Chloride	50000	20500	66500	92.0	1	80.0-120	
Nitrate	5000	U	4270	85.3	1	80.0-120	
Sulfate	50000	364	45100	89.5	1	80.0-120	

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3378475-1 01/24/19 11:35

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	258	↓	102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1063259-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1063259-04 01/24/19 12:46 • (DUP) R3378475-3 01/24/19 13:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	7860	7580	2	3.56		20

Laboratory Control Sample (LCS)

(LCS) R3378475-2 01/24/19 12:05

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	78200	104	85.0-115	

L1063581-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063581-07 01/24/19 13:17 • (MS) R3378475-4 01/24/19 13:33 • (MSD) R3378475-5 01/24/19 13:49

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	1920	52600	52900	101	102	1	80.0-120			0.626	20



Method Blank (MB)

(MB) R3379231-1 01/28/19 12:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	222	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1063581-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1063581-08 01/28/19 16:27 • (DUP) R3379231-3 01/28/19 16:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	5200	5260	1	1.13		20

L1064289-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1064289-02 01/28/19 20:02 • (DUP) R3379231-6 01/28/19 20:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	4820	4810	1	0.332		20

Laboratory Control Sample (LCS)

(LCS) R3379231-2 01/28/19 13:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	79200	106	85.0-115	

L1063697-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063697-09 01/28/19 17:50 • (MS) R3379231-4 01/28/19 18:08 • (MSD) R3379231-5 01/28/19 18:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	555	56500	56900	112	113	1	80.0-120			0.653	20

L1064289-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064289-03 01/28/19 20:30 • (MS) R3379231-7 01/28/19 20:48 • (MSD) R3379231-8 01/28/19 21:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	4890	59500	59600	109	110	1	80.0-120			0.235	20





Method Blank (MB)

(MB) R3378464-1 01/24/19 14:52

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	17.4	U	15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378464-2 01/24/19 14:56 • (LCSD) R3378464-3 01/24/19 15:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	4930	4660	98.6	93.2	80.0-120			5.57	20
Manganese	50.0	48.8	47.4	97.5	94.8	80.0-120			2.79	20

5 Sr

6 Qc

L1063106-17 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063106-17 01/24/19 15:06 • (MS) R3378464-5 01/24/19 15:15 • (MSD) R3378464-6 01/24/19 15:19

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	50800	54100	54300	66.3	70.2	1	75.0-125	V	V	0.359	20
Manganese	50.0	500	535	535	71.0	70.0	1	75.0-125	V	V	0.0989	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3379464-3 01/24/19 00:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	94.4			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379464-1 01/23/19 22:31 • (LCSD) R3379464-2 01/23/19 23:17

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5330	4800	96.9	87.3	70.0-124			10.5	20
(S) a,a,a-Trifluorotoluene(FID)				111	109	78.0-120				

L1063581-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063581-09 01/24/19 07:00 • (MS) R3379464-4 01/24/19 07:21 • (MSD) R3379464-5 01/24/19 07:43

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	509	2220	2100	31.1	29.0	1	10.0-155			5.46	21
(S) a,a,a-Trifluorotoluene(FID)					94.5	94.8		78.0-120				



Method Blank (MB)

(MB) R3378764-1 01/25/19 11:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1063310-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063310-01 01/25/19 11:40 • (DUP) R3378764-2 01/25/19 13:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	66.9	65.5	1	2.06		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1063312-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063312-01 01/25/19 11:43 • (DUP) R3378764-3 01/25/19 13:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	78.5	76.4	1	2.79		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1063700-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063700-01 01/25/19 14:19 • (DUP) R3378764-4 01/25/19 14:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378764-5 01/25/19 14:51 • (LCSD) R3378764-6 01/25/19 15:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	71.3	70.4	105	104	85.0-115			1.24	20
Ethane	129	112	113	86.9	87.5	85.0-115			0.741	20
Ethene	127	111	112	87.1	88.2	85.0-115			1.27	20

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Method Blank (MB)

(MB) R3378860-3 01/24/19 09:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3378860-3 01/24/19 09:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	0.260	U	0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	103			80.0-120
(S) Dibromofluoromethane	102			75.0-120
(S) a,a,a-Trifluorotoluene	98.9			80.0-120
(S) 4-Bromofluorobenzene	93.1			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378860-1 01/24/19 08:56 • (LCSD) R3378860-2 01/24/19 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Acetone	125	193	168	155	134	19.0-160			14.0	27
Acrylonitrile	125	155	144	124	115	55.0-149			7.57	20
Benzene	25.0	26.2	24.8	105	99.1	70.0-123			5.66	20
Bromobenzene	25.0	24.9	23.9	99.7	95.5	73.0-121			4.32	20
Bromodichloromethane	25.0	27.9	26.1	112	104	75.0-120			6.74	20
Bromochloromethane	25.0	27.1	25.4	109	102	76.0-122			6.60	20
Bromoform	25.0	24.9	23.7	99.5	94.8	68.0-132			4.87	20
Bromomethane	25.0	28.2	26.4	113	105	10.0-160			6.67	25
n-Butylbenzene	25.0	26.8	25.2	107	101	73.0-125			6.14	20
sec-Butylbenzene	25.0	26.8	25.5	107	102	75.0-125			5.21	20
tert-Butylbenzene	25.0	26.1	25.0	104	100	76.0-124			4.01	20
Carbon disulfide	25.0	26.5	25.6	106	102	61.0-128			3.53	20
Carbon tetrachloride	25.0	24.4	23.8	97.6	95.2	68.0-126			2.48	20
Chlorobenzene	25.0	25.2	24.5	101	98.0	80.0-121			2.74	20
Chlorodibromomethane	25.0	26.1	25.3	104	101	77.0-125			3.06	20
Chloroethane	25.0	30.5	28.3	122	113	47.0-150			7.58	20
Chloroform	25.0	27.4	26.1	110	105	73.0-120			4.83	20
Chloromethane	25.0	27.8	27.1	111	108	41.0-142			2.71	20
2-Chlorotoluene	25.0	25.5	24.4	102	97.5	76.0-123			4.34	20
4-Chlorotoluene	25.0	25.8	24.8	103	99.2	75.0-122			3.92	20
1,2-Dibromo-3-Chloropropane	25.0	25.2	24.3	101	97.3	58.0-134			3.35	20
1,2-Dibromoethane	25.0	26.6	25.7	106	103	80.0-122			3.38	20
Dibromomethane	25.0	28.7	27.6	115	111	80.0-120			3.94	20
1,2-Dichlorobenzene	25.0	26.3	24.9	105	99.5	79.0-121			5.75	20
1,3-Dichlorobenzene	25.0	25.6	24.4	102	97.5	79.0-120			5.00	20
1,4-Dichlorobenzene	25.0	25.5	24.7	102	98.8	79.0-120			3.19	20
Dichlorodifluoromethane	25.0	25.4	24.8	101	99.2	51.0-149			2.26	20
1,1-Dichloroethane	25.0	27.7	26.3	111	105	70.0-126			5.23	20
1,2-Dichloroethane	25.0	28.6	27.1	115	108	70.0-128			5.57	20
1,1-Dichloroethene	25.0	25.6	25.3	102	101	71.0-124			1.17	20
cis-1,2-Dichloroethene	25.0	27.5	26.5	110	106	73.0-120			3.74	20
trans-1,2-Dichloroethene	25.0	26.9	26.1	108	104	73.0-120			3.00	20
1,2-Dichloropropane	25.0	28.1	26.7	112	107	77.0-125			4.96	20
1,1-Dichloropropene	25.0	27.8	26.3	111	105	74.0-126			5.36	20
1,3-Dichloropropane	25.0	26.6	25.5	107	102	80.0-120			4.55	20
cis-1,3-Dichloropropene	25.0	26.0	25.0	104	100	80.0-123			4.04	20
trans-1,3-Dichloropropene	25.0	26.8	25.5	107	102	78.0-124			4.72	20
trans-1,4-Dichloro-2-butene	25.0	21.7	20.7	86.9	82.7	33.0-144			4.97	20
2,2-Dichloropropane	25.0	24.0	22.8	96.2	91.3	58.0-130			5.21	20
Di-isopropyl ether	25.0	28.8	27.2	115	109	58.0-138			5.73	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378860-1 01/24/19 08:56 • (LCSD) R3378860-2 01/24/19 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	25.8	24.4	103	97.8	79.0-123			5.38	20
Hexachloro-1,3-butadiene	25.0	24.1	22.9	96.4	91.7	54.0-138			4.97	20
2-Hexanone	125	144	138	115	110	67.0-149			4.22	20
n-Hexane	25.0	25.5	24.3	102	97.0	57.0-133			4.91	20
Iodomethane	125	123	120	98.1	96.0	33.0-147			2.11	26
Isopropylbenzene	25.0	25.1	24.1	101	96.6	76.0-127			3.99	20
p-Isopropyltoluene	25.0	26.4	25.1	106	101	76.0-125			4.95	20
2-Butanone (MEK)	125	149	138	119	110	44.0-160			7.94	20
Methylene Chloride	25.0	26.4	25.7	106	103	67.0-120			2.62	20
4-Methyl-2-pentanone (MIBK)	125	143	135	114	108	68.0-142			5.88	20
Methyl tert-butyl ether	25.0	27.6	26.3	111	105	68.0-125			4.92	20
Naphthalene	25.0	23.6	23.4	94.3	93.5	54.0-135			0.895	20
n-Propylbenzene	25.0	25.1	24.1	100	96.2	77.0-124			4.12	20
Styrene	25.0	25.8	25.2	103	101	73.0-130			2.29	20
1,1,1,2-Tetrachloroethane	25.0	25.0	24.1	100	96.6	75.0-125			3.49	20
1,1,2,2-Tetrachloroethane	25.0	24.4	23.7	97.6	94.7	65.0-130			3.07	20
1,1,2-Trichlorotrifluoroethane	25.0	24.9	24.1	99.7	96.4	69.0-132			3.42	20
Tetrachloroethene	25.0	23.6	23.0	94.4	92.2	72.0-132			2.39	20
Toluene	25.0	24.9	24.0	99.7	96.2	79.0-120			3.64	20
1,2,3-Trichlorobenzene	25.0	23.3	22.5	93.2	89.9	50.0-138			3.69	20
1,2,4-Trichlorobenzene	25.0	24.5	23.9	98.0	95.5	57.0-137			2.58	20
1,1,1-Trichloroethane	25.0	27.5	26.2	110	105	73.0-124			4.63	20
1,1,2-Trichloroethane	25.0	26.6	25.7	106	103	80.0-120			3.33	20
Trichloroethene	25.0	26.5	25.1	106	100	78.0-124			5.54	20
Trichlorofluoromethane	25.0	25.8	24.7	103	98.6	59.0-147			4.58	20
1,2,3-Trichloropropane	25.0	26.0	25.3	104	101	73.0-130			2.65	20
1,2,4-Trimethylbenzene	25.0	26.1	24.7	104	98.9	76.0-121			5.51	20
1,2,3-Trimethylbenzene	25.0	25.6	24.4	102	97.7	77.0-120			4.62	20
1,3,5-Trimethylbenzene	25.0	25.4	24.6	101	98.4	76.0-122			3.07	20
Vinyl acetate	125	86.7	93.7	69.3	74.9	11.0-160			7.76	20
Vinyl chloride	25.0	28.0	26.5	112	106	67.0-131			5.34	20
Xylenes, Total	75.0	77.4	74.2	103	98.9	79.0-123			4.22	20
(S) Toluene-d8				97.8	98.7	80.0-120				
(S) Dibromofluoromethane				102	102	75.0-120				
(S) a,a,a-Trifluorotoluene				96.7	96.7	80.0-120				
(S) 4-Bromofluorobenzene				93.1	95.3	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3379557-4 01/27/19 12:37

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	94.1			75.0-120
(S) 4-Bromofluorobenzene	86.4			77.0-126

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379557-1 01/27/19 11:18 • (LCSD) R3379557-2 01/27/19 11:38

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	25.0	25.8	25.7	103	103	73.0-120			0.361	20
Tetrachloroethene	25.0	28.1	29.8	112	119	72.0-132			5.82	20
Trichloroethene	25.0	27.6	27.8	110	111	78.0-124			0.679	20
Vinyl chloride	25.0	24.5	24.4	97.9	97.5	67.0-131			0.438	20
(S) Toluene-d8				101	106	80.0-120				
(S) Dibromofluoromethane				97.4	98.9	75.0-120				
(S) 4-Bromofluorobenzene				82.3	86.2	77.0-126				

6 Qc

7 Gl

8 Al

9 Sc



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

## Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

## Qualifier Description

B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
P1	RPD value not applicable for sample concentrations less than 5 times the reporting limit.
V	The sample concentration is too high to evaluate accurate spike recoveries.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

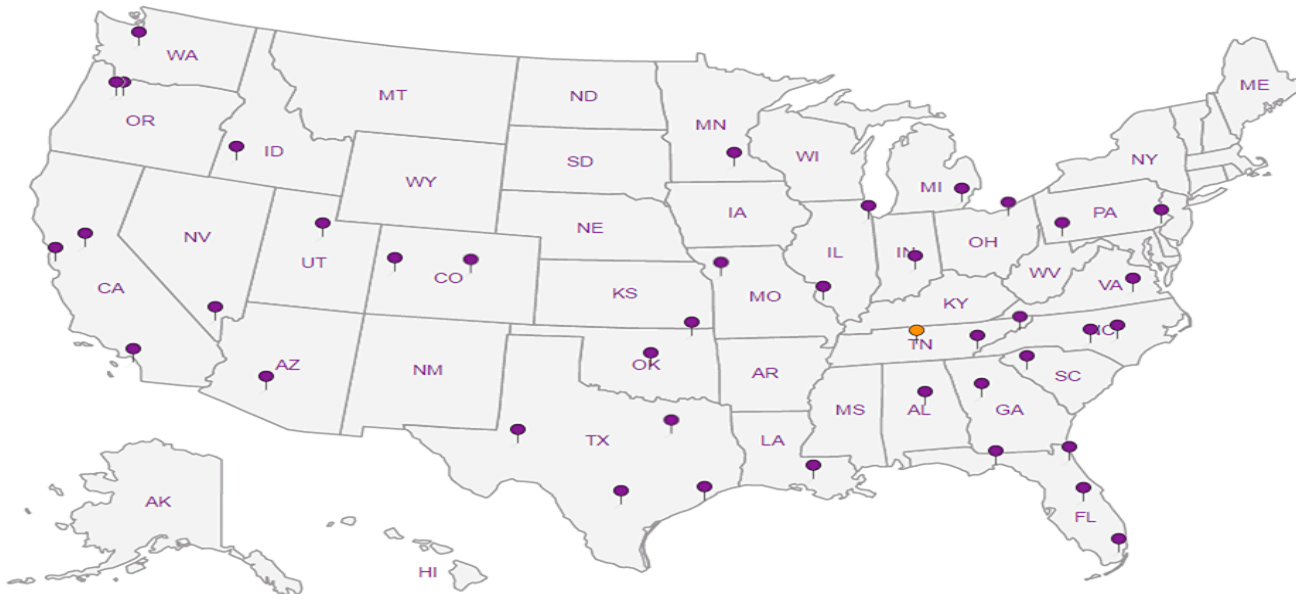
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com;

Project Description: **American Linen**

City/State Collected:

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.601

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
Alyssa Witt

Site/Facility ID #  
American Linen

P.O. #

Collected by (signature):  
*Alyssa Witt*

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed

Immediately  
Packed on Ice N  Y

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_

Pace Analytical  
National Center for Testing & Innovation

12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859

L# L1063581  
D212

Acctnum: PESENVSWA

Template: T143845

Prelogin: P685358

TSR: 110 - Brian Ford

PB: 12/13/18 MB

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,SO4,Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (8260LLC) 40mlAmb-HCl						
MW-155-012119	Grab	GW	25'	1/21/19	1215	6				X			X						
MW-154-012119		GW	30'	1/21/19	1045	6				X			X						
MW-159-012119		GW	25'	1/21/19	1610	6				X			X						
MW-9-012119		GW	15'	1/21/19	1515	6				X			X						
MW-125-012119		GW	23'	1/21/19	1425	6				X			X						
MW-119-012119		GW	40'	1/21/19	1305	3							X						
MW-153-012219		GW	125'	1/22/19	1200	12	X	X	X	X	X	X	X						
MW-147-012219		GW	75'	1/22/19	1410	12	X	X	X	X	X	X	X						
MW-146-012219		GW	44'	1/22/19	1310	12	X	X	X	X	X	X	X						
MW-126-012219		GW	90'	1/22/19	0900	3							X						

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - Waste Water  
DW - Drinking Water  
OT - Other

Remarks:

Samples returned via:  
UPS  FedEx  Courier

Tracking # 4757 5076 9520

RAD SCREEN: <0.5mR/h  
Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist



COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive Intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature) <i>Alyssa Witt</i>	Date: 1/22/19	Time: 1700	Received by: (Signature)	Trip Blank Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> HCL/MeOH TBR	Temp: 41.8°C 1.450	Bottles Received: 75	If preservation required by Login; Date/Time
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp:	Bottles Received:		
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>CM</i>	Date: 1/23/19	Time: 8:45	Hold:	Condition: NCF 1/OK

**PES Environmental, Inc.- WA**  
 1215 Fourth Ave., Suite 1350  
 Seattle, WA 98161

Billing Information:  
 Attn: Accounts Payable  
 1215 Fourth Ave., Ste. 1350  
 Seattle, WA 98161

Pres Chk  
 Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_  
  
 Pace Analytical  
 National Center for Testing & Innovation  
 12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5898  
 Phone: 800-767-5859  
 Fax: 615-758-5850  


Report to:  
 Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
 bhaldeman@pesenv.com;

Project  
 Description: American Linen

City/State Collected:

Phone: 206-529-3980  
 Fax: 206-529-3985

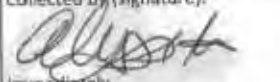
Client Project #  
 1413.001.05.601

Lab Project #  
 PESENVSWA-ALP

Collected by (print):  
 Alyssa Witt

Site/Facility ID #  
 American Linen

P.O. #

Collected by (signature):  
  
 Immediately  
 Packed on Ice N \_\_\_ Y \_\_\_

Rush? (Lab MUST Be Notified)  
 \_\_\_ Same Day \_\_\_ Five Day  
 \_\_\_ Next Day \_\_\_ 5 Day (Rad Only)  
 \_\_\_ Two Day \_\_\_ 10 Day (Rad Only)  
 \_\_\_ Three Day

Quote #  
 Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW108-012219	Grab	GW	45	1/22/19	0950	3
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				

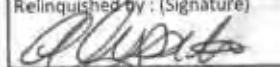
* NO3,S04,Cl*	125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (8260LLC) 40mlAmb-HCl
							X

L #  
 Table #  
 Acctnum: PESENVSWA  
 Template: T143845  
 Prelogin: P685358  
 TSR: 110 - Brian Ford  
 PB: 12/13/19 MWB  
 Shipped Via: FedEX Ground


\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:  
 RAD SCREEN: <0.5 mPCU Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_  
 Samples returned via:  
 \_\_\_ UPS \_\_\_ FedEx \_\_\_ Courier \_\_\_  
 Tracking # 4757 5076 9520

Sample Receipt Checklist  
 CQC Seal Present/Intact:  Y  
 CQC Signed/Accurate:  Y  
 Bottles arrive intact:  Y  
 Correct bottles used:  Y  
 Sufficient volume sent:  Y  
 If Applicable  
 VOA Test Headspace:  Y  
 Preservation Correct/Checked:  Y

Relinquished by: (Signature)  
  
 Relinquished by: (Signature)  
 Relinquished by: (Signature)

Date: 1/23/19  
 Time: 9:00  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received by: (Signature)  
 Received by: (Signature)  
 Received for lab by: (Signature)  


Trip Blank Received: Yes \_\_\_ No  Y  
 (HCL) MeOH TBR  
 Temp: 18.5 °C  
 1.420  
 Bottles Received: 75  
 Date: 1/23/19  
 Time: 8:45

If preservation required by Login: Date/Time  
 Hold:  
 Condition:  
 NCF  OK

## Brian Ford

---

**From:** Alyssa Witt <AWitt@pesenv.com>  
**Sent:** Tuesday, January 22, 2019 8:18 PM  
**To:** Brian Ford  
**Cc:** Karsten Springstead; Brian O'Neal; Kim Vik  
**Attachments:** new doc 2019-01-22 18.16.26\_20190122181649.pdf

**Categories:** update login/report

Hello,

I shipped samples this afternoon but forgot to include the trip blank on the CoC. See attached for updated carbon copy.

Alyssa

Get [Outlook for iOS](#)



PES Environmental, Inc. - WA

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
Brian O'Neal/Bill Haldeaman  
Email To: [bonreal@pesenv.com](mailto:bonreal@pesenv.com),  
[bhaldeaman@pesenv.com](mailto:bhaldeaman@pesenv.com)

Project Description: American Linen  
Client Project #: 1413.001.05.601  
Lab Project #: PESENVSWA-ALP

Phone: 206-529-3980  
Fax: 206-529-3985  
Collected by (print): *Alissa Wolfe*  
Site/Activity ID #: *APM00000000000000000000*

Collected by (signature): *Alissa Wolfe*  
Rush? (Lab MUST be notified)  
Same Day  Next Day  Five Day   
Immediate  Ten Day  10 Day (Fed only)   
Packed on ice N  Y

Quote #  
Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Chrs
MW108-012219	Grab	GW	45	12/19	0950	3
Trp Blank-012219	-	GW	-	-	-	1
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				
		GW				

Remarks:  
Samples returned via UPS FedEx Courier

Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Biossay  
WW - Wastewater  
DW - Drinking Water  
OT - Other  
Relinquished by: (Signature) *Alissa Wolfe* Date: *12/19* Time: *7:00*  
Relinquished by: (Signature) Date: Time:  
Reinstated by: (Signature) Date: Time:

Analysis / Container / Preservative

*NO3,SO4,Cl* 125mlHDPE-NoPres
Alkalinity 125mlHDPE-NoPres
EEM (RSK175LL) 40mlAmb-HCl
NWTPHGX 40mlAmb HCl
TOC 250mlAmb-HCl
Total Fe Mn 6020 250mlHDPE-HNO3
VOCs (8260LLC) 40mlAmb-HCl

Tracking #  
Received by (Signature):  
Received by (Signature):  
Received for lab by (Signature):  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_  
Trip Blank Received: Yes/No  
HCL/Mesh

Chain of Custody Page 1 of 1

**Pace Analytical**  
10001 Ingraham Rd.  
Burien WA, 98148  
Phone: 822-787-0800  
Fax: 822-787-0809  
Fax: 815-714-3855

Acctnum: PESENVSWA  
Template: T143845  
Printed: P685358  
TSR: 110 - Brian Ford  
Shipper: **FedEx Ground**

QC dual (Preserv) 20 act:  JF  JH  
QC 20 (Preserv) 20 act:  JF  JH  
Bottle pre-sterilized:    
Container pre-sterilized:    
Sufficient vol. for analysis:    
TE Application:    
VOC 20 (Preserv) 20 act:    
Preservative correct/Overhead:    
If preservation required by regin: Date/Time: \_\_\_\_\_

QC:  HCL /  CW

January 31, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1063697  
Samples Received: 01/24/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Jason Romer  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.





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# SAMPLE SUMMARY



## MW109-012319 L1063697-01 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/23/19 14:20  
Received date/time  
01/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 16:20	01/24/19 16:20	CAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228835	5	01/27/19 22:35	01/27/19 22:35	ACG

1  
Cp

2  
Tc

3  
Ss

## MW-148-012319 L1063697-02 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/23/19 12:25  
Received date/time  
01/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1229337	1	01/29/19 13:42	01/29/19 13:42	GB
Wet Chemistry by Method 9056A	WG1227809	1	01/24/19 17:29	01/24/19 17:29	ELN
Wet Chemistry by Method 9056A	WG1227809	5	01/25/19 08:39	01/25/19 08:39	ELN
Wet Chemistry by Method 9060A	WG1229248	2	01/28/19 17:11	01/28/19 17:11	EEM
Metals (ICPMS) by Method 6020B	WG1228207	1	01/25/19 10:24	01/28/19 01:13	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227701	1	01/24/19 20:03	01/24/19 20:03	ACE
Volatile Organic Compounds (GC) by Method RSK175	WG1227529	1	01/25/19 14:13	01/25/19 14:13	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 16:40	01/24/19 16:40	CAH
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228835	1	01/27/19 21:14	01/27/19 21:14	ACG

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

## MW-105-012319 L1063697-03 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/23/19 10:30  
Received date/time  
01/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1229337	1	01/29/19 13:51	01/29/19 13:51	GB
Wet Chemistry by Method 9056A	WG1227809	1	01/24/19 17:45	01/24/19 17:45	ELN
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 17:24	01/28/19 17:24	EEM
Metals (ICPMS) by Method 6020B	WG1228207	1	01/25/19 10:24	01/28/19 01:18	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227701	1	01/24/19 20:25	01/24/19 20:25	ACE
Volatile Organic Compounds (GC) by Method RSK175	WG1227529	1	01/25/19 14:02	01/25/19 14:02	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 17:00	01/24/19 17:00	CAH

## BB-8-012319 L1063697-04 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/23/19 11:00  
Received date/time  
01/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1229337	1	01/29/19 13:58	01/29/19 13:58	GB
Wet Chemistry by Method 9056A	WG1227809	1	01/24/19 18:01	01/24/19 18:01	ELN
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 17:37	01/28/19 17:37	EEM
Metals (ICPMS) by Method 6020B	WG1228207	1	01/25/19 10:24	01/28/19 00:55	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227701	1	01/24/19 20:47	01/24/19 20:47	ACE
Volatile Organic Compounds (GC) by Method RSK175	WG1227529	1	01/25/19 14:07	01/25/19 14:07	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 17:20	01/24/19 17:20	CAH

## MW111-012319 L1063697-05 GW

Collected by  
Alyssa Witt  
Collected date/time  
01/23/19 14:00  
Received date/time  
01/24/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 17:40	01/24/19 17:40	CAH

# SAMPLE SUMMARY



## MW103-012319 L1063697-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Collected by				Collected date/time	Received date/time	
				Alyssa Witt	01/23/19 15:00	01/24/19 08:45
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 18:00	01/24/19 18:00	CAH	

1 Cp

2 Tc

3 Ss

## MW110-012319 L1063697-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Collected by				Collected date/time	Received date/time	
				Alyssa Witt	01/23/19 15:20	01/24/19 08:45
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1227840	1	01/24/19 18:19	01/24/19 18:19	CAH	
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228835	20	01/27/19 22:55	01/27/19 22:55	ACG	

4 Cn

5 Sr

6 Qc

## MW-905-012319 L1063697-08 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Collected by				Collected date/time	Received date/time	
				Alyssa Witt	01/23/19 16:00	01/24/19 08:45
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228162	1	01/24/19 21:58	01/24/19 21:58	JCP	
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229996	200	01/30/19 03:14	01/30/19 03:14	JHH	

7 Gl

8 Al

9 Sc

## EQ-012319 L1063697-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Collected by				Collected date/time	Received date/time	
				Alyssa Witt	01/23/19 15:30	01/24/19 08:45
Wet Chemistry by Method 2320 B-2011	WG1229337	1	01/29/19 13:19	01/29/19 13:19	GB	
Wet Chemistry by Method 9056A	WG1227809	1	01/24/19 18:49	01/24/19 18:49	ELN	
Wet Chemistry by Method 9056A	WG1227809	1	01/25/19 08:55	01/25/19 08:55	ELN	
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 17:50	01/28/19 17:50	EEM	
Metals (ICPMS) by Method 6020B	WG1228207	1	01/25/19 10:24	01/28/19 01:23	JPD	
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1227701	1	01/24/19 21:09	01/24/19 21:09	ACE	
Volatile Organic Compounds (GC) by Method RSK175	WG1227529	1	01/25/19 14:10	01/25/19 14:10	MEL	
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228162	1	01/24/19 22:17	01/24/19 22:17	JCP	
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229996	1	01/30/19 03:34	01/30/19 03:34	JHH	

## TRIP BLANK-012319 L1063697-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	
Collected by				Collected date/time	Received date/time	
				Alyssa Witt	01/23/19 00:00	01/24/19 08:45
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228162	1	01/24/19 20:19	01/24/19 20:19	JCP	
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229996	1	01/30/19 03:53	01/30/19 03:53	JHH	



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.54	J	1.05	25.0	1	01/24/2019 16:20	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 16:20	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 16:20	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 16:20	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 16:20	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 16:20	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 16:20	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 16:20	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 16:20	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 16:20	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 16:20	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 16:20	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 16:20	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 16:20	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 16:20	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 16:20	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 16:20	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 16:20	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 16:20	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 16:20	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 16:20	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 16:20	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 16:20	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 16:20	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 16:20	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 16:20	WG1227840
1,1-Dichloroethene	0.739		0.188	0.500	1	01/24/2019 16:20	WG1227840
cis-1,2-Dichloroethene	403		0.466	2.50	5	01/27/2019 22:35	WG1228835
trans-1,2-Dichloroethene	2.08		0.152	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 16:20	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 16:20	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 16:20	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 16:20	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 16:20	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 16:20	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 16:20	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 16:20	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 16:20	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 16:20	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 16:20	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 16:20	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 16:20	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 16:20	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 16:20	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 16:20	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 16:20	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 16:20	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 16:20	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 16:20	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 16:20	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 16:20	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 16:20	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 16:20	WG1227840

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Tetrachloroethene	U		0.995	2.50	5	01/27/2019 22:35	<a href="#">WG1228835</a>
Toluene	U		0.412	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Trichloroethene	43.8		0.765	2.50	5	01/27/2019 22:35	<a href="#">WG1228835</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Vinyl chloride	36.8		0.118	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 16:20	<a href="#">WG1227840</a>
(S) Toluene-d8	105			80.0-120		01/27/2019 22:35	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	97.4			75.0-120		01/27/2019 22:35	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	85.0			77.0-126		01/27/2019 22:35	<a href="#">WG1228835</a>
(S) Toluene-d8	101			80.0-120		01/24/2019 16:20	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	101			75.0-120		01/24/2019 16:20	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	96.4			80.0-120		01/24/2019 16:20	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.4			77.0-126		01/24/2019 16:20	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	151000		2710	20000	1	01/29/2019 13:42	<a href="#">WG1229337</a>

Sample Narrative:

L1063697-02 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	17700		51.9	1000	1	01/24/2019 17:29	<a href="#">WG1227809</a>
Nitrate	U		22.7	100	1	01/24/2019 17:29	<a href="#">WG1227809</a>
Sulfate	154000		387	25000	5	01/25/2019 08:39	<a href="#">WG1227809</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4040	<u>B</u>	204	2000	2	01/28/2019 17:11	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	10100		15.0	100	1	01/28/2019 01:13	<a href="#">WG1228207</a>
Manganese	594		0.250	5.00	1	01/28/2019 01:13	<a href="#">WG1228207</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 20:03	<a href="#">WG1227701</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		01/24/2019 20:03	<a href="#">WG1227701</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	1390		0.287	0.678	1	01/25/2019 14:13	<a href="#">WG1227529</a>
Ethane	U		0.296	1.29	1	01/25/2019 14:13	<a href="#">WG1227529</a>
Ethene	2.84		0.422	1.27	1	01/25/2019 14:13	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.90	<u>J</u>	1.05	25.0	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/23/19 12:25

L1063697

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 16:40	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/27/2019 21:14	<a href="#">WG1228835</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Tetrachloroethene	1.24		0.199	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Trichloroethene	0.347	U	0.153	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
(S) Toluene-d8	108			80.0-120		01/27/2019 21:14	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	94.6			75.0-120		01/27/2019 21:14	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	87.5			77.0-126		01/27/2019 21:14	<a href="#">WG1228835</a>
(S) Toluene-d8	100			80.0-120		01/24/2019 16:40	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 16:40	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.4			80.0-120		01/24/2019 16:40	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.4			77.0-126		01/24/2019 16:40	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	210000		2710	20000	1	01/29/2019 13:51	<a href="#">WG1229337</a>

Sample Narrative:

L1063697-03 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	28100		51.9	1000	1	01/24/2019 17:45	<a href="#">WG1227809</a>
Nitrate	U		22.7	100	1	01/24/2019 17:45	<a href="#">WG1227809</a>
Sulfate	11000		77.4	5000	1	01/24/2019 17:45	<a href="#">WG1227809</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	1960	<u>B</u>	102	1000	1	01/28/2019 17:24	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	13800		15.0	100	1	01/28/2019 01:18	<a href="#">WG1228207</a>
Manganese	809		0.250	5.00	1	01/28/2019 01:18	<a href="#">WG1228207</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 20:25	<a href="#">WG1227701</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		01/24/2019 20:25	<a href="#">WG1227701</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	286		0.287	0.678	1	01/25/2019 14:02	<a href="#">WG1227529</a>
Ethane	U		0.296	1.29	1	01/25/2019 14:02	<a href="#">WG1227529</a>
Ethene	4.19		0.422	1.27	1	01/25/2019 14:02	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.73	<u>J</u>	1.05	25.0	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 17:00	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	1.51		0.0933	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Tetrachloroethene	0.790		0.199	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Trichloroethene	0.317	U	0.153	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Vinyl chloride	0.392	↓	0.118	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
(S) Toluene-d8	100			80.0-120		01/24/2019 17:00	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	101			75.0-120		01/24/2019 17:00	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.1			80.0-120		01/24/2019 17:00	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.0			77.0-126		01/24/2019 17:00	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	280000		2710	20000	1	01/29/2019 13:58	<a href="#">WG1229337</a>

Sample Narrative:

L1063697-04 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	12400		51.9	1000	1	01/24/2019 18:01	<a href="#">WG1227809</a>
Nitrate	891		22.7	100	1	01/24/2019 18:01	<a href="#">WG1227809</a>
Sulfate	93300		77.4	5000	1	01/24/2019 18:01	<a href="#">WG1227809</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3430		102	1000	1	01/28/2019 17:37	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	95.4	J	15.0	100	1	01/28/2019 00:55	<a href="#">WG1228207</a>
Manganese	82.0	O1	0.250	5.00	1	01/28/2019 00:55	<a href="#">WG1228207</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	99.6	J	31.6	100	1	01/24/2019 20:47	<a href="#">WG1227701</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/24/2019 20:47	<a href="#">WG1227701</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	111		0.287	0.678	1	01/25/2019 14:07	<a href="#">WG1227529</a>
Ethane	0.735	J	0.296	1.29	1	01/25/2019 14:07	<a href="#">WG1227529</a>
Ethene	U		0.422	1.27	1	01/25/2019 14:07	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/23/19 11:00

L1063697

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 17:20	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1-Dichloroethene	0.403	U	0.188	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	81.5	U	0.0933	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	0.402	U	0.152	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Tetrachloroethene	133		0.199	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Trichloroethene	43.1		0.153	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Vinyl chloride	0.618		0.118	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
<i>(S) Toluene-d8</i>	102			80.0-120		01/24/2019 17:20	<a href="#">WG1227840</a>
<i>(S) Dibromofluoromethane</i>	104			75.0-120		01/24/2019 17:20	<a href="#">WG1227840</a>
<i>(S) a,a,a-Trifluorotoluene</i>	97.3			80.0-120		01/24/2019 17:20	<a href="#">WG1227840</a>
<i>(S) 4-Bromofluorobenzene</i>	93.1			77.0-126		01/24/2019 17:20	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 17:40	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	1.70		0.0933	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Tetrachloroethene	0.492	J	0.199	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Trichloroethene	0.176	J	0.153	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Vinyl chloride	37.6		0.118	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
(S) Toluene-d8	102			80.0-120		01/24/2019 17:40	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	105			75.0-120		01/24/2019 17:40	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.6			80.0-120		01/24/2019 17:40	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	94.1			77.0-126		01/24/2019 17:40	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	23.0	J	1.05	25.0	1	01/24/2019 18:00	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 18:00	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 18:00	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 18:00	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 18:00	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 18:00	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 18:00	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 18:00	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 18:00	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 18:00	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 18:00	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 18:00	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 18:00	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 18:00	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 18:00	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 18:00	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 18:00	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 18:00	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 18:00	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 18:00	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 18:00	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 18:00	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 18:00	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 18:00	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 18:00	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 18:00	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 18:00	WG1227840
cis-1,2-Dichloroethene	11.4		0.0933	0.500	1	01/24/2019 18:00	WG1227840
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 18:00	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 18:00	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 18:00	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 18:00	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 18:00	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 18:00	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 18:00	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 18:00	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 18:00	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 18:00	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 18:00	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 18:00	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 18:00	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 18:00	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 18:00	WG1227840
2-Butanone (MEK)	8.78		1.28	5.00	1	01/24/2019 18:00	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 18:00	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 18:00	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 18:00	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 18:00	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 18:00	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 18:00	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 18:00	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 18:00	WG1227840

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Tetrachloroethene	0.365	J	0.199	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Toluene	1.35		0.412	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Trichloroethene	1.48		0.153	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Vinyl chloride	6.68		0.118	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 18:00	<a href="#">WG1227840</a>
(S) Toluene-d8	98.6			80.0-120		01/24/2019 18:00	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 18:00	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.3			80.0-120		01/24/2019 18:00	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	92.7			77.0-126		01/24/2019 18:00	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 18:19	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1-Dichloroethene	6.44		0.188	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	673		1.87	10.0	20	01/27/2019 22:55	<a href="#">WG1228835</a>
trans-1,2-Dichloroethene	5.83		0.152	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Tetrachloroethene	1260		3.98	10.0	20	01/27/2019 22:55	<a href="#">WG1228835</a>
Toluene	U		0.412	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Trichloroethene	490		3.06	10.0	20	01/27/2019 22:55	<a href="#">WG1228835</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Vinyl chloride	1.39		0.118	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
(S) Toluene-d8	107			80.0-120		01/27/2019 22:55	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	98.8			75.0-120		01/27/2019 22:55	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	85.0			77.0-126		01/27/2019 22:55	<a href="#">WG1228835</a>
(S) Toluene-d8	108			80.0-120		01/24/2019 18:19	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	103			75.0-120		01/24/2019 18:19	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	81.7			80.0-120		01/24/2019 18:19	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		01/24/2019 18:19	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	1.05	25.0	1	01/24/2019 21:58	WG1228162
Acrylonitrile	U		0.873	5.00	1	01/24/2019 21:58	WG1228162
Benzene	U		0.0896	0.500	1	01/24/2019 21:58	WG1228162
Bromobenzene	U		0.133	0.500	1	01/24/2019 21:58	WG1228162
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 21:58	WG1228162
Bromochloromethane	U		0.145	0.500	1	01/24/2019 21:58	WG1228162
Bromoform	U		0.186	0.500	1	01/24/2019 21:58	WG1228162
Bromomethane	U		0.157	2.50	1	01/24/2019 21:58	WG1228162
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 21:58	WG1228162
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 21:58	WG1228162
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 21:58	WG1228162
Carbon disulfide	U		0.101	0.500	1	01/24/2019 21:58	WG1228162
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 21:58	WG1228162
Chlorobenzene	U		0.140	0.500	1	01/24/2019 21:58	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 21:58	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 21:58	WG1228162
Chloroform	U		0.0860	0.500	1	01/24/2019 21:58	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 21:58	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 21:58	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 21:58	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 21:58	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 21:58	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 21:58	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 21:58	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 21:58	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 21:58	WG1228162
1,1-Dichloroethene	6.88		0.188	0.500	1	01/24/2019 21:58	WG1228162
cis-1,2-Dichloroethene	718		18.7	100	200	01/30/2019 03:14	WG1229996
trans-1,2-Dichloroethene	6.49		0.152	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 21:58	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 21:58	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 21:58	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 21:58	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 21:58	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 21:58	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 21:58	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 21:58	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 21:58	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 21:58	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 21:58	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 21:58	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 21:58	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 21:58	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 21:58	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 21:58	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 21:58	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 21:58	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 21:58	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 21:58	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 21:58	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 21:58	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 21:58	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 21:58	WG1228162

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Tetrachloroethene	1120		39.8	100	200	01/30/2019 03:14	<a href="#">WG1229996</a>
Toluene	U		0.412	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Trichloroethene	499		30.6	100	200	01/30/2019 03:14	<a href="#">WG1229996</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Vinyl chloride	1.51		0.118	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 21:58	<a href="#">WG1228162</a>
(S) Toluene-d8	108			80.0-120		01/24/2019 21:58	<a href="#">WG1228162</a>
(S) Toluene-d8	85.4			80.0-120		01/30/2019 03:14	<a href="#">WG1229996</a>
(S) Dibromofluoromethane	102			75.0-120		01/24/2019 21:58	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	91.7			77.0-126		01/24/2019 21:58	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	99.0			77.0-126		01/30/2019 03:14	<a href="#">WG1229996</a>
(S) 1,2-Dichloroethane-d4	95.7			70.0-130		01/30/2019 03:14	<a href="#">WG1229996</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	3610	<u>B</u> <u>J</u>	2710	20000	1	01/29/2019 13:19	<a href="#">WG1229337</a>

## Sample Narrative:

L1063697-09 WG1229337: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	59.6	<u>J</u>	51.9	1000	1	01/24/2019 18:49	<a href="#">WG1227809</a>
Nitrate	39.8	<u>J</u>	22.7	100	1	01/24/2019 18:49	<a href="#">WG1227809</a>
Sulfate	U		77.4	5000	1	01/25/2019 08:55	<a href="#">WG1227809</a>

## Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	555	<u>B</u> <u>J</u>	102	1000	1	01/28/2019 17:50	<a href="#">WG1229248</a>

## Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	37.7	<u>J</u>	15.0	100	1	01/28/2019 01:23	<a href="#">WG1228207</a>
Manganese	1.94	<u>J</u>	0.250	5.00	1	01/28/2019 01:23	<a href="#">WG1228207</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

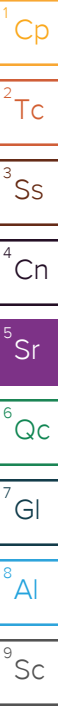
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 21:09	<a href="#">WG1227701</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/24/2019 21:09	<a href="#">WG1227701</a>

## Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	01/25/2019 14:10	<a href="#">WG1227529</a>
Ethane	U		0.296	1.29	1	01/25/2019 14:10	<a href="#">WG1227529</a>
Ethene	U		0.422	1.27	1	01/25/2019 14:10	<a href="#">WG1227529</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.43	<u>J</u> <u>J4</u>	1.05	25.0	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Benzene	U		0.0896	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromoform	U		0.186	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 22:17	<a href="#">WG1228162</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>







Collected date/time: 01/23/19 15:30

L1063697

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 22:17	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 22:17	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 22:17	WG1228162
Chloroform	0.151	U	0.0860	0.500	1	01/24/2019 22:17	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 22:17	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 22:17	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 22:17	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 22:17	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 22:17	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 22:17	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 22:17	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 22:17	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 22:17	WG1228162
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 22:17	WG1228162
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/30/2019 03:34	WG1229996
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 22:17	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 22:17	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 22:17	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 22:17	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 22:17	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 22:17	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 22:17	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 22:17	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 22:17	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 22:17	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 22:17	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 22:17	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 22:17	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 22:17	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 22:17	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 22:17	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 22:17	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 22:17	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 22:17	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 22:17	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 22:17	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 22:17	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 22:17	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 22:17	WG1228162
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 22:17	WG1228162
Tetrachloroethene	U		0.199	0.500	1	01/30/2019 03:34	WG1229996
Toluene	U		0.412	0.500	1	01/24/2019 22:17	WG1228162
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 22:17	WG1228162
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 22:17	WG1228162
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 22:17	WG1228162
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 22:17	WG1228162
Trichloroethene	U		0.153	0.500	1	01/30/2019 03:34	WG1229996
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 22:17	WG1228162
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 22:17	WG1228162
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 22:17	WG1228162
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 22:17	WG1228162
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 22:17	WG1228162

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/23/19 15:30

L1063697

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 22:17	<a href="#">WG1228162</a>
(S) Toluene-d8	101			80.0-120		01/24/2019 22:17	<a href="#">WG1228162</a>
(S) Toluene-d8	91.4			80.0-120		01/30/2019 03:34	<a href="#">WG1229996</a>
(S) Dibromofluoromethane	105			75.0-120		01/24/2019 22:17	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		01/24/2019 22:17	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		01/30/2019 03:34	<a href="#">WG1229996</a>
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		01/30/2019 03:34	<a href="#">WG1229996</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	1.05	25.0	1	01/24/2019 20:19	WG1228162
Acrylonitrile	U		0.873	5.00	1	01/24/2019 20:19	WG1228162
Benzene	U		0.0896	0.500	1	01/24/2019 20:19	WG1228162
Bromobenzene	U		0.133	0.500	1	01/24/2019 20:19	WG1228162
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 20:19	WG1228162
Bromochloromethane	U		0.145	0.500	1	01/24/2019 20:19	WG1228162
Bromoform	U		0.186	0.500	1	01/24/2019 20:19	WG1228162
Bromomethane	U		0.157	2.50	1	01/24/2019 20:19	WG1228162
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 20:19	WG1228162
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 20:19	WG1228162
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 20:19	WG1228162
Carbon disulfide	U		0.101	0.500	1	01/24/2019 20:19	WG1228162
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 20:19	WG1228162
Chlorobenzene	U		0.140	0.500	1	01/24/2019 20:19	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 20:19	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 20:19	WG1228162
Chloroform	U		0.0860	0.500	1	01/24/2019 20:19	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 20:19	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 20:19	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 20:19	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 20:19	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 20:19	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 20:19	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 20:19	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 20:19	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 20:19	WG1228162
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 20:19	WG1228162
cis-1,2-Dichloroethene	0.106	BJ	0.0933	0.500	1	01/24/2019 20:19	WG1228162
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 20:19	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 20:19	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 20:19	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 20:19	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 20:19	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 20:19	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 20:19	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 20:19	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 20:19	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 20:19	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 20:19	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 20:19	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 20:19	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 20:19	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 20:19	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 20:19	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 20:19	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 20:19	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 20:19	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 20:19	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 20:19	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 20:19	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 20:19	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 20:19	WG1228162

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 01/23/19 00:00

L1063697

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Tetrachloroethene	U		0.199	0.500	1	01/30/2019 03:53	<a href="#">WG1229996</a>
Toluene	0.427	↓	0.412	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 20:19	<a href="#">WG1228162</a>
(S) Toluene-d8	100			80.0-120		01/24/2019 20:19	<a href="#">WG1228162</a>
(S) Toluene-d8	91.8			80.0-120		01/30/2019 03:53	<a href="#">WG1229996</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 20:19	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	93.5			77.0-126		01/24/2019 20:19	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	97.2			77.0-126		01/30/2019 03:53	<a href="#">WG1229996</a>
(S) 1,2-Dichloroethane-d4	90.4			70.0-130		01/30/2019 03:53	<a href="#">WG1229996</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3379601-1 01/29/19 12:51

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	7300	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1063694-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063694-01 01/29/19 12:59 • (DUP) R3379601-2 01/29/19 13:06

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	68500	69500	1	1.43		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

L1063649-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1063649-02 01/29/19 15:49 • (DUP) R3379601-4 01/29/19 15:56

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	293000	301000	1	2.40		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3379601-3 01/29/19 14:13

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	102000	102	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



Method Blank (MB)

(MB) R3378638-1 01/24/19 09:46

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1063690-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1063690-02 01/24/19 16:26 • (DUP) R3378638-3 01/24/19 16:42

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	76100	76600	1	0.754		15
Nitrate	6660	6680	1	0.325		15
Sulfate	96500	96800	1	0.384		15

L1063738-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063738-01 01/24/19 19:53 • (DUP) R3378638-6 01/24/19 20:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	9580	9620	1	0.395		15
Nitrate	519	511	1	1.48		15
Sulfate	9540	9610	1	0.690		15

Laboratory Control Sample (LCS)

(LCS) R3378638-2 01/24/19 10:02

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	40000	99.9	80.0-120	
Nitrate	8000	8200	102	80.0-120	
Sulfate	40000	41200	103	80.0-120	



L1063690-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063690-02 01/24/19 16:26 • (MS) R3378638-4 01/24/19 16:58 • (MSD) R3378638-5 01/24/19 17:13

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	76100	123000	124000	94.2	95.5	1	80.0-120	E	E	0.494	15
Nitrate	5000	6660	11500	11600	97.1	98.3	1	80.0-120	E	E	0.486	15
Sulfate	50000	96500	142000	143000	92.0	93.4	1	80.0-120	E	E	0.492	15

L1063738-01 Original Sample (OS) • Matrix Spike (MS)

(OS) L1063738-01 01/24/19 19:53 • (MS) R3378638-7 01/24/19 20:25

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	9580	59800	100	1	80.0-120	
Nitrate	5000	519	5660	103	1	80.0-120	
Sulfate	50000	9540	58900	98.7	1	80.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3379231-1 01/28/19 12:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	222	↓	102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1063581-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1063581-08 01/28/19 16:27 • (DUP) R3379231-3 01/28/19 16:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	5200	5260	1	1.13		20

L1064289-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1064289-02 01/28/19 20:02 • (DUP) R3379231-6 01/28/19 20:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	4820	4810	1	0.332		20

Laboratory Control Sample (LCS)

(LCS) R3379231-2 01/28/19 13:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	79200	106	85.0-115	

L1063697-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063697-09 01/28/19 17:50 • (MS) R3379231-4 01/28/19 18:08 • (MSD) R3379231-5 01/28/19 18:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	555	56500	56900	112	113	1	80.0-120			0.653	20

L1064289-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064289-03 01/28/19 20:30 • (MS) R3379231-7 01/28/19 20:48 • (MSD) R3379231-8 01/28/19 21:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	4890	59500	59600	109	110	1	80.0-120			0.235	20





Method Blank (MB)

(MB) R3378995-1 01/28/19 00:41

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378995-2 01/28/19 00:46 • (LCSD) R3378995-3 01/28/19 00:50

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	5450	5380	109	108	80.0-120			1.30	20
Manganese	50.0	54.1	52.9	108	106	80.0-120			2.33	20

L1063697-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063697-04 01/28/19 00:55 • (MS) R3378995-5 01/28/19 01:04 • (MSD) R3378995-6 01/28/19 01:09

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	95.4	5240	5320	103	105	1	75.0-125			1.55	20
Manganese	50.0	82.0	134	134	105	104	1	75.0-125			0.371	20



Method Blank (MB)

(MB) R3378909-3 01/24/19 14:43

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120

Laboratory Control Sample (LCS)

(LCS) R3378909-2 01/24/19 14:00

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5500	5370	97.6	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			104	78.0-120	

L1063589-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063589-01 01/24/19 18:35 • (MS) R3378909-6 01/25/19 01:37 • (MSD) R3378909-7 01/25/19 01:59

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	134	3860	4090	67.8	71.8	1	10.0-155			5.60	21
(S) a,a,a-Trifluorotoluene(FID)					104	105		78.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3378764-1 01/25/19 11:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1063310-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063310-01 01/25/19 11:40 • (DUP) R3378764-2 01/25/19 13:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	66.9	65.5	1	2.06		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1063312-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063312-01 01/25/19 11:43 • (DUP) R3378764-3 01/25/19 13:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	78.5	76.4	1	2.79		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1063700-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1063700-01 01/25/19 14:19 • (DUP) R3378764-4 01/25/19 14:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378764-5 01/25/19 14:51 • (LCSD) R3378764-6 01/25/19 15:09

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Methane	67.8	71.3	70.4	105	104	85.0-115			1.24	20
Ethane	129	112	113	86.9	87.5	85.0-115			0.741	20
Ethene	127	111	112	87.1	88.2	85.0-115			1.27	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3378860-3 01/24/19 09:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
2,2-Dichloropropane	U		0.0929	0.500
Di-isopropyl ether	U		0.0924	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3378860-3 01/24/19 09:55

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
2-Hexanone	U		0.757	5.00
n-Hexane	U		0.305	5.00
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	0.260	U	0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl acetate	U		0.645	5.00
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	103			80.0-120
(S) Dibromofluoromethane	102			75.0-120
(S) a,a,a-Trifluorotoluene	98.9			80.0-120
(S) 4-Bromofluorobenzene	93.1			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378860-1 01/24/19 08:56 • (LCSD) R3378860-2 01/24/19 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	125	193	168	155	134	19.0-160			14.0	27
Acrylonitrile	125	155	144	124	115	55.0-149			7.57	20
Benzene	25.0	26.2	24.8	105	99.1	70.0-123			5.66	20
Bromobenzene	25.0	24.9	23.9	99.7	95.5	73.0-121			4.32	20
Bromodichloromethane	25.0	27.9	26.1	112	104	75.0-120			6.74	20
Bromochloromethane	25.0	27.1	25.4	109	102	76.0-122			6.60	20
Bromoform	25.0	24.9	23.7	99.5	94.8	68.0-132			4.87	20
Bromomethane	25.0	28.2	26.4	113	105	10.0-160			6.67	25
n-Butylbenzene	25.0	26.8	25.2	107	101	73.0-125			6.14	20
sec-Butylbenzene	25.0	26.8	25.5	107	102	75.0-125			5.21	20
tert-Butylbenzene	25.0	26.1	25.0	104	100	76.0-124			4.01	20
Carbon disulfide	25.0	26.5	25.6	106	102	61.0-128			3.53	20
Carbon tetrachloride	25.0	24.4	23.8	97.6	95.2	68.0-126			2.48	20
Chlorobenzene	25.0	25.2	24.5	101	98.0	80.0-121			2.74	20
Chlorodibromomethane	25.0	26.1	25.3	104	101	77.0-125			3.06	20
Chloroethane	25.0	30.5	28.3	122	113	47.0-150			7.58	20
Chloroform	25.0	27.4	26.1	110	105	73.0-120			4.83	20
Chloromethane	25.0	27.8	27.1	111	108	41.0-142			2.71	20
2-Chlorotoluene	25.0	25.5	24.4	102	97.5	76.0-123			4.34	20
4-Chlorotoluene	25.0	25.8	24.8	103	99.2	75.0-122			3.92	20
1,2-Dibromo-3-Chloropropane	25.0	25.2	24.3	101	97.3	58.0-134			3.35	20
1,2-Dibromoethane	25.0	26.6	25.7	106	103	80.0-122			3.38	20
Dibromomethane	25.0	28.7	27.6	115	111	80.0-120			3.94	20
1,2-Dichlorobenzene	25.0	26.3	24.9	105	99.5	79.0-121			5.75	20
1,3-Dichlorobenzene	25.0	25.6	24.4	102	97.5	79.0-120			5.00	20
1,4-Dichlorobenzene	25.0	25.5	24.7	102	98.8	79.0-120			3.19	20
Dichlorodifluoromethane	25.0	25.4	24.8	101	99.2	51.0-149			2.26	20
1,1-Dichloroethane	25.0	27.7	26.3	111	105	70.0-126			5.23	20
1,2-Dichloroethane	25.0	28.6	27.1	115	108	70.0-128			5.57	20
1,1-Dichloroethene	25.0	25.6	25.3	102	101	71.0-124			1.17	20
cis-1,2-Dichloroethene	25.0	27.5	26.5	110	106	73.0-120			3.74	20
trans-1,2-Dichloroethene	25.0	26.9	26.1	108	104	73.0-120			3.00	20
1,2-Dichloropropane	25.0	28.1	26.7	112	107	77.0-125			4.96	20
1,1-Dichloropropene	25.0	27.8	26.3	111	105	74.0-126			5.36	20
1,3-Dichloropropane	25.0	26.6	25.5	107	102	80.0-120			4.55	20
cis-1,3-Dichloropropene	25.0	26.0	25.0	104	100	80.0-123			4.04	20
trans-1,3-Dichloropropene	25.0	26.8	25.5	107	102	78.0-124			4.72	20
trans-1,4-Dichloro-2-butene	25.0	21.7	20.7	86.9	82.7	33.0-144			4.97	20
2,2-Dichloropropane	25.0	24.0	22.8	96.2	91.3	58.0-130			5.21	20
Di-isopropyl ether	25.0	28.8	27.2	115	109	58.0-138			5.73	20

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378860-1 01/24/19 08:56 • (LCSD) R3378860-2 01/24/19 09:16

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Ethylbenzene	25.0	25.8	24.4	103	97.8	79.0-123			5.38	20
Hexachloro-1,3-butadiene	25.0	24.1	22.9	96.4	91.7	54.0-138			4.97	20
2-Hexanone	125	144	138	115	110	67.0-149			4.22	20
n-Hexane	25.0	25.5	24.3	102	97.0	57.0-133			4.91	20
Iodomethane	125	123	120	98.1	96.0	33.0-147			2.11	26
Isopropylbenzene	25.0	25.1	24.1	101	96.6	76.0-127			3.99	20
p-Isopropyltoluene	25.0	26.4	25.1	106	101	76.0-125			4.95	20
2-Butanone (MEK)	125	149	138	119	110	44.0-160			7.94	20
Methylene Chloride	25.0	26.4	25.7	106	103	67.0-120			2.62	20
4-Methyl-2-pentanone (MIBK)	125	143	135	114	108	68.0-142			5.88	20
Methyl tert-butyl ether	25.0	27.6	26.3	111	105	68.0-125			4.92	20
Naphthalene	25.0	23.6	23.4	94.3	93.5	54.0-135			0.895	20
n-Propylbenzene	25.0	25.1	24.1	100	96.2	77.0-124			4.12	20
Styrene	25.0	25.8	25.2	103	101	73.0-130			2.29	20
1,1,1,2-Tetrachloroethane	25.0	25.0	24.1	100	96.6	75.0-125			3.49	20
1,1,2,2-Tetrachloroethane	25.0	24.4	23.7	97.6	94.7	65.0-130			3.07	20
1,1,2-Trichlorotrifluoroethane	25.0	24.9	24.1	99.7	96.4	69.0-132			3.42	20
Tetrachloroethene	25.0	23.6	23.0	94.4	92.2	72.0-132			2.39	20
Toluene	25.0	24.9	24.0	99.7	96.2	79.0-120			3.64	20
1,2,3-Trichlorobenzene	25.0	23.3	22.5	93.2	89.9	50.0-138			3.69	20
1,2,4-Trichlorobenzene	25.0	24.5	23.9	98.0	95.5	57.0-137			2.58	20
1,1,1-Trichloroethane	25.0	27.5	26.2	110	105	73.0-124			4.63	20
1,1,2-Trichloroethane	25.0	26.6	25.7	106	103	80.0-120			3.33	20
Trichloroethene	25.0	26.5	25.1	106	100	78.0-124			5.54	20
Trichlorofluoromethane	25.0	25.8	24.7	103	98.6	59.0-147			4.58	20
1,2,3-Trichloropropane	25.0	26.0	25.3	104	101	73.0-130			2.65	20
1,2,4-Trimethylbenzene	25.0	26.1	24.7	104	98.9	76.0-121			5.51	20
1,2,3-Trimethylbenzene	25.0	25.6	24.4	102	97.7	77.0-120			4.62	20
1,3,5-Trimethylbenzene	25.0	25.4	24.6	101	98.4	76.0-122			3.07	20
Vinyl acetate	125	86.7	93.7	69.3	74.9	11.0-160			7.76	20
Vinyl chloride	25.0	28.0	26.5	112	106	67.0-131			5.34	20
Xylenes, Total	75.0	77.4	74.2	103	98.9	79.0-123			4.22	20
(S) Toluene-d8				97.8	98.7	80.0-120				
(S) Dibromofluoromethane				102	102	75.0-120				
(S) a,a,a-Trifluorotoluene				96.7	96.7	80.0-120				
(S) 4-Bromofluorobenzene				93.1	95.3	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3378861-3 01/24/19 19:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
Carbon disulfide	U		0.101	0.500
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	0.187	U	0.0933	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
cis-1,3-Dichloropropene	U		0.0976	0.500
n-Hexane	U		0.305	5.00
trans-1,3-Dichloropropene	U		0.222	0.500
2,2-Dichloropropane	U		0.0929	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3378861-3 01/24/19 19:59

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Iodomethane	U		0.377	10.0
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	0.237	U	0.157	1.00
2-Hexanone	U		0.757	5.00
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	0.180	U	0.174	2.50
Vinyl acetate	U		0.645	5.00
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
Toluene	U		0.412	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
1,2,3-Trichlorobenzene	0.232	U	0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,2,4-Trimethylbenzene	U		0.123	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	101			80.0-120
(S) Dibromofluoromethane	104			75.0-120
(S) 4-Bromofluorobenzene	93.8			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378861-1 01/24/19 18:59 • (LCSD) R3378861-2 01/24/19 19:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Carbon disulfide	25.0	25.9	26.3	104	105	61.0-128			1.46	20
trans-1,4-Dichloro-2-butene	25.0	20.4	20.5	81.4	81.9	33.0-144			0.553	20
n-Hexane	25.0	27.3	25.5	109	102	57.0-133			6.95	20
Iodomethane	125	121	124	96.8	98.8	33.0-147			2.06	26
Acetone	125	218	203	174	162	19.0-160	J4	J4	7.07	27
Acrylonitrile	125	157	151	126	121	55.0-149			3.95	20
Benzene	25.0	26.6	26.1	106	104	70.0-123			1.87	20
Bromobenzene	25.0	24.8	24.9	99.3	99.6	73.0-121			0.281	20
Bromodichloromethane	25.0	27.0	26.8	108	107	75.0-120			1.08	20
Bromochloromethane	25.0	26.6	26.7	106	107	76.0-122			0.423	20
Bromoform	25.0	23.4	23.9	93.7	95.7	68.0-132			2.13	20
Bromomethane	25.0	30.8	27.9	123	112	10.0-160			9.91	25
n-Butylbenzene	25.0	27.4	27.9	110	112	73.0-125			1.67	20
sec-Butylbenzene	25.0	26.8	27.3	107	109	75.0-125			2.00	20
tert-Butylbenzene	25.0	25.8	26.6	103	106	76.0-124			3.11	20
Carbon tetrachloride	25.0	24.9	24.9	99.4	99.5	68.0-126			0.0917	20
Chlorobenzene	25.0	25.6	25.5	102	102	80.0-121			0.479	20
Chlorodibromomethane	25.0	25.5	25.4	102	102	77.0-125			0.500	20
Chloroethane	25.0	30.5	29.6	122	118	47.0-150			3.00	20
Chloroform	25.0	27.9	27.0	112	108	73.0-120			3.38	20
Chloromethane	25.0	27.8	27.5	111	110	41.0-142			1.26	20
2-Chlorotoluene	25.0	25.4	25.6	102	103	76.0-123			0.994	20
Vinyl acetate	125	138	125	110	100	11.0-160			9.62	20
4-Chlorotoluene	25.0	25.8	26.0	103	104	75.0-122			1.03	20
1,2-Dibromo-3-Chloropropane	25.0	24.0	24.7	96.0	98.7	58.0-134			2.79	20
1,2-Dibromoethane	25.0	26.6	26.1	106	104	80.0-122			1.91	20
Dibromomethane	25.0	27.9	27.8	112	111	80.0-120			0.394	20
1,2-Dichlorobenzene	25.0	25.5	26.2	102	105	79.0-121			2.57	20
1,3-Dichlorobenzene	25.0	25.7	25.5	103	102	79.0-120			0.729	20
1,4-Dichlorobenzene	25.0	25.7	25.4	103	101	79.0-120			1.31	20
Dichlorodifluoromethane	25.0	23.6	24.4	94.6	97.4	51.0-149			2.99	20
1,1-Dichloroethane	25.0	27.9	27.7	112	111	70.0-126			0.831	20
1,2-Dichloroethane	25.0	28.3	27.7	113	111	70.0-128			2.15	20
1,1-Dichloroethene	25.0	25.8	25.9	103	104	71.0-124			0.465	20
cis-1,2-Dichloroethene	25.0	28.2	27.8	113	111	73.0-120			1.51	20
trans-1,2-Dichloroethene	25.0	27.1	27.6	108	110	73.0-120			1.83	20
1,2-Dichloropropane	25.0	28.2	27.3	113	109	77.0-125			3.47	20
1,1-Dichloropropene	25.0	28.4	27.5	113	110	74.0-126			2.96	20
1,3-Dichloropropane	25.0	26.7	26.4	107	105	80.0-120			1.39	20
cis-1,3-Dichloropropene	25.0	26.5	26.2	106	105	80.0-123			1.13	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378861-1 01/24/19 18:59 • (LCSD) R3378861-2 01/24/19 19:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
trans-1,3-Dichloropropene	25.0	26.8	26.6	107	107	78.0-124			0.645	20
2,2-Dichloropropane	25.0	27.3	27.3	109	109	58.0-130			0.124	20
Di-isopropyl ether	25.0	28.2	28.0	113	112	58.0-138			0.872	20
Ethylbenzene	25.0	26.2	26.2	105	105	79.0-123			0.0242	20
Hexachloro-1,3-butadiene	25.0	24.0	25.6	96.0	102	54.0-138			6.30	20
2-Hexanone	125	142	139	114	112	67.0-149			1.82	20
Isopropylbenzene	25.0	25.1	25.9	100	104	76.0-127			3.16	20
p-Isopropyltoluene	25.0	26.7	26.9	107	108	76.0-125			0.644	20
2-Butanone (MEK)	125	149	143	120	115	44.0-160			4.14	20
Methylene Chloride	25.0	26.8	26.7	107	107	67.0-120			0.124	20
4-Methyl-2-pentanone (MIBK)	125	140	138	112	110	68.0-142			1.92	20
Methyl tert-butyl ether	25.0	26.4	26.5	106	106	68.0-125			0.375	20
Naphthalene	25.0	22.4	24.9	89.8	99.7	54.0-135			10.4	20
n-Propylbenzene	25.0	25.5	25.9	102	104	77.0-124			1.57	20
Styrene	25.0	25.6	26.1	102	104	73.0-130			2.03	20
1,1,1,2-Tetrachloroethane	25.0	25.3	25.7	101	103	75.0-125			1.42	20
1,1,2,2-Tetrachloroethane	25.0	25.3	25.2	101	101	65.0-130			0.697	20
Toluene	25.0	25.3	25.1	101	101	79.0-120			0.615	20
1,1,2-Trichlorotrifluoroethane	25.0	25.8	25.3	103	101	69.0-132			1.65	20
1,2,3-Trichlorobenzene	25.0	22.9	24.9	91.8	99.5	50.0-138			8.12	20
1,2,4-Trichlorobenzene	25.0	24.4	25.5	97.7	102	57.0-137			4.42	20
1,1,1-Trichloroethane	25.0	27.4	27.4	109	109	73.0-124			0.0214	20
1,1,2-Trichloroethane	25.0	26.6	25.9	106	104	80.0-120			2.39	20
Trichloroethene	25.0	25.6	26.0	102	104	78.0-124			1.47	20
Trichlorofluoromethane	25.0	26.5	26.5	106	106	59.0-147			0.160	20
1,2,3-Trichloropropane	25.0	25.0	24.9	100	99.4	73.0-130			0.659	20
1,2,3-Trimethylbenzene	25.0	25.2	26.1	101	104	77.0-120			3.77	20
1,2,4-Trimethylbenzene	25.0	26.1	26.6	104	106	76.0-121			1.96	20
1,3,5-Trimethylbenzene	25.0	25.3	25.9	101	103	76.0-122			2.22	20
Vinyl chloride	25.0	27.9	28.1	112	112	67.0-131			0.529	20
Xylenes, Total	75.0	78.7	78.4	105	105	79.0-123			0.382	20
(S) Toluene-d8				100	99.1	80.0-120				
(S) Dibromofluoromethane				102	102	75.0-120				
(S) 4-Bromofluorobenzene				92.5	93.3	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3379557-4 01/27/19 12:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
(S) Toluene-d8	105			80.0-120
(S) Dibromofluoromethane	94.1			75.0-120
(S) 4-Bromofluorobenzene	86.4			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379557-1 01/27/19 11:18 • (LCSD) R3379557-2 01/27/19 11:38

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	25.0	25.8	25.7	103	103	73.0-120			0.361	20
Tetrachloroethene	25.0	28.1	29.8	112	119	72.0-132			5.82	20
Trichloroethene	25.0	27.6	27.8	110	111	78.0-124			0.679	20
(S) Toluene-d8				101	106	80.0-120				
(S) Dibromofluoromethane				97.4	98.9	75.0-120				
(S) 4-Bromofluorobenzene				82.3	86.2	77.0-126				

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3379928-3 01/29/19 18:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
(S) Toluene-d8	90.7			80.0-120
(S) 4-Bromofluorobenzene	93.0			77.0-126
(S) 1,2-Dichloroethane-d4	91.7			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379928-1 01/29/19 17:57 • (LCSD) R3379928-2 01/29/19 18:16

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
cis-1,2-Dichloroethene	25.0	26.9	27.1	107	108	73.0-120			0.815	20
Tetrachloroethene	25.0	25.5	26.2	102	105	72.0-132			2.89	20
Trichloroethene	25.0	26.4	27.0	105	108	78.0-124			2.28	20
(S) Toluene-d8				91.2	90.5	80.0-120				
(S) 4-Bromofluorobenzene				94.8	94.7	77.0-126				
(S) 1,2-Dichloroethane-d4				95.3	90.6	70.0-130				

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

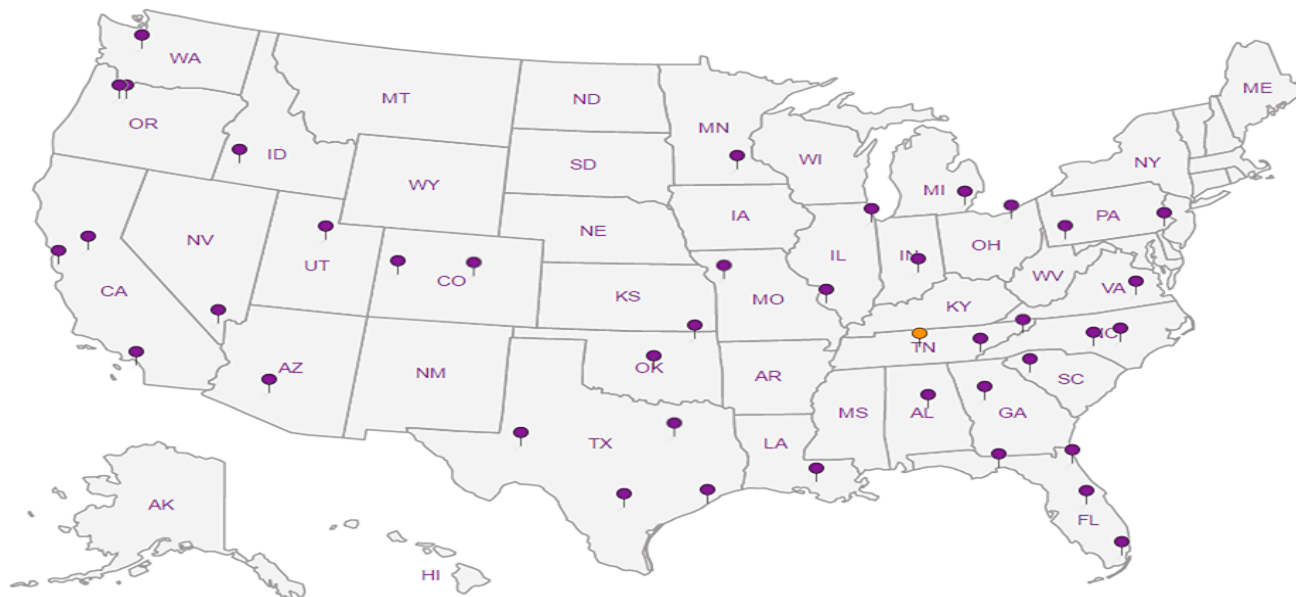
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Pres  
Chk

Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
baldeman@pesenv.com;

Project  
Description: American Linen

City/State  
Collected:

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.601

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
Alyssa Witt

Site/Facility ID #  
American Linen

P.O. #

Collected by (signature):  
Alyssa Witt

Rush? (Lab MUST Be Notified)

Quote #

Same Day Five Day  
Next Day 5 Day (Rad Only)  
Two Day 10 Day (Rad Only)  
Three Day

Date Results Needed

Immediately  
Packed on Ice N  Y

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Entrs	* NO3, SO4, Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (8260LLC) 40mlAmb-HCl	Remarks	Sample # (Lab only)
MW109-012319	Grab	GW	40	1/23/19	1420	3							X		-01
MW-148-012319		GW	75	1-23-19	1225	12	X	X	X	X	X	X	X		02
MW-105-012319		GW	135	1-23-19	1030	12	X	X	X	X	X	X	X		03
BB-8-012319		GW	35	1-23-19	1100	12	X	X	X	X	X	X	X		04
MW111-012319		GW	75	1-23-19	1400	3							X		05
MW103-012319		GW	107	1-23-19	1500	3							X		06
MW110-012319		GW	40	1-23-19	1520	3							X		07
MW905-012319		GW	40	1-23-19	1600	3							X		08
EQ-012319		GW	-	1-23-19	1530	12	X	X	X	X	X	X	X		09
Trip Blank-012319	✓	GW	-	-	-	1							X		10

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - Waste Water  
DW - Drinking Water  
OT - Other

Remarks:  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_  
Samples returned via:  
 UPS  FedEx  Courier  
Tracking # 4757 5076 6531

Sample Receipt Checklist:  
COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
\* If Applicable  
VOA zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N

Relinquished by: (Signature) *[Signature]* Date: 1/23/19 Time: 1700  
Received by: (Signature) Trip Blank Received:  Yes  No (HCl/MeOH TBR)  
Relinquished by: (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received by: (Signature) Temp: °C Bottles Received: 0.9-1.1 = 1.03 63  
Relinquished by: (Signature) Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received for lab by: (Signature) *COM* Date: 1/24/19 Time: 8:45  
Hold: \_\_\_\_\_ Condition: NCF 1 OK

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_

Face Analytical  
National Center for Testing & Accreditation  
12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5850

L# L1063697  
D231

Acctnum: PESENVSWA  
Template: T143845  
Prelgin: P685358  
TSR: 110 - Brian Ford  
PB: 12/13/18 UWB  
Shipped Via: FedEX Ground

January 29, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1064133  
Samples Received: 01/25/2019  
Project Number: 1413.001.05.601  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Jason Romer  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>
<b>Tc: Table of Contents</b>	<b>2</b>
<b>Ss: Sample Summary</b>	<b>3</b>
<b>Cn: Case Narrative</b>	<b>5</b>
<b>Sr: Sample Results</b>	<b>6</b>
MW102-012419 L1064133-01	6
MW-158A-012419 L1064133-02	9
MW-157-012419 L1064133-03	12
MW-156-012419 L1064133-04	15
MW120-012419 L1064133-05	18
TRIP BLANK-012419 L1064133-06	21
<b>Qc: Quality Control Summary</b>	<b>23</b>
Wet Chemistry by Method 2320 B-2011	23
Wet Chemistry by Method 9056A	24
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<b>Al: Accreditations &amp; Locations</b>	<b>36</b>
<b>Sc: Sample Chain of Custody</b>	<b>37</b>



# SAMPLE SUMMARY



## MW102-012419 L1064133-01 GW

Collected by  
Ben Hecht  
Collected date/time  
01/24/19 10:10  
Received date/time  
01/25/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 13:30	01/28/19 13:30	GB
Wet Chemistry by Method 9056A	WG1228307	1	01/25/19 17:01	01/25/19 17:01	ELN
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 13:42	01/28/19 13:42	EEM
Metals (ICPMS) by Method 6020B	WG1228813	1	01/26/19 13:03	01/26/19 16:01	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229109	1	01/27/19 21:23	01/27/19 21:23	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1228571	1	01/28/19 13:54	01/28/19 13:54	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228529	1	01/25/19 21:15	01/25/19 21:15	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229442	1	01/28/19 18:13	01/28/19 18:13	BMB

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

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Qc

## MW-158A-012419 L1064133-02 GW

Collected by  
Ben Hecht  
Collected date/time  
01/24/19 12:45  
Received date/time  
01/25/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 13:49	01/28/19 13:49	GB
Wet Chemistry by Method 9056A	WG1228307	1	01/25/19 17:12	01/25/19 17:12	ELN
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 14:06	01/28/19 14:06	EEM
Metals (ICPMS) by Method 6020B	WG1228813	1	01/26/19 13:03	01/26/19 16:05	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229109	1	01/27/19 21:46	01/27/19 21:46	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1228571	1	01/28/19 13:57	01/28/19 13:57	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228529	1	01/25/19 21:34	01/25/19 21:34	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229442	1	01/28/19 18:34	01/28/19 18:34	BMB

7  
Gl

8  
Al

9  
Sc

## MW-157-012419 L1064133-03 GW

Collected by  
Ben Hecht  
Collected date/time  
01/24/19 14:15  
Received date/time  
01/25/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 13:58	01/28/19 13:58	GB
Wet Chemistry by Method 9056A	WG1228307	1	01/25/19 17:23	01/25/19 17:23	ELN
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 14:21	01/28/19 14:21	EEM
Metals (ICPMS) by Method 6020B	WG1228813	1	01/26/19 13:03	01/26/19 16:10	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229109	1	01/27/19 22:09	01/27/19 22:09	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1228571	1	01/28/19 14:12	01/28/19 14:12	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228529	1	01/25/19 21:53	01/25/19 21:53	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229442	200	01/28/19 19:15	01/28/19 19:15	BMB

## MW-156-012419 L1064133-04 GW

Collected by  
Ben Hecht  
Collected date/time  
01/24/19 14:15  
Received date/time  
01/25/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 14:06	01/28/19 14:06	GB
Wet Chemistry by Method 9056A	WG1228307	1	01/25/19 17:34	01/25/19 17:34	ELN
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 14:39	01/28/19 14:39	EEM
Metals (ICPMS) by Method 6020B	WG1228813	1	01/26/19 13:03	01/26/19 16:14	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229109	1	01/27/19 22:32	01/27/19 22:32	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1228571	1	01/28/19 14:20	01/28/19 14:20	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228529	1	01/25/19 22:12	01/25/19 22:12	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229442	100	01/28/19 19:36	01/28/19 19:36	BMB

# SAMPLE SUMMARY



## MW120-012419 L1064133-05 GW

Collected by: Ben Hecht  
 Collected date/time: 01/24/19 12:30  
 Received date/time: 01/25/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 14:14	01/28/19 14:14	GB
Wet Chemistry by Method 9056A	WG1228307	1	01/25/19 17:44	01/25/19 17:44	ELN
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 14:56	01/28/19 14:56	EEM
Metals (ICPMS) by Method 6020B	WG1228813	1	01/26/19 13:03	01/26/19 15:17	JPD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229109	1	01/27/19 22:54	01/27/19 22:54	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1228571	1	01/28/19 14:23	01/28/19 14:23	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228529	1	01/25/19 22:31	01/25/19 22:31	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229442	1	01/28/19 18:55	01/28/19 18:55	BMB

1  
Cp

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Tc

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Ss

4  
Cn

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Sr

## TRIP BLANK-012419 L1064133-06 GW

Collected by: Ben Hecht  
 Collected date/time: 01/24/19 00:00  
 Received date/time: 01/25/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229109	1	01/27/19 21:01	01/27/19 21:01	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1228529	1	01/25/19 17:39	01/25/19 17:39	ACG
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229442	1	01/28/19 17:52	01/28/19 17:52	BMB

6  
Qc

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Gl

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Al

9  
Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	162000		2710	20000	1	01/28/2019 13:30	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-01 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	5190		51.9	1000	1	01/25/2019 17:01	<a href="#">WG1228307</a>
Nitrate	55.3	J	22.7	100	1	01/25/2019 17:01	<a href="#">WG1228307</a>
Sulfate	1740	J	77.4	5000	1	01/25/2019 17:01	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4360		102	1000	1	01/28/2019 13:42	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6460		15.0	100	1	01/26/2019 16:01	<a href="#">WG1228813</a>
Manganese	363		0.250	5.00	1	01/26/2019 16:01	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/27/2019 21:23	<a href="#">WG1229109</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		01/27/2019 21:23	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	172		0.287	0.678	1	01/28/2019 13:54	<a href="#">WG1228571</a>
Ethane	U		0.296	1.29	1	01/28/2019 13:54	<a href="#">WG1228571</a>
Ethene	U		0.422	1.27	1	01/28/2019 13:54	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 21:15	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Carbon disulfide	U		0.101	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 21:15	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 21:15	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 21:15	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 21:15	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 21:15	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 21:15	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 21:15	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 21:15	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 21:15	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 21:15	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 21:15	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 21:15	WG1228529
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 21:15	WG1228529
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 21:15	WG1228529
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/25/2019 21:15	WG1228529
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 21:15	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 21:15	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 21:15	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 21:15	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 21:15	WG1228529
trans-1,4-Dichloro-2-butene	U	JO	0.257	5.00	1	01/28/2019 18:13	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 21:15	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 21:15	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 21:15	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 21:15	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 21:15	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 21:15	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 21:15	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 21:15	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 21:15	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 21:15	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 21:15	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 21:15	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 21:15	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 21:15	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 21:15	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 21:15	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 21:15	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 21:15	WG1228529
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 21:15	WG1228529
Tetrachloroethene	0.220	J	0.199	0.500	1	01/25/2019 21:15	WG1228529
Toluene	U		0.412	0.500	1	01/25/2019 21:15	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 21:15	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 21:15	WG1228529
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 21:15	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 21:15	WG1228529
Trichloroethene	U		0.153	0.500	1	01/25/2019 21:15	WG1228529
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 21:15	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 21:15	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 21:15	WG1228529
1,2,3-Trimethylbenzene	U	JO J4	0.0739	0.500	1	01/25/2019 21:15	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 21:15	WG1228529

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Vinyl chloride	U		0.118	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:15	<a href="#">WG1228529</a>
(S) Toluene-d8	99.8			80.0-120		01/25/2019 21:15	<a href="#">WG1228529</a>
(S) Toluene-d8	109			80.0-120		01/28/2019 18:13	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	91.5			75.0-120		01/25/2019 21:15	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	98.7			75.0-120		01/28/2019 18:13	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 21:15	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	99.3			80.0-120		01/28/2019 18:13	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		01/25/2019 21:15	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	90.5			77.0-126		01/28/2019 18:13	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	329000		2710	20000	1	01/28/2019 13:49	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-02 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	29700		51.9	1000	1	01/25/2019 17:12	<a href="#">WG1228307</a>
Nitrate	U		22.7	100	1	01/25/2019 17:12	<a href="#">WG1228307</a>
Sulfate	26800		77.4	5000	1	01/25/2019 17:12	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	7950		102	1000	1	01/28/2019 14:06	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	181000		15.0	100	1	01/26/2019 16:05	<a href="#">WG1228813</a>
Manganese	3070		0.250	5.00	1	01/26/2019 16:05	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/27/2019 21:46	<a href="#">WG1229109</a>
(S) <i>a,a</i> -Trifluorotoluene(FID)	104			78.0-120		01/27/2019 21:46	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	196		0.287	0.678	1	01/28/2019 13:57	<a href="#">WG1228571</a>
Ethane	2.52		0.296	1.29	1	01/28/2019 13:57	<a href="#">WG1228571</a>
Ethene	8.12		0.422	1.27	1	01/28/2019 13:57	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Carbon disulfide	0.491	J	0.101	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/24/19 12:45

L1064133

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Chloroethane	U		0.141	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Chloroform	U		0.0860	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Chloromethane	U		0.153	1.25	1	01/25/2019 21:34	<a href="#">WG1228529</a>
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Dibromomethane	U		0.117	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
cis-1,2-Dichloroethene	2.54		0.0933	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	01/28/2019 18:34	<a href="#">WG1229442</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Ethylbenzene	U		0.158	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
2-Hexanone	U		0.757	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
n-Hexane	U		0.305	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Iodomethane	U		0.377	10.0	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Methylene Chloride	U		1.07	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Naphthalene	U		0.174	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Styrene	U		0.117	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Tetrachloroethene	U		0.199	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Toluene	U		0.412	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Trichloroethene	0.325	<u>J</u>	0.153	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Vinyl chloride	7.58		0.118	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
(S) Toluene-d8	100			80.0-120		01/25/2019 21:34	<a href="#">WG1228529</a>
(S) Toluene-d8	107			80.0-120		01/28/2019 18:34	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	90.9			75.0-120		01/25/2019 21:34	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	101			75.0-120		01/28/2019 18:34	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 21:34	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	97.4			80.0-120		01/28/2019 18:34	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	94.7			77.0-126		01/25/2019 21:34	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	93.5			77.0-126		01/28/2019 18:34	<a href="#">WG1229442</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	421000		2710	20000	1	01/28/2019 13:58	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-03 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	43200		51.9	1000	1	01/25/2019 17:23	<a href="#">WG1228307</a>
Nitrate	U		22.7	100	1	01/25/2019 17:23	<a href="#">WG1228307</a>
Sulfate	24100		77.4	5000	1	01/25/2019 17:23	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	12900		102	1000	1	01/28/2019 14:21	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5250		15.0	100	1	01/26/2019 16:10	<a href="#">WG1228813</a>
Manganese	1170		0.250	5.00	1	01/26/2019 16:10	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1870		31.6	100	1	01/27/2019 22:09	<a href="#">WG1229109</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/27/2019 22:09	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4970		0.287	0.678	1	01/28/2019 14:12	<a href="#">WG1228571</a>
Ethane	37.4		0.296	1.29	1	01/28/2019 14:12	<a href="#">WG1228571</a>
Ethene	124		0.422	1.27	1	01/28/2019 14:12	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.31	J	1.05	25.0	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Carbon disulfide	U		0.101	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/24/19 14:15

L1064133

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Chloroethane	0.505	<u>J</u>	0.141	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Chloroform	U		0.0860	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Chloromethane	U		0.153	1.25	1	01/25/2019 21:53	<a href="#">WG1228529</a>
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Dibromomethane	U		0.117	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,1-Dichloroethene	16.7		0.188	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
cis-1,2-Dichloroethene	4250		18.7	100	200	01/28/2019 19:15	<a href="#">WG1229442</a>
trans-1,2-Dichloroethene	14.2		0.152	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	51.4	1000	200	01/28/2019 19:15	<a href="#">WG1229442</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Ethylbenzene	U		0.158	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
2-Hexanone	U		0.757	5.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
n-Hexane	U		0.305	5.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Iodomethane	U		0.377	10.0	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Methylene Chloride	U		1.07	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Naphthalene	U		0.174	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Styrene	U		0.117	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Tetrachloroethene	U		0.199	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Toluene	U		0.412	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Trichloroethene	1.65		0.153	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,2,3-Trimethylbenzene	U	<u>J4</u>	0.0739	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Vinyl chloride	674		23.6	100	200	01/28/2019 19:15	<a href="#">WG1229442</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
(S) Toluene-d8	99.5			80.0-120		01/25/2019 21:53	<a href="#">WG1228529</a>
(S) Toluene-d8	107			80.0-120		01/28/2019 19:15	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	93.1			75.0-120		01/25/2019 21:53	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	100			75.0-120		01/28/2019 19:15	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 21:53	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	101			80.0-120		01/28/2019 19:15	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	93.1			77.0-126		01/25/2019 21:53	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	91.3			77.0-126		01/28/2019 19:15	<a href="#">WG1229442</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	554000		2710	20000	1	01/28/2019 14:06	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-04 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	25100		51.9	1000	1	01/25/2019 17:34	<a href="#">WG1228307</a>
Nitrate	U		22.7	100	1	01/25/2019 17:34	<a href="#">WG1228307</a>
Sulfate	67600		77.4	5000	1	01/25/2019 17:34	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	34300		102	1000	1	01/28/2019 14:39	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	3420		15.0	100	1	01/26/2019 16:14	<a href="#">WG1228813</a>
Manganese	6590		0.250	5.00	1	01/26/2019 16:14	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1480		31.6	100	1	01/27/2019 22:32	<a href="#">WG1229109</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/27/2019 22:32	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	2470		0.287	0.678	1	01/28/2019 14:20	<a href="#">WG1228571</a>
Ethane	44.8		0.296	1.29	1	01/28/2019 14:20	<a href="#">WG1228571</a>
Ethene	U		0.422	1.27	1	01/28/2019 14:20	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Carbon disulfide	U		0.101	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Chloroethane	U		0.141	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Chloroform	U		0.0860	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Chloromethane	U		0.153	1.25	1	01/25/2019 22:12	<a href="#">WG1228529</a>
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Dibromomethane	U		0.117	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,1-Dichloroethene	14.1		0.188	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
cis-1,2-Dichloroethene	2050		9.33	50.0	100	01/28/2019 19:36	<a href="#">WG1229442</a>
trans-1,2-Dichloroethene	11.5		0.152	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	25.7	500	100	01/28/2019 19:36	<a href="#">WG1229442</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Ethylbenzene	U		0.158	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
2-Hexanone	U		0.757	5.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
n-Hexane	U		0.305	5.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Iodomethane	U		0.377	10.0	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Methylene Chloride	U		1.07	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Naphthalene	U		0.174	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Styrene	U		0.117	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Tetrachloroethene	1720		19.9	50.0	100	01/28/2019 19:36	<a href="#">WG1229442</a>
Toluene	U		0.412	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Trichloroethene	723		15.3	50.0	100	01/28/2019 19:36	<a href="#">WG1229442</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Vinyl chloride	U		11.8	50.0	100	01/28/2019 19:36	<a href="#">WG1229442</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
(S) Toluene-d8	97.8			80.0-120		01/25/2019 22:12	<a href="#">WG1228529</a>
(S) Toluene-d8	106			80.0-120		01/28/2019 19:36	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	91.3			75.0-120		01/25/2019 22:12	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	98.7			75.0-120		01/28/2019 19:36	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	101			80.0-120		01/25/2019 22:12	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	101			80.0-120		01/28/2019 19:36	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	93.9			77.0-126		01/25/2019 22:12	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	92.8			77.0-126		01/28/2019 19:36	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	206000		2710	20000	1	01/28/2019 14:14	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-05 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	22400		51.9	1000	1	01/25/2019 17:44	<a href="#">WG1228307</a>
Nitrate	1980		22.7	100	1	01/25/2019 17:44	<a href="#">WG1228307</a>
Sulfate	73600		77.4	5000	1	01/25/2019 17:44	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1780	<u>B</u>	102	1000	1	01/28/2019 14:56	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3680		15.0	100	1	01/26/2019 15:17	<a href="#">WG1228813</a>
Manganese	387		0.250	5.00	1	01/26/2019 15:17	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	105		31.6	100	1	01/27/2019 22:54	<a href="#">WG1229109</a>
(S) <i>a,a,a</i> -Trifluorotoluene(FID)	103			78.0-120		01/27/2019 22:54	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	235		0.287	0.678	1	01/28/2019 14:23	<a href="#">WG1228571</a>
Ethane	2.71		0.296	1.29	1	01/28/2019 14:23	<a href="#">WG1228571</a>
Ethene	U		0.422	1.27	1	01/28/2019 14:23	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	<u>JO</u>	1.05	25.0	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Carbon disulfide	U		0.101	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/24/19 12:30

L1064133

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Chloroethane	U		0.141	2.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Chloroform	U		0.0860	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Chloromethane	U		0.153	1.25	1	01/25/2019 22:31	<a href="#">WG1228529</a>
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Dibromomethane	U		0.117	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,1-Dichloroethane	1.61		0.114	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,1-Dichloroethene	0.883		0.188	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
cis-1,2-Dichloroethene	60.5		0.0933	0.500	1	01/28/2019 18:55	<a href="#">WG1229442</a>
trans-1,2-Dichloroethene	0.194	<u>J</u>	0.152	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2-Dichloropropane	0.756		0.190	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	01/28/2019 18:55	<a href="#">WG1229442</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Ethylbenzene	U		0.158	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
2-Hexanone	U		0.757	5.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
n-Hexane	U		0.305	5.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Iodomethane	U		0.377	10.0	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Methylene Chloride	U		1.07	2.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Naphthalene	U		0.174	2.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Styrene	U		0.117	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,1,2-Trichlorotrifluoroethane	0.394	<u>J</u>	0.164	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Tetrachloroethene	125		0.199	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Toluene	U		0.412	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,1,1-Trichloroethane	0.255	<u>J</u>	0.0940	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Trichloroethene	34.3		0.153	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,2,3-Trimethylbenzene	U	<u>JO J4</u>	0.0739	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 22:31	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Vinyl chloride	1.64		0.118	0.500	1	01/28/2019 18:55	<a href="#">WG1229442</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
(S) Toluene-d8	100			80.0-120		01/25/2019 22:31	<a href="#">WG1228529</a>
(S) Toluene-d8	107			80.0-120		01/28/2019 18:55	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	92.3			75.0-120		01/25/2019 22:31	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	100			75.0-120		01/28/2019 18:55	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 22:31	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	99.3			80.0-120		01/28/2019 18:55	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	95.1			77.0-126		01/25/2019 22:31	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	91.7			77.0-126		01/28/2019 18:55	<a href="#">WG1229442</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/24/19 00:00

L1064133

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/27/2019 21:01	<a href="#">WG1229109</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/27/2019 21:01	<a href="#">WG1229109</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Carbon disulfide	U		0.101	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chlorobenzene	U		0.140	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chloroethane	U		0.141	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chloroform	U		0.0860	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chloromethane	U		0.153	1.25	1	01/25/2019 17:39	<a href="#">WG1228529</a>
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Dibromomethane	U		0.117	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
trans-1,4-Dichloro-2-butene	U	<u>JO</u>	0.257	5.00	1	01/28/2019 17:52	<a href="#">WG1229442</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Ethylbenzene	U		0.158	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
2-Hexanone	U		0.757	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
n-Hexane	U		0.305	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Iodomethane	U		0.377	10.0	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Naphthalene	U		0.174	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Styrene	U		0.117	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Tetrachloroethene	U		0.199	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Toluene	0.561		0.412	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Trichloroethene	U		0.153	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,3-Trimethylbenzene	U	<a href="#">JO J4</a>	0.0739	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Vinyl acetate	U		0.645	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Vinyl chloride	U		0.118	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
(S) Toluene-d8	99.5			80.0-120		01/25/2019 17:39	<a href="#">WG1228529</a>
(S) Toluene-d8	105			80.0-120		01/28/2019 17:52	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	91.2			75.0-120		01/25/2019 17:39	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	100			75.0-120		01/28/2019 17:52	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 17:39	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	99.6			80.0-120		01/28/2019 17:52	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	93.3			77.0-126		01/25/2019 17:39	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	91.3			77.0-126		01/28/2019 17:52	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3379185-1 01/28/19 13:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3070	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1064133-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064133-01 01/28/19 13:30 • (DUP) R3379185-3 01/28/19 13:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	162000	166000	1	2.73		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

L1063603-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1063603-03 01/28/19 17:06 • (DUP) R3379185-6 01/28/19 17:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	66400	61700	1	7.42		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3379185-4 01/28/19 14:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	100000	100	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Method Blank (MB)

(MB) R3378701-1 01/25/19 12:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1064152-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1064152-03 01/25/19 13:53 • (DUP) R3378701-3 01/25/19 14:04

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	1230000	1230000	1	0.358	E	15
Nitrate	95.4	102	1	6.29		15

L1064133-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1064133-05 01/25/19 17:44 • (DUP) R3378701-6 01/25/19 17:55

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	22400	22500	1	0.514		15
Nitrate	1980	1980	1	0.217		15
Sulfate	73600	74100	1	0.641		15

L1064152-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1064152-03 01/25/19 20:49 • (DUP) R3378701-8 01/25/19 21:00

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Sulfate	370000	369000	10	0.217		15

Laboratory Control Sample (LCS)

(LCS) R3378701-2 01/25/19 12:11

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	40300	101	80.0-120	
Nitrate	8000	8200	102	80.0-120	
Sulfate	40000	40700	102	80.0-120	



[L1064133-01,02,03,04,05](#)

L1064032-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064032-02 01/25/19 16:28 • (MS) R3378701-4 01/25/19 16:39 • (MSD) R3378701-5 01/25/19 16:50

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50000	74.0	51900	52000	104	104	1	80.0-120			0.151	15
Nitrate	5000	29.1	5170	5180	103	103	1	80.0-120			0.267	15
Sulfate	50000	156	51900	52100	103	104	1	80.0-120			0.305	15

L1064133-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1064133-05 01/25/19 17:44 • (MS) R3378701-7 01/25/19 18:06

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50000	22400	73500	102	1	80.0-120	
Nitrate	5000	1980	7140	103	1	80.0-120	
Sulfate	50000	73600	122000	97.2	1	80.0-120	E

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3379231-1 01/28/19 12:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	222	↓	102	1000

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

L1063581-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1063581-08 01/28/19 16:27 • (DUP) R3379231-3 01/28/19 16:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	5200	5260	1	1.13		20

L1064289-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1064289-02 01/28/19 20:02 • (DUP) R3379231-6 01/28/19 20:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	4820	4810	1	0.332		20

Laboratory Control Sample (LCS)

(LCS) R3379231-2 01/28/19 13:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	79200	106	85.0-115	

L1063697-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063697-09 01/28/19 17:50 • (MS) R3379231-4 01/28/19 18:08 • (MSD) R3379231-5 01/28/19 18:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	555	56500	56900	112	113	1	80.0-120			0.653	20

L1064289-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064289-03 01/28/19 20:30 • (MS) R3379231-7 01/28/19 20:48 • (MSD) R3379231-8 01/28/19 21:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	4890	59500	59600	109	110	1	80.0-120			0.235	20



Method Blank (MB)

(MB) R3378904-1 01/26/19 15:04

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Iron	22.2	J	15.0	100
Manganese	U		0.250	5.00

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3378904-2 01/26/19 15:08 • (LCSD) R3378904-3 01/26/19 15:13

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Iron	5000	5070	5050	101	101	80.0-120			0.426	20
Manganese	50.0	50.5	50.1	101	100	80.0-120			0.665	20

5 Sr

6 Qc

L1064133-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064133-05 01/26/19 15:17 • (MS) R3378904-5 01/26/19 15:27 • (MSD) R3378904-6 01/26/19 15:31

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	%	%		%			%	%
Iron	5000	3680	9040	9140	107	109	1	75.0-125			1.13	20
Manganese	50.0	387	436	437	97.0	101	1	75.0-125			0.421	20

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3379072-5 01/27/19 20:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379072-3 01/27/19 19:15 • (LCSD) R3379072-4 01/27/19 19:37

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5430	5530	98.7	101	70.0-124			1.83	20
(S) a,a,a-Trifluorotoluene(FID)				105	105	78.0-120				

L1064217-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064217-04 01/28/19 02:38 • (MS) R3379072-8 01/28/19 03:45 • (MSD) R3379072-9 01/28/19 04:07

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	1990	3960	4140	35.8	39.0	1	10.0-155			4.37	21
(S) a,a,a-Trifluorotoluene(FID)					95.7	96.4		78.0-120				



Method Blank (MB)

(MB) R3379181-1 01/28/19 13:09

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1064106-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064106-01 01/28/19 13:12 • (DUP) R3379181-2 01/28/19 14:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

L1064105-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064105-01 01/28/19 14:28 • (DUP) R3379181-3 01/28/19 14:38

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	ND	0.000	1	0.000		20
Ethane	ND	0.000	1	0.000		20
Ethene	ND	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379181-4 01/28/19 14:40 • (LCSD) R3379181-5 01/28/19 14:44

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	75.5	74.6	111	110	85.0-115			1.24	20
Ethane	129	114	115	88.3	89.2	85.0-115			1.07	20
Ethene	127	115	112	90.4	87.9	85.0-115			2.76	20



Method Blank (MB)

(MB) R3379237-5 01/25/19 15:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromodichloromethane	U		0.0800	0.500
Bromochloromethane	U		0.145	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon disulfide	U		0.101	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
1,1-Dichloropropene	U		0.128	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
1,3-Dichloropropane	U		0.147	1.00
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
2,2-Dichloropropane	U		0.0929	0.500
cis-1,3-Dichloropropene	U		0.0976	0.500
trans-1,3-Dichloropropene	U		0.222	0.500
Di-isopropyl ether	U		0.0924	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3379237-5 01/25/19 15:20

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
n-Hexane	U		0.305	5.00
Ethylbenzene	U		0.158	0.500
Iodomethane	U		0.377	10.0
Isopropylbenzene	U		0.126	0.500
2-Hexanone	U		0.757	5.00
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
n-Propylbenzene	U		0.162	0.500
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
1,1,1,2-Tetrachloroethane	U		0.120	0.500
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	0.228	U	0.174	2.50
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
Styrene	U		0.117	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,2,3-Trichloropropane	U		0.247	2.50
1,2,4-Trimethylbenzene	U		0.123	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Vinyl acetate	U		0.645	5.00
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trimethylbenzene	U		0.0739	0.500
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	100			80.0-120
(S) Dibromofluoromethane	90.4			75.0-120
(S) a,a,a-Trifluorotoluene	103			80.0-120
(S) 4-Bromofluorobenzene	94.3			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379237-1 01/25/19 13:43 • (LCSD) R3379237-2 01/25/19 14:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromobenzene	25.0	23.7	23.3	94.6	93.4	73.0-121			1.35	20
Bromochloromethane	25.0	26.0	25.3	104	101	76.0-122			2.57	20
n-Butylbenzene	25.0	23.8	24.0	95.2	96.2	73.0-125			0.994	20
sec-Butylbenzene	25.0	24.8	24.5	99.1	98.0	75.0-125			1.16	20
tert-Butylbenzene	25.0	25.5	25.0	102	100	76.0-124			1.90	20
Acrylonitrile	125	116	110	92.9	88.1	55.0-149			5.36	20
Benzene	25.0	24.2	23.7	96.8	94.6	70.0-123			2.26	20
2-Chlorotoluene	25.0	24.2	24.0	96.9	96.0	76.0-123			0.979	20
4-Chlorotoluene	25.0	24.7	24.4	98.9	97.8	75.0-122			1.15	20
Bromodichloromethane	25.0	25.9	25.1	104	100	75.0-120			3.09	20
Acetone	125	133	129	106	103	19.0-160			3.21	27
Bromoform	25.0	21.7	21.7	86.8	86.7	68.0-132			0.111	20
Bromomethane	25.0	27.0	26.1	108	104	10.0-160			3.68	25
Dibromomethane	25.0	26.0	24.8	104	99.0	80.0-120			4.81	20
Carbon tetrachloride	25.0	24.9	23.9	99.5	95.8	68.0-126			3.82	20
Chlorobenzene	25.0	26.8	25.7	107	103	80.0-121			4.22	20
Chlorodibromomethane	25.0	26.2	25.7	105	103	77.0-125			2.10	20
n-Hexane	25.0	25.0	24.6	100	98.6	57.0-133			1.47	20
Chloroethane	25.0	25.4	24.5	102	97.8	47.0-150			3.88	20
1,1-Dichloropropene	25.0	24.2	23.5	96.7	93.9	74.0-126			3.00	20
Carbon disulfide	25.0	24.5	23.7	97.9	94.9	61.0-128			3.10	20
Chloroform	25.0	24.8	23.9	99.0	95.5	73.0-120			3.61	20
1,3-Dichloropropane	25.0	26.2	25.0	105	100	80.0-120			4.54	20
Chloromethane	25.0	26.7	25.6	107	102	41.0-142			4.47	20
2,2-Dichloropropane	25.0	27.4	25.4	110	102	58.0-130			7.51	20
1,2-Dichlorobenzene	25.0	24.7	24.4	98.9	97.4	79.0-121			1.47	20
1,3-Dichlorobenzene	25.0	24.6	24.8	98.3	99.1	79.0-120			0.851	20
Hexachloro-1,3-butadiene	25.0	24.1	25.3	96.4	101	54.0-138			4.90	20
1,4-Dichlorobenzene	25.0	23.4	23.6	93.7	94.3	79.0-120			0.703	20
1,2-Dibromo-3-Chloropropane	25.0	21.0	20.7	83.9	82.7	58.0-134			1.42	20
1,2-Dibromoethane	25.0	26.5	25.8	106	103	80.0-122			2.84	20
Dichlorodifluoromethane	25.0	35.0	34.0	140	136	51.0-149			2.95	20
Iodomethane	125	132	126	105	101	33.0-147			4.15	26
Isopropylbenzene	25.0	25.6	25.2	102	101	76.0-127			1.47	20
1,1-Dichloroethane	25.0	25.2	24.3	101	97.1	70.0-126			3.82	20
p-Isopropyltoluene	25.0	25.8	25.6	103	102	76.0-125			1.01	20
1,2-Dichloroethane	25.0	24.8	24.1	99.3	96.3	70.0-128			3.11	20
1,1-Dichloroethene	25.0	25.7	25.1	103	101	71.0-124			2.27	20
trans-1,2-Dichloroethene	25.0	26.0	25.0	104	99.9	73.0-120			3.89	20
1,2-Dichloropropane	25.0	25.9	24.9	104	99.6	77.0-125			3.98	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379237-1 01/25/19 13:43 • (LCSD) R3379237-2 01/25/19 14:02

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
n-Propylbenzene	25.0	24.7	24.3	98.8	97.4	77.0-124			1.43	20
1,1,1,2-Tetrachloroethane	25.0	27.8	27.3	111	109	75.0-125			1.63	20
cis-1,3-Dichloropropene	25.0	25.9	25.3	104	101	80.0-123			2.46	20
cis-1,2-Dichloroethene	25.0	25.2	24.8	101	99.1	73.0-120			1.82	20
trans-1,3-Dichloropropene	25.0	26.1	25.6	104	102	78.0-124			1.89	20
1,2,3-Trichlorobenzene	25.0	23.3	23.9	93.3	95.5	50.0-138			2.28	20
Ethylbenzene	25.0	26.9	26.4	108	106	79.0-123			1.89	20
1,2,4-Trichlorobenzene	25.0	24.2	25.1	96.9	101	57.0-137			3.67	20
Di-isopropyl ether	25.0	24.6	23.4	98.3	93.4	58.0-138			5.02	20
1,2,3-Trichloropropane	25.0	23.9	23.0	95.8	92.0	73.0-130			4.05	20
1,2,4-Trimethylbenzene	25.0	24.8	25.0	99.4	99.9	76.0-121			0.490	20
1,3,5-Trimethylbenzene	25.0	25.0	24.8	100	99.0	76.0-122			0.990	20
2-Hexanone	125	131	126	105	101	67.0-149			3.87	20
Methylene Chloride	25.0	24.0	23.5	96.1	94.0	67.0-120			2.21	20
Vinyl acetate	125	114	108	90.9	86.7	11.0-160			4.73	20
2-Butanone (MEK)	125	116	109	93.2	87.4	44.0-160			6.44	20
4-Methyl-2-pentanone (MIBK)	125	121	116	97.0	93.2	68.0-142			4.03	20
Methyl tert-butyl ether	25.0	25.5	24.5	102	98.0	68.0-125			4.13	20
1,1,2,2-Tetrachloroethane	25.0	23.2	23.0	92.8	92.0	65.0-130			0.876	20
Naphthalene	25.0	20.7	21.6	82.8	86.5	54.0-135			4.42	20
Tetrachloroethene	25.0	27.3	26.6	109	107	72.0-132			2.34	20
Toluene	25.0	25.2	25.2	101	101	79.0-120			0.0604	20
Styrene	25.0	25.1	24.8	100	99.3	73.0-130			1.15	20
1,1,1-Trichloroethane	25.0	26.0	25.5	104	102	73.0-124			1.93	20
1,1,2-Trichloroethane	25.0	26.0	25.3	104	101	80.0-120			2.58	20
Trichloroethene	25.0	26.5	25.7	106	103	78.0-124			3.13	20
1,1,2-Trichlorotrifluoroethane	25.0	25.9	25.3	104	101	69.0-132			2.23	20
Trichlorofluoromethane	25.0	27.6	26.7	110	107	59.0-147			3.31	20
Vinyl chloride	25.0	26.7	25.7	107	103	67.0-131			3.81	20
1,2,3-Trimethylbenzene	25.0	19.0	18.7	76.0	74.8	77.0-120	J4	J4	1.59	20
Xylenes, Total	75.0	81.6	81.3	109	108	79.0-123			0.368	20
(S) Toluene-d8				100	98.7	80.0-120				
(S) Dibromofluoromethane				94.4	93.2	75.0-120				
(S) a,a,a-Trifluorotoluene				102	98.6	80.0-120				
(S) 4-Bromofluorobenzene				93.0	95.7	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3379257-3 01/28/19 16:04

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
Tetrachloroethene	U		0.199	0.500
Trichloroethene	U		0.153	0.500
Vinyl chloride	U		0.118	0.500
(S) Toluene-d8	108			80.0-120
(S) Dibromofluoromethane	96.7			75.0-120
(S) a,a,a-Trifluorotoluene	99.4			80.0-120
(S) 4-Bromofluorobenzene	91.2			77.0-126

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379257-1 01/28/19 15:02 • (LCSD) R3379257-2 01/28/19 15:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
trans-1,4-Dichloro-2-butene	25.0	17.1	17.5	68.4	69.9	33.0-144			2.11	20
cis-1,2-Dichloroethene	25.0	21.7	21.1	86.6	84.6	73.0-120			2.40	20
Tetrachloroethene	25.0	24.8	23.4	99.4	93.4	72.0-132			6.20	20
Trichloroethene	25.0	23.5	22.4	93.9	89.7	78.0-124			4.58	20
Vinyl chloride	25.0	22.8	22.0	91.4	87.9	67.0-131			3.82	20
(S) Toluene-d8				106	105	80.0-120				
(S) Dibromofluoromethane				94.2	96.6	75.0-120				
(S) a,a,a-Trifluorotoluene				102	101	80.0-120				
(S) 4-Bromofluorobenzene				89.4	88.5	77.0-126				

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
B	The same analyte is found in the associated blank.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
J4	The associated batch QC was outside the established quality control range for accuracy.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

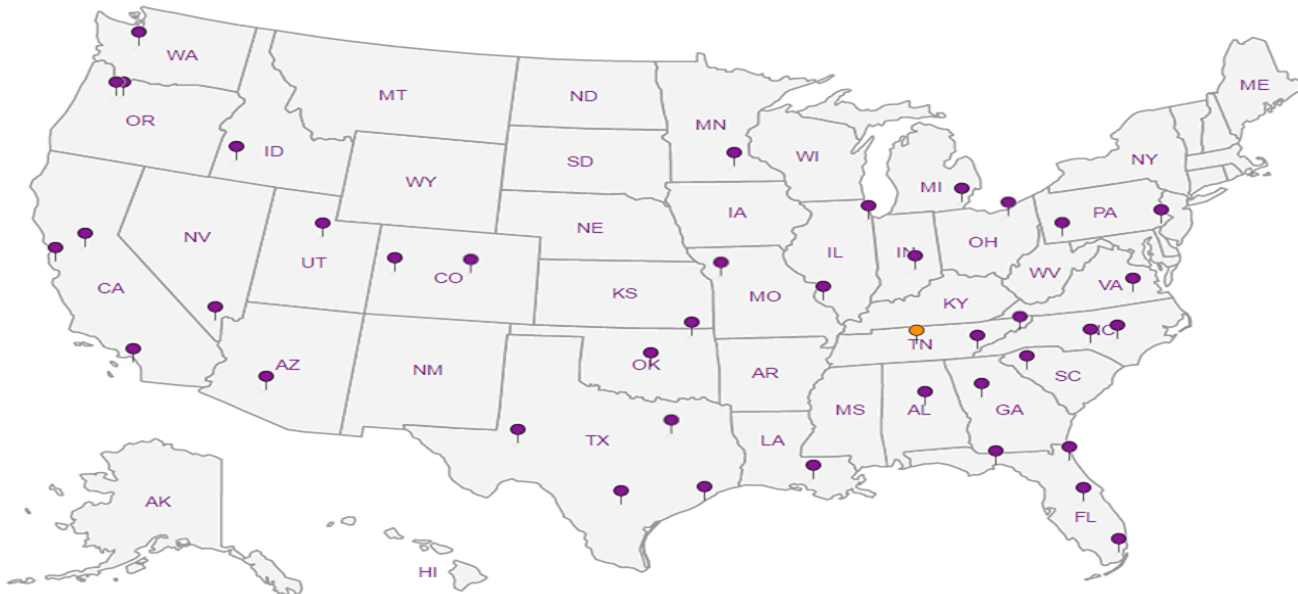
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc. - WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:  
Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
Brian O'Neal/Bill Haldeman

Email To: boneal@pesenv.com;  
bhaldeman@pesenv.com;

Project Description: American Linen

City/State Collected:

Phone: 206-529-3980  
Fax: 206-529-3985

Client Project #  
1413.001.05.601

Lab Project #  
PESENVSWA-ALP

Collected by (print):  
Ben Hecht

Site/Facility ID #  
American Linen

P.O. #

Collected by (signature):  
*[Signature]*

Rush? (Lab MUST Be Notified)  
Same Day \_\_\_\_\_ Five Day \_\_\_\_\_  
Next Day  5 Day (Rad Only)  
Two Day \_\_\_\_\_ 10 Day (Rad Only) \_\_\_\_\_  
Three Day \_\_\_\_\_

Quote #  
Date Results Needed

Immediately Packed on Ice N  Y

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page \_\_\_ of \_\_\_

**Pace Analytical\***  
National Center for Testing & Innovation

12068 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5459

L# **4064133**  
B158

Account: **PESENVSWA**  
Template: **T143845**  
Prelogin: **P685358**  
TSR: **110 | Brian Ford**  
PB: **12 | 13 | 18 | MW**

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	*NO3,SO4,Cl* 125mlHDPE-NoPres	Alkalinity 125mlHDPE-NoPres	EEM (RSK175LL) 40mlAmb-HCl	NWTPHGX 40mlAmb HCl	TOC 250mlAmb-HCl	Total Fe Mn 6020 250mlHDPE-HNO3	VOCs (8260LIC) 40mlAmb-HCl						
MW102-012419	Grab	GW	120	01/24/19	1010	12	X	X	X	X	X	X	X						
MW-158A-012419	Grab	GW	95	01/24/19	1245	12	X	X	X	X	X	X	X						
MW-157-012419	Grab	GW	65	01/24/19	1415	12	X	X	X	X	X	X	X						
MW-156-012419	Grab	GW	44	01/24/19	1415	12	X	X	X	X	X	X	X						
MW120-012419	Grab	GW	45	01/24/19	1230	12	X	X	X	X	X	X	X						
Tap Blank-012419																			

\* Matrix:  
SS - Soil AIR - Air F - Filter  
GW - Groundwater B - Bioassay  
WW - WasteWater  
DW - Drinking Water  
OT - Other

Remarks:  
pH \_\_\_\_\_ Temp \_\_\_\_\_  
Flow \_\_\_\_\_ Other \_\_\_\_\_  
Samples returned via:  
UPS \_\_\_\_\_ FedEx \_\_\_\_\_ Courier \_\_\_\_\_  
Tracking # **4757 5076 9542**

**Sample Receipt Checklist**

COC Seal Present/Intact:  Y  N  
COC Signed/Accurate:  Y  N  
Bottles arrive intact:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
If Applicable  
VOA Zero Headspace:  Y  N  
Preservation Correct/Checked:  Y  N  
**RAD SCREEN: <0.5 mR/hr**

Relinquished by: (Signature) <i>[Signature]</i>	Date: 1-24-19	Time: 16:15	Received by: (Signature)	Trip Blank Received: (Yes/No) <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No HCL / MeqH TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 09:10.82 Bottles Received: 60
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 1/25/19 Time: 900 Hold: Condition: NCF / <input checked="" type="checkbox"/>



January 29, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1064711  
Samples Received: 01/28/2019  
Project Number: 1413.001.05.305  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Jason Romer  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# SAMPLE SUMMARY



## MW-160-012519 L1064711-01 GW

Collected by  
Ben Hecht  
Collected date/time  
01/25/19 10:15  
Received date/time  
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 14:32	01/28/19 14:32	GB
Wet Chemistry by Method 9056A	WG1229560	1	01/29/19 11:30	01/29/19 11:30	ELN
Wet Chemistry by Method 9060A	WG1229541	1	01/29/19 10:10	01/29/19 10:10	EEM
Metals (ICPMS) by Method 6020B	WG1229218	1	01/28/19 17:21	01/28/19 22:31	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229391	1	01/28/19 15:43	01/28/19 15:43	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1229545	1	01/29/19 11:20	01/29/19 11:20	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229314	1	01/28/19 15:44	01/28/19 15:44	JBE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229419	1	01/28/19 17:00	01/28/19 17:00	JBE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229488	1	01/29/19 01:19	01/29/19 01:19	JHH

1  
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## R-MW6-012519 L1064711-02 GW

Collected by  
Ben Hecht  
Collected date/time  
01/25/19 10:30  
Received date/time  
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC) by Method RSK175	WG1229545	1	01/29/19 11:23	01/29/19 11:23	MEL
Volatile Organic Compounds (GC) by Method RSK175	WG1229545	10	01/29/19 14:16	01/29/19 14:16	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229314	1	01/28/19 16:04	01/28/19 16:04	JBE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229419	1	01/28/19 17:19	01/28/19 17:19	JBE

## W-MW-02-012519 L1064711-03 GW

Collected by  
Ben Hecht  
Collected date/time  
01/25/19 11:45  
Received date/time  
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 14:45	01/28/19 14:45	GB
Wet Chemistry by Method 9056A	WG1229560	1	01/29/19 11:41	01/29/19 11:41	ELN
Wet Chemistry by Method 9060A	WG1229248	5	01/28/19 23:04	01/28/19 23:04	EEM
Metals (ICPMS) by Method 6020B	WG1229218	1	01/28/19 17:21	01/28/19 22:36	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229391	1	01/28/19 16:05	01/28/19 16:05	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1229545	1	01/29/19 11:29	01/29/19 11:29	MEL
Volatile Organic Compounds (GC) by Method RSK175	WG1229545	10	01/29/19 14:20	01/29/19 14:20	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229314	1	01/28/19 16:24	01/28/19 16:24	JBE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229419	1	01/28/19 17:39	01/28/19 17:39	JBE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229488	1	01/29/19 01:39	01/29/19 01:39	JHH

## MW-161-012519 L1064711-04 GW

Collected by  
Ben Hecht  
Collected date/time  
01/25/19 12:10  
Received date/time  
01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 14:53	01/28/19 14:53	GB
Wet Chemistry by Method 9056A	WG1229560	1	01/29/19 12:03	01/29/19 12:03	ELN
Wet Chemistry by Method 9060A	WG1229248	1	01/28/19 23:17	01/28/19 23:17	EEM
Metals (ICPMS) by Method 6020B	WG1229218	1	01/28/19 17:21	01/28/19 22:40	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229391	1	01/28/19 16:27	01/28/19 16:27	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1229545	1	01/29/19 11:34	01/29/19 11:34	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229314	1	01/28/19 16:44	01/28/19 16:44	JBE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229419	1	01/28/19 17:58	01/28/19 17:58	JBE

# SAMPLE SUMMARY



## W-MW-01-012519 L1064711-05 GW

Collected by: Ben Hecht  
 Collected date/time: 01/25/19 13:55  
 Received date/time: 01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Wet Chemistry by Method 2320 B-2011	WG1228505	1	01/28/19 15:01	01/28/19 15:01	GB
Wet Chemistry by Method 9056A	WG1229560	1	01/29/19 12:14	01/29/19 12:14	ELN
Wet Chemistry by Method 9060A	WG1229248	2	01/28/19 23:29	01/28/19 23:29	EEM
Metals (ICPMS) by Method 6020B	WG1229218	1	01/28/19 17:21	01/28/19 22:45	LD
Volatile Organic Compounds (GC) by Method NWTPHGX	WG1229391	1	01/28/19 16:49	01/28/19 16:49	DWR
Volatile Organic Compounds (GC) by Method RSK175	WG1229545	1	01/29/19 11:36	01/29/19 11:36	MEL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229314	1	01/28/19 17:04	01/28/19 17:04	JBE
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229419	1	01/28/19 18:18	01/28/19 18:18	JBE

1  
Cp

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Tc

3  
Ss

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Cn

5  
Sr

## TRIP BLANK-012519 L1064711-06 GW

Collected by: Ben Hecht  
 Collected date/time: 01/25/19 00:00  
 Received date/time: 01/28/19 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229314	1	01/28/19 14:03	01/28/19 14:03	DWR
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1229419	1	01/28/19 16:40	01/28/19 16:40	JBE

6  
Qc

7  
Gl

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Al

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Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	134000		2710	20000	1	01/28/2019 14:32	<a href="#">WG1228505</a>

Sample Narrative:

L1064711-01 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	10700		51.9	1000	1	01/29/2019 11:30	<a href="#">WG1229560</a>
Nitrate	U	T8	22.7	100	1	01/29/2019 11:30	<a href="#">WG1229560</a>
Sulfate	1870	J	77.4	5000	1	01/29/2019 11:30	<a href="#">WG1229560</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	3980		102	1000	1	01/29/2019 10:10	<a href="#">WG1229541</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	59100		15.0	100	1	01/28/2019 22:31	<a href="#">WG1229218</a>
Manganese	1220		0.250	5.00	1	01/28/2019 22:31	<a href="#">WG1229218</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/28/2019 15:43	<a href="#">WG1229391</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		01/28/2019 15:43	<a href="#">WG1229391</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	766		0.287	0.678	1	01/29/2019 11:20	<a href="#">WG1229545</a>
Ethane	11.7		0.296	1.29	1	01/29/2019 11:20	<a href="#">WG1229545</a>
Ethene	U		0.422	1.27	1	01/29/2019 11:20	<a href="#">WG1229545</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Benzene	U		0.0896	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 15:44	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/28/2019 15:44	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 15:44	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 15:44	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 15:44	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 15:44	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 15:44	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 15:44	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 15:44	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 15:44	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 15:44	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 15:44	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 15:44	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 15:44	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 15:44	WG1229314
cis-1,2-Dichloroethene	5.08		0.0933	0.500	1	01/28/2019 15:44	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 15:44	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 15:44	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 15:44	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 15:44	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 15:44	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 15:44	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 15:44	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 15:44	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 15:44	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 15:44	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 15:44	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 15:44	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 15:44	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 15:44	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 15:44	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 15:44	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 15:44	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 15:44	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 15:44	WG1229314
Naphthalene	U		0.174	2.50	1	01/29/2019 01:19	WG1229488
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 15:44	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 15:44	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 15:44	WG1229314
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	01/28/2019 15:44	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 15:44	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 15:44	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 15:44	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 15:44	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 15:44	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 15:44	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 15:44	WG1229314
Trichloroethene	0.263	J	0.153	0.500	1	01/28/2019 15:44	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 15:44	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 15:44	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 15:44	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 15:44	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 15:44	WG1229314

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	01/28/2019 17:00	<a href="#">WG1229419</a>
Vinyl chloride	U		0.118	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 15:44	<a href="#">WG1229314</a>
(S) Toluene-d8	106			80.0-120		01/28/2019 15:44	<a href="#">WG1229314</a>
(S) Toluene-d8	114			80.0-120		01/28/2019 17:00	<a href="#">WG1229419</a>
(S) Toluene-d8	106			80.0-120		01/29/2019 01:19	<a href="#">WG1229488</a>
(S) Dibromofluoromethane	98.4			75.0-120		01/28/2019 15:44	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	102			75.0-120		01/28/2019 17:00	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	97.7			75.0-120		01/29/2019 01:19	<a href="#">WG1229488</a>
(S) a,a,a-Trifluorotoluene	106			80.0-120		01/28/2019 15:44	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/28/2019 17:00	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	106			80.0-120		01/29/2019 01:19	<a href="#">WG1229488</a>
(S) 4-Bromofluorobenzene	89.1			77.0-126		01/28/2019 15:44	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	105			77.0-126		01/28/2019 17:00	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	88.9			77.0-126		01/29/2019 01:19	<a href="#">WG1229488</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	7640		2.87	6.78	10	01/29/2019 14:16	<a href="#">WG1229545</a>
Ethane	25.4		0.296	1.29	1	01/29/2019 11:23	<a href="#">WG1229545</a>
Ethene	8.27		0.422	1.27	1	01/29/2019 11:23	<a href="#">WG1229545</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Benzene	0.142	J	0.0896	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chlorobenzene	U		0.140	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chloroethane	U		0.141	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chloroform	U		0.0860	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chloromethane	U		0.153	1.25	1	01/28/2019 16:04	<a href="#">WG1229314</a>
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Dibromomethane	U		0.117	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1-Dichloroethene	0.310	J	0.188	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
cis-1,2-Dichloroethene	12.5		0.0933	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Ethylbenzene	U		0.158	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
2-Hexanone	U		0.757	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
n-Hexane	U		0.305	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Iodomethane	U		0.377	10.0	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Naphthalene	U		0.174	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Styrene	U		0.117	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,2,2-Tetrachloroethane	U	<u>JO</u>	0.130	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Tetrachloroethene	0.328	<u>J</u>	0.199	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Toluene	U		0.412	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Trichloroethene	1.07		0.153	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	01/28/2019 17:19	<a href="#">WG1229419</a>
Vinyl chloride	9.14		0.118	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
(S) Toluene-d8	104			80.0-120		01/28/2019 16:04	<a href="#">WG1229314</a>
(S) Toluene-d8	113			80.0-120		01/28/2019 17:19	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	99.7			75.0-120		01/28/2019 16:04	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	101			75.0-120		01/28/2019 17:19	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/28/2019 16:04	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	107			80.0-120		01/28/2019 17:19	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	87.0			77.0-126		01/28/2019 16:04	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	106			77.0-126		01/28/2019 17:19	<a href="#">WG1229419</a>

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	876000		2710	20000	1	01/28/2019 14:45	<a href="#">WG1228505</a>

Sample Narrative:

L1064711-03 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	91000		51.9	1000	1	01/29/2019 11:41	<a href="#">WG1229560</a>
Nitrate	66.5	J T8	22.7	100	1	01/29/2019 11:41	<a href="#">WG1229560</a>
Sulfate	U		77.4	5000	1	01/29/2019 11:41	<a href="#">WG1229560</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	33700		510	5000	5	01/28/2019 23:04	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	20800		15.0	100	1	01/28/2019 22:36	<a href="#">WG1229218</a>
Manganese	3710		0.250	5.00	1	01/28/2019 22:36	<a href="#">WG1229218</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	37.4	J	31.6	100	1	01/28/2019 16:05	<a href="#">WG1229391</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/28/2019 16:05	<a href="#">WG1229391</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	11300		2.87	6.78	10	01/29/2019 14:20	<a href="#">WG1229545</a>
Ethane	0.670	J	0.296	1.29	1	01/29/2019 11:29	<a href="#">WG1229545</a>
Ethene	U		0.422	1.27	1	01/29/2019 11:29	<a href="#">WG1229545</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Benzene	0.133	J	0.0896	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 16:24	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/28/2019 16:24	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 16:24	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 16:24	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 16:24	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 16:24	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 16:24	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 16:24	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 16:24	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 16:24	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 16:24	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 16:24	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 16:24	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 16:24	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 16:24	WG1229314
cis-1,2-Dichloroethene	1.83		0.0933	0.500	1	01/28/2019 16:24	WG1229314
trans-1,2-Dichloroethene	0.263	<u>I</u>	0.152	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 16:24	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 16:24	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 16:24	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 16:24	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 16:24	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 16:24	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 16:24	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 16:24	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 16:24	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 16:24	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 16:24	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 16:24	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 16:24	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 16:24	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 16:24	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 16:24	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 16:24	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 16:24	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 16:24	WG1229314
Naphthalene	U		0.174	2.50	1	01/29/2019 01:39	WG1229488
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 16:24	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 16:24	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 16:24	WG1229314
1,1,2,2-Tetrachloroethane	U	<u>JO</u>	0.130	0.500	1	01/28/2019 16:24	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 16:24	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 16:24	WG1229314
Toluene	2.09		0.412	0.500	1	01/28/2019 16:24	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 16:24	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 16:24	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 16:24	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 16:24	WG1229314
Trichloroethene	U		0.153	0.500	1	01/28/2019 16:24	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 16:24	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 16:24	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 16:24	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 16:24	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 16:24	WG1229314

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/28/2019 17:39	<a href="#">WG1229419</a>
Vinyl chloride	2.01		0.118	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 16:24	<a href="#">WG1229314</a>
(S) Toluene-d8	110			80.0-120		01/28/2019 16:24	<a href="#">WG1229314</a>
(S) Toluene-d8	111			80.0-120		01/28/2019 17:39	<a href="#">WG1229419</a>
(S) Toluene-d8	107			80.0-120		01/29/2019 01:39	<a href="#">WG1229488</a>
(S) Dibromofluoromethane	98.4			75.0-120		01/28/2019 16:24	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	99.5			75.0-120		01/28/2019 17:39	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	99.7			75.0-120		01/29/2019 01:39	<a href="#">WG1229488</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/28/2019 16:24	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	109			80.0-120		01/28/2019 17:39	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	106			80.0-120		01/29/2019 01:39	<a href="#">WG1229488</a>
(S) 4-Bromofluorobenzene	87.3			77.0-126		01/28/2019 16:24	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	104			77.0-126		01/28/2019 17:39	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	85.3			77.0-126		01/29/2019 01:39	<a href="#">WG1229488</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	282000		2710	20000	1	01/28/2019 14:53	<a href="#">WG1228505</a>

Sample Narrative:

L1064711-04 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	25500		51.9	1000	1	01/29/2019 12:03	<a href="#">WG1229560</a>
Nitrate	U	T8	22.7	100	1	01/29/2019 12:03	<a href="#">WG1229560</a>
Sulfate	13400		77.4	5000	1	01/29/2019 12:03	<a href="#">WG1229560</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4520		102	1000	1	01/28/2019 23:17	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7340		15.0	100	1	01/28/2019 22:40	<a href="#">WG1229218</a>
Manganese	784		0.250	5.00	1	01/28/2019 22:40	<a href="#">WG1229218</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/28/2019 16:27	<a href="#">WG1229391</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		01/28/2019 16:27	<a href="#">WG1229391</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	69.0		0.287	0.678	1	01/29/2019 11:34	<a href="#">WG1229545</a>
Ethane	U		0.296	1.29	1	01/29/2019 11:34	<a href="#">WG1229545</a>
Ethene	U		0.422	1.27	1	01/29/2019 11:34	<a href="#">WG1229545</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Benzene	U		0.0896	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 16:44	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/28/2019 16:44	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 16:44	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 16:44	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 16:44	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 16:44	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 16:44	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 16:44	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 16:44	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 16:44	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 16:44	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 16:44	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 16:44	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 16:44	WG1229314
1,1-Dichloroethene	0.489	U	0.188	0.500	1	01/28/2019 16:44	WG1229314
cis-1,2-Dichloroethene	1.26		0.0933	0.500	1	01/28/2019 16:44	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 16:44	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 16:44	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 16:44	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 16:44	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 16:44	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 16:44	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 16:44	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 16:44	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 16:44	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 16:44	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 16:44	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 16:44	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 16:44	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 16:44	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 16:44	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 16:44	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 16:44	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 16:44	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 16:44	WG1229314
Naphthalene	U		0.174	2.50	1	01/28/2019 16:44	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 16:44	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 16:44	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 16:44	WG1229314
1,1,2,2-Tetrachloroethane	U	UO	0.130	0.500	1	01/28/2019 16:44	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 16:44	WG1229314
Tetrachloroethene	0.472	U	0.199	0.500	1	01/28/2019 16:44	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 16:44	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 16:44	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 16:44	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 16:44	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 16:44	WG1229314
Trichloroethene	1.66		0.153	0.500	1	01/28/2019 16:44	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 16:44	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 16:44	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 16:44	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 16:44	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 16:44	WG1229314

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	01/28/2019 17:58	<a href="#">WG1229419</a>
Vinyl chloride	U		0.118	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 16:44	<a href="#">WG1229314</a>
(S) Toluene-d8	106			80.0-120		01/28/2019 16:44	<a href="#">WG1229314</a>
(S) Toluene-d8	111			80.0-120		01/28/2019 17:58	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	98.5			75.0-120		01/28/2019 16:44	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	102			75.0-120		01/28/2019 17:58	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	104			80.0-120		01/28/2019 16:44	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/28/2019 17:58	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	89.0			77.0-126		01/28/2019 16:44	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	104			77.0-126		01/28/2019 17:58	<a href="#">WG1229419</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	235000		2710	20000	1	01/28/2019 15:01	<a href="#">WG1228505</a>

Sample Narrative:

L1064711-05 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	31700		51.9	1000	1	01/29/2019 12:14	<a href="#">WG1229560</a>
Nitrate	U	T8	22.7	100	1	01/29/2019 12:14	<a href="#">WG1229560</a>
Sulfate	56900		77.4	5000	1	01/29/2019 12:14	<a href="#">WG1229560</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7930		204	2000	2	01/28/2019 23:29	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	11100		15.0	100	1	01/28/2019 22:45	<a href="#">WG1229218</a>
Manganese	552		0.250	5.00	1	01/28/2019 22:45	<a href="#">WG1229218</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/28/2019 16:49	<a href="#">WG1229391</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		01/28/2019 16:49	<a href="#">WG1229391</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	291		0.287	0.678	1	01/29/2019 11:36	<a href="#">WG1229545</a>
Ethane	2.43		0.296	1.29	1	01/29/2019 11:36	<a href="#">WG1229545</a>
Ethene	3.41		0.422	1.27	1	01/29/2019 11:36	<a href="#">WG1229545</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Benzene	U		0.0896	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 17:04	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/25/19 13:55

L1064711

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/28/2019 17:04	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 17:04	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 17:04	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 17:04	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 17:04	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 17:04	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 17:04	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 17:04	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 17:04	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 17:04	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 17:04	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 17:04	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 17:04	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 17:04	WG1229314
cis-1,2-Dichloroethene	0.459	<u>U</u>	0.0933	0.500	1	01/28/2019 17:04	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 17:04	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 17:04	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 17:04	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 17:04	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 17:04	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 17:04	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 17:04	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 17:04	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 17:04	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 17:04	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 17:04	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 17:04	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 17:04	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 17:04	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 17:04	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 17:04	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 17:04	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 17:04	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 17:04	WG1229314
Naphthalene	U		0.174	2.50	1	01/28/2019 17:04	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 17:04	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 17:04	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 17:04	WG1229314
1,1,2,2-Tetrachloroethane	U	<u>U</u>	0.130	0.500	1	01/28/2019 17:04	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 17:04	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 17:04	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 17:04	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 17:04	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 17:04	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 17:04	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 17:04	WG1229314
Trichloroethene	0.587		0.153	0.500	1	01/28/2019 17:04	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 17:04	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 17:04	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 17:04	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 17:04	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 17:04	WG1229314

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	01/28/2019 18:18	<a href="#">WG1229419</a>
Vinyl chloride	5.46		0.118	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 17:04	<a href="#">WG1229314</a>
(S) Toluene-d8	107			80.0-120		01/28/2019 17:04	<a href="#">WG1229314</a>
(S) Toluene-d8	113			80.0-120		01/28/2019 18:18	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	98.5			75.0-120		01/28/2019 17:04	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	103			75.0-120		01/28/2019 18:18	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	104			80.0-120		01/28/2019 17:04	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/28/2019 18:18	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	85.2			77.0-126		01/28/2019 17:04	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	105			77.0-126		01/28/2019 18:18	<a href="#">WG1229419</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	6.08	J	1.05	25.0	1	01/28/2019 14:03	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 14:03	WG1229314
Benzene	U		0.0896	0.500	1	01/28/2019 14:03	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 14:03	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 14:03	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 14:03	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 14:03	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 14:03	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 14:03	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 14:03	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 14:03	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 14:03	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 14:03	WG1229314
Chlorobenzene	U		0.140	0.500	1	01/28/2019 14:03	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 14:03	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 14:03	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 14:03	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 14:03	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 14:03	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 14:03	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 14:03	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 14:03	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 14:03	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 14:03	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 14:03	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 14:03	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 14:03	WG1229314
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/28/2019 14:03	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 14:03	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 14:03	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 14:03	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 14:03	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 14:03	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 14:03	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 14:03	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 14:03	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 14:03	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 14:03	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 14:03	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 14:03	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 14:03	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 14:03	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 14:03	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 14:03	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 14:03	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 14:03	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 14:03	WG1229314
Naphthalene	0.485	J	0.174	2.50	1	01/28/2019 14:03	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 14:03	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 14:03	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 14:03	WG1229314
1,1,2,2-Tetrachloroethane	U	JO	0.130	0.500	1	01/28/2019 14:03	WG1229314

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 01/25/19 00:00

L1064711

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Toluene	U		0.412	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Trichloroethene	U		0.153	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Vinyl acetate	U	<u>JO</u>	0.645	5.00	1	01/28/2019 16:40	<a href="#">WG1229419</a>
Vinyl chloride	U		0.118	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 14:03	<a href="#">WG1229314</a>
(S) Toluene-d8	104			80.0-120		01/28/2019 14:03	<a href="#">WG1229314</a>
(S) Toluene-d8	112			80.0-120		01/28/2019 16:40	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	97.0			75.0-120		01/28/2019 14:03	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	101			75.0-120		01/28/2019 16:40	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/28/2019 14:03	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	107			80.0-120		01/28/2019 16:40	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	87.6			77.0-126		01/28/2019 14:03	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	105			77.0-126		01/28/2019 16:40	<a href="#">WG1229419</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3379185-1 01/28/19 13:14

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Alkalinity	3070	↓	2710	20000

Sample Narrative:

BLANK: Endpoint pH 4.5

L1064133-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064133-01 01/28/19 13:30 • (DUP) R3379185-3 01/28/19 13:39

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	162000	166000	1	2.73		20

Sample Narrative:

OS: Endpoint pH 4.5  
DUP: Endpoint pH 4.5

L1063603-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1063603-03 01/28/19 17:06 • (DUP) R3379185-6 01/28/19 17:14

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Alkalinity	66400	61700	1	7.42		20

Sample Narrative:

OS: Endpoint pH 4.5 headspace  
DUP: Endpoint pH 4.5

Laboratory Control Sample (LCS)

(LCS) R3379185-4 01/28/19 14:22

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Alkalinity	100000	100000	100	85.0-115	

Sample Narrative:

LCS: Endpoint pH 4.5

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3379481-1 01/29/19 09:34

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		51.9	1000
Nitrate	U		22.7	100
Sulfate	U		77.4	5000

L1064711-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1064711-05 01/29/19 12:14 • (DUP) R3379481-3 01/29/19 12:25

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	31700	31700	1	0.0859		15
Nitrate	U	0.000	1	0.000		15
Sulfate	56900	56900	1	0.0503		15

Laboratory Control Sample (LCS)

(LCS) R3379481-2 01/29/19 09:45

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40000	41200	103	80.0-120	
Nitrate	8000	8360	105	80.0-120	
Sulfate	40000	41600	104	80.0-120	

L1064711-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064711-05 01/29/19 12:14 • (MS) R3379481-4 01/29/19 12:36 • (MSD) R3379481-5 01/29/19 12:46

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50000	31700	81100	81200	98.8	99.0	1	80.0-120			0.0922	15
Nitrate	5000	U	4940	4930	98.7	98.6	1	80.0-120			0.0953	15
Sulfate	50000	56900	105000	105000	96.7	96.7	1	80.0-120	<u>E</u>	<u>E</u>	0.00323	15

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3379231-1 01/28/19 12:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	222	↓	102	1000

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1063581-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1063581-08 01/28/19 16:27 • (DUP) R3379231-3 01/28/19 16:41

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	5200	5260	1	1.13		20

L1064289-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1064289-02 01/28/19 20:02 • (DUP) R3379231-6 01/28/19 20:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	4820	4810	1	0.332		20

Laboratory Control Sample (LCS)

(LCS) R3379231-2 01/28/19 13:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	79200	106	85.0-115	

L1063697-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1063697-09 01/28/19 17:50 • (MS) R3379231-4 01/28/19 18:08 • (MSD) R3379231-5 01/28/19 18:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	555	56500	56900	112	113	1	80.0-120			0.653	20

L1064289-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064289-03 01/28/19 20:30 • (MS) R3379231-7 01/28/19 20:48 • (MSD) R3379231-8 01/28/19 21:05

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	4890	59500	59600	109	110	1	80.0-120			0.235	20



Method Blank (MB)

(MB) R3379436-1 01/29/19 09:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TOC (Total Organic Carbon)	196	↓	102	1000

1 Cp

2 Tc

3 Ss

L1064711-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1064711-01 01/29/19 10:10 • (DUP) R3379436-3 01/29/19 10:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
TOC (Total Organic Carbon)	3980	3850	1	3.32		20

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R3379436-2 01/29/19 09:57

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
TOC (Total Organic Carbon)	75000	82100	109	85.0-115	

6 Qc

7 Gl

L1064289-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064289-08 01/29/19 11:07 • (MS) R3379436-4 01/29/19 11:26 • (MSD) R3379436-5 01/29/19 11:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TOC (Total Organic Carbon)	50000	3360	57100	57000	108	107	1	80.0-120			0.263	20

8 Al

9 Sc



Method Blank (MB)

(MB) R3379300-1 01/28/19 21:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Iron	U		15.0	100
Manganese	U		0.250	5.00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379300-2 01/28/19 21:15 • (LCSD) R3379300-3 01/28/19 21:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Iron	5000	4940	4940	98.7	98.7	80.0-120			0.0491	20
Manganese	50.0	49.4	49.0	98.9	98.0	80.0-120			0.898	20

<sup>5</sup> Sr

<sup>6</sup> Qc

L1064048-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064048-01 01/28/19 21:24 • (MS) R3379300-5 01/28/19 21:34 • (MSD) R3379300-6 01/28/19 21:38

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Iron	5000	U	4830	4780	96.6	95.5	1	75.0-125			1.11	20
Manganese	50.0	U	48.6	47.9	97.1	95.8	1	75.0-125			1.40	20

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Method Blank (MB)

(MB) R3379322-3 01/28/19 15:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Gasoline Range Organics-NWTPH	U		31.6	100
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379322-1 01/28/19 14:15 • (LCSD) R3379322-2 01/28/19 14:36

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	5250	5260	95.4	95.6	70.0-124			0.210	20
(S) a,a,a-Trifluorotoluene(FID)				106	105	78.0-120				

L1064558-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1064558-03 01/28/19 21:13 • (MS) R3379322-4 01/28/19 22:40 • (MSD) R3379322-5 01/28/19 23:02

Analyte	Spike Amount ug/l	Original Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5500	44000	529000	565000	88.2	94.8	100	10.0-155			6.64	21
(S) a,a,a-Trifluorotoluene(FID)					106	106		78.0-120				



Method Blank (MB)

(MB) R3379537-1 01/29/19 11:17

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Methane	U		0.287	0.678
Ethane	U		0.296	1.29
Ethene	U		0.422	1.27

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

L1064152-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1064152-05 01/29/19 13:11 • (DUP) R3379537-2 01/29/19 13:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	60.7	60.0	1	1.31		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

L1064152-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1064152-09 01/29/19 13:42 • (DUP) R3379537-3 01/29/19 14:27

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	ug/l	ug/l		%		%
Methane	U	0.000	1	0.000		20
Ethane	U	0.000	1	0.000		20
Ethene	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379537-4 01/29/19 14:45 • (LCSD) R3379537-5 01/29/19 14:48

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ug/l	ug/l	ug/l	%	%	%			%	%
Methane	67.8	76.4	71.0	113	105	85.0-115			7.33	20
Ethane	129	115	114	88.9	88.4	85.0-115			0.518	20
Ethene	127	111	113	87.6	89.0	85.0-115			1.62	20



Method Blank (MB)

(MB) R3379214-4 01/28/19 11:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		1.05	25.0
Acrylonitrile	U		0.873	5.00
Benzene	U		0.0896	0.500
Bromobenzene	U		0.133	0.500
Bromochloromethane	U		0.145	0.500
Bromodichloromethane	U		0.0800	0.500
Bromoform	U		0.186	0.500
Bromomethane	U		0.157	2.50
Carbon disulfide	U		0.101	0.500
n-Butylbenzene	U		0.143	0.500
sec-Butylbenzene	U		0.134	0.500
tert-Butylbenzene	U		0.183	0.500
Carbon tetrachloride	U		0.159	0.500
Chlorobenzene	U		0.140	0.500
Chlorodibromomethane	U		0.128	0.500
Chloroethane	U		0.141	2.50
Chloroform	U		0.0860	0.500
Chloromethane	U		0.153	1.25
2-Chlorotoluene	U		0.111	0.500
4-Chlorotoluene	U		0.0972	0.500
1,2-Dibromo-3-Chloropropane	U		0.325	2.50
1,2-Dibromoethane	U		0.193	0.500
Dibromomethane	U		0.117	0.500
1,2-Dichlorobenzene	U		0.101	0.500
1,3-Dichlorobenzene	U		0.130	0.500
1,4-Dichlorobenzene	U		0.121	0.500
Dichlorodifluoromethane	U		0.127	2.50
1,1-Dichloroethane	U		0.114	0.500
1,2-Dichloroethane	U		0.108	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.0933	0.500
trans-1,4-Dichloro-2-butene	U		0.257	5.00
trans-1,2-Dichloroethene	U		0.152	0.500
1,2-Dichloropropane	U		0.190	0.500
1,1-Dichloropropene	U		0.128	0.500
1,3-Dichloropropane	U		0.147	1.00
2-Hexanone	U		0.757	5.00
cis-1,3-Dichloropropene	U		0.0976	0.500
n-Hexane	U		0.305	5.00
trans-1,3-Dichloropropene	U		0.222	0.500

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3379214-4 01/28/19 11:21

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
2,2-Dichloropropane	U		0.0929	0.500
Iodomethane	U		0.377	10.0
Di-isopropyl ether	U		0.0924	0.500
Ethylbenzene	U		0.158	0.500
Hexachloro-1,3-butadiene	U		0.157	1.00
Isopropylbenzene	U		0.126	0.500
p-Isopropyltoluene	U		0.138	0.500
2-Butanone (MEK)	U		1.28	5.00
Methylene Chloride	U		1.07	2.50
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00
Methyl tert-butyl ether	U		0.102	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.162	0.500
Styrene	U		0.117	0.500
1,1,1,2-Tetrachloroethane	U		0.120	0.500
1,1,2,2-Tetrachloroethane	U		0.130	0.500
Tetrachloroethene	U		0.199	0.500
Toluene	U		0.412	0.500
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.355	0.500
1,1,1-Trichloroethane	U		0.0940	0.500
1,1,2-Trichloroethane	U		0.186	0.500
Trichloroethene	U		0.153	0.500
Trichlorofluoromethane	U		0.130	2.50
1,2,3-Trichloropropane	U		0.247	2.50
1,2,3-Trimethylbenzene	U		0.0739	0.500
1,2,4-Trimethylbenzene	U		0.123	0.500
1,3,5-Trimethylbenzene	U		0.124	0.500
Vinyl chloride	U		0.118	0.500
Xylenes, Total	U		0.316	1.50
(S) Toluene-d8	107			80.0-120
(S) Dibromofluoromethane	98.1			75.0-120
(S) a,a,a-Trifluorotoluene	104			80.0-120
(S) 4-Bromofluorobenzene	88.2			77.0-126

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379214-1 01/28/19 09:43 • (LCSD) R3379214-3 01/28/19 10:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromochloromethane	25.0	26.2	25.8	105	103	76.0-122			1.40	20
Carbon disulfide	25.0	23.3	22.2	93.0	88.7	61.0-128			4.80	20
trans-1,4-Dichloro-2-butene	25.0	21.9	20.8	87.7	83.0	33.0-144			5.42	20
2-Hexanone	125	129	122	103	97.3	67.0-149			5.89	20
n-Hexane	25.0	22.8	22.6	91.4	90.3	57.0-133			1.19	20
Iodomethane	125	124	123	99.1	98.0	33.0-147			1.07	26
Acetone	125	109	105	87.6	84.2	19.0-160			3.98	27
Acrylonitrile	125	125	116	100	92.6	55.0-149			7.97	20
Benzene	25.0	23.7	23.2	94.9	93.0	70.0-123			2.09	20
Bromobenzene	25.0	21.6	21.9	86.3	87.5	73.0-121			1.33	20
Bromodichloromethane	25.0	27.2	26.3	109	105	75.0-120			3.31	20
Bromoform	25.0	24.3	23.5	97.1	94.1	68.0-132			3.12	20
Bromomethane	25.0	25.5	23.9	102	95.7	10.0-160			6.35	25
n-Butylbenzene	25.0	25.5	25.8	102	103	73.0-125			1.04	20
sec-Butylbenzene	25.0	25.8	26.4	103	105	75.0-125			2.18	20
tert-Butylbenzene	25.0	26.1	27.2	104	109	76.0-124			3.94	20
Carbon tetrachloride	25.0	23.3	22.7	93.2	90.6	68.0-126			2.74	20
Chlorobenzene	25.0	27.5	26.8	110	107	80.0-121			2.66	20
Chlorodibromomethane	25.0	26.4	25.6	105	102	77.0-125			3.09	20
Chloroethane	25.0	24.4	22.6	97.6	90.3	47.0-150			7.80	20
Chloroform	25.0	24.3	23.3	97.0	93.3	73.0-120			3.96	20
Chloromethane	25.0	26.3	25.0	105	100	41.0-142			4.96	20
2-Chlorotoluene	25.0	23.6	24.2	94.4	96.8	76.0-123			2.53	20
4-Chlorotoluene	25.0	24.5	25.3	98.1	101	75.0-122			2.91	20
1,2-Dibromo-3-Chloropropane	25.0	24.0	22.8	96.0	91.2	58.0-134			5.14	20
1,2-Dibromoethane	25.0	26.8	25.8	107	103	80.0-122			3.70	20
Dibromomethane	25.0	27.0	25.7	108	103	80.0-120			5.18	20
1,2-Dichlorobenzene	25.0	27.2	27.2	109	109	79.0-121			0.0898	20
1,3-Dichlorobenzene	25.0	26.9	27.3	107	109	79.0-120			1.46	20
1,4-Dichlorobenzene	25.0	25.0	25.4	100	102	79.0-120			1.67	20
Dichlorodifluoromethane	25.0	24.5	23.2	98.0	92.9	51.0-149			5.37	20
1,1-Dichloroethane	25.0	25.8	25.2	103	101	70.0-126			2.51	20
1,2-Dichloroethane	25.0	26.5	25.5	106	102	70.0-128			3.90	20
1,1-Dichloroethene	25.0	23.9	23.4	95.8	93.4	71.0-124			2.48	20
cis-1,2-Dichloroethene	25.0	25.9	25.0	104	99.8	73.0-120			3.62	20
trans-1,2-Dichloroethene	25.0	25.3	23.7	101	94.8	73.0-120			6.63	20
1,2-Dichloropropane	25.0	27.3	27.3	109	109	77.0-125			0.0996	20
1,1-Dichloropropene	25.0	23.0	23.1	92.0	92.3	74.0-126			0.309	20
1,3-Dichloropropane	25.0	27.1	26.4	108	105	80.0-120			2.64	20
cis-1,3-Dichloropropene	25.0	26.0	26.0	104	104	80.0-123			0.0888	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379214-1 01/28/19 09:43 • (LCSD) R3379214-3 01/28/19 10:22

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
trans-1,3-Dichloropropene	25.0	27.3	27.1	109	108	78.0-124			0.972	20
2,2-Dichloropropane	25.0	24.8	25.3	99.3	101	58.0-130			2.05	20
Di-isopropyl ether	25.0	27.6	27.0	110	108	58.0-138			2.09	20
Ethylbenzene	25.0	25.6	25.4	102	102	79.0-123			0.583	20
Hexachloro-1,3-butadiene	25.0	23.3	23.9	93.2	95.7	54.0-138			2.65	20
Isopropylbenzene	25.0	23.3	23.9	93.0	95.7	76.0-127			2.82	20
p-Isopropyltoluene	25.0	26.3	26.6	105	107	76.0-125			1.48	20
2-Butanone (MEK)	125	113	108	90.7	86.1	44.0-160			5.19	20
Methylene Chloride	25.0	24.2	23.1	97.0	92.6	67.0-120			4.64	20
4-Methyl-2-pentanone (MIBK)	125	128	121	102	96.8	68.0-142			5.41	20
Methyl tert-butyl ether	25.0	25.7	25.1	103	100	68.0-125			2.56	20
Naphthalene	25.0	20.7	23.3	82.8	93.1	54.0-135			11.8	20
n-Propylbenzene	25.0	22.5	23.9	90.2	95.7	77.0-124			5.93	20
Styrene	25.0	24.3	25.5	97.2	102	73.0-130			5.00	20
1,1,1,2-Tetrachloroethane	25.0	28.6	28.6	114	115	75.0-125			0.194	20
1,1,2,2-Tetrachloroethane	25.0	20.0	19.8	79.8	79.3	65.0-130			0.733	20
Tetrachloroethene	25.0	27.0	26.9	108	108	72.0-132			0.123	20
Toluene	25.0	26.1	26.2	104	105	79.0-120			0.185	20
1,1,2-Trichlorotrifluoroethane	25.0	24.2	23.0	96.9	91.9	69.0-132			5.35	20
1,2,3-Trichlorobenzene	25.0	21.4	21.2	85.6	84.8	50.0-138			0.954	20
1,2,4-Trichlorobenzene	25.0	24.0	24.3	96.1	97.3	57.0-137			1.23	20
1,1,1-Trichloroethane	25.0	26.0	25.0	104	100	73.0-124			3.89	20
1,1,2-Trichloroethane	25.0	26.3	25.9	105	103	80.0-120			1.76	20
Trichloroethene	25.0	28.4	27.5	114	110	78.0-124			3.01	20
Trichlorofluoromethane	25.0	24.3	23.0	97.2	92.2	59.0-147			5.29	20
1,2,3-Trichloropropane	25.0	23.8	23.7	95.3	94.9	73.0-130			0.419	20
1,2,3-Trimethylbenzene	25.0	20.1	20.3	80.6	81.3	77.0-120			0.928	20
1,2,4-Trimethylbenzene	25.0	25.8	27.0	103	108	76.0-121			4.22	20
1,3,5-Trimethylbenzene	25.0	23.7	24.7	94.8	98.7	76.0-122			4.00	20
Vinyl chloride	25.0	24.8	23.0	99.2	91.8	67.0-131			7.76	20
Xylenes, Total	75.0	81.1	81.1	108	108	79.0-123			0.000	20
(S) Toluene-d8				102	102	80.0-120				
(S) Dibromofluoromethane				97.3	96.2	75.0-120				
(S) a,a,a-Trifluorotoluene				106	104	80.0-120				
(S) 4-Bromofluorobenzene				85.5	86.2	77.0-126				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3379278-2 01/28/19 12:08

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Vinyl acetate	U		0.645	5.00
(S) Toluene-d8	113			80.0-120
(S) Dibromofluoromethane	100			75.0-120
(S) a,a,a-Trifluorotoluene	109			80.0-120
(S) 4-Bromofluorobenzene	106			77.0-126

Laboratory Control Sample (LCS)

(LCS) R3379278-1 01/28/19 10:50

Analyte	Spike Amount ug/l	LCS Result ug/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Vinyl acetate	125	149	119	11.0-160	
(S) Toluene-d8			112	80.0-120	
(S) Dibromofluoromethane			98.7	75.0-120	
(S) a,a,a-Trifluorotoluene			108	80.0-120	
(S) 4-Bromofluorobenzene			105	77.0-126	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Method Blank (MB)

(MB) R3379344-2 01/29/19 00:38

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Naphthalene	U		0.174	2.50
(S) Toluene-d8	107			80.0-120
(S) Dibromofluoromethane	97.5			75.0-120
(S) a,a,a-Trifluorotoluene	104			80.0-120
(S) 4-Bromofluorobenzene	83.9			77.0-126

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3379344-1 01/28/19 23:58 • (LCSD) R3379344-3 01/29/19 03:19

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	25.0	21.5	23.4	86.0	93.5	54.0-135			8.41	20
(S) Toluene-d8				104	105	80.0-120				
(S) Dibromofluoromethane				99.0	96.8	75.0-120				
(S) a,a,a-Trifluorotoluene				106	104	80.0-120				
(S) 4-Bromofluorobenzene				86.9	84.0	77.0-126				

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J0	J0: The identification of the analyte is acceptable, but the reported concentration is an estimate. The calibration method criteria.
T8	Sample(s) received past/too close to holding time expiration.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

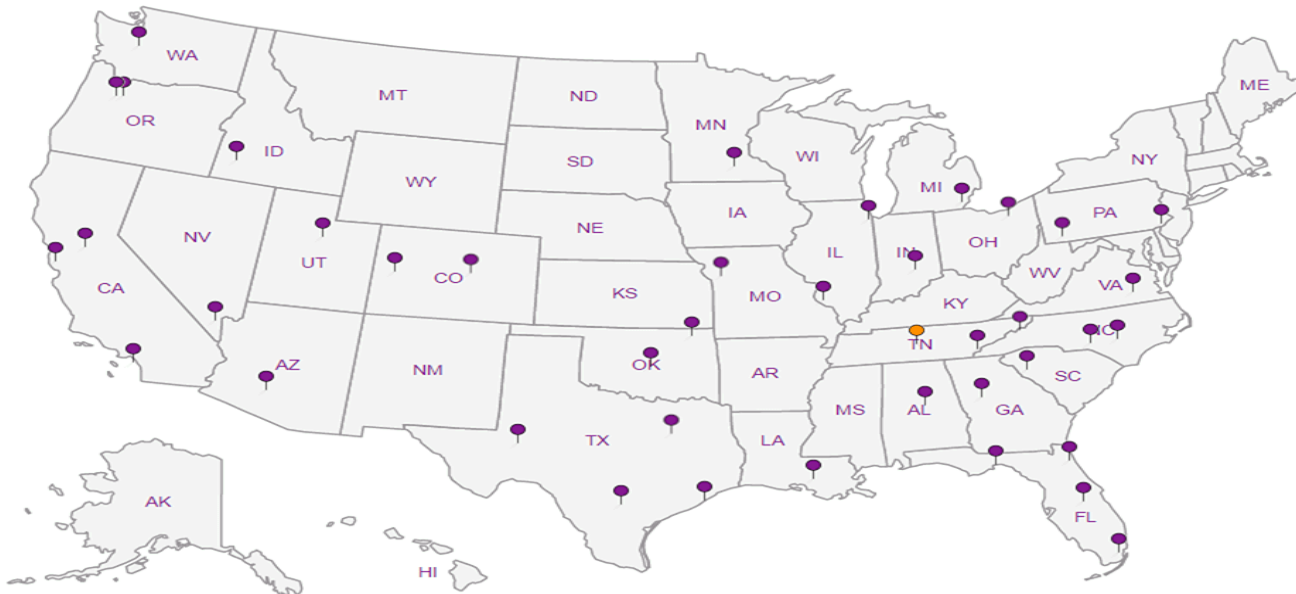
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**  
 1215 Fourth Ave., Suite 1350  
 Seattle, WA 98161

Billing Information:  
 Attn: Accounts Payable  
 1215 Fourth Ave., Ste. 1350  
 Seattle, WA 98161

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: boneal@pesenv.com;  
 bhaldeman@pesenv.com;

Project  
 Description: **American Linen**

City/State  
 Collected: **Seattle, WA**

Phone: **206-529-3980**  
 Fax: **206-529-3985**

Client Project # **305**  
**1413.001.05.601**

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
**Ben Hecht**

Site/Facility ID #  
**American Linen**

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Immediately Packed on Ice N  Y

Date Results Needed  
**Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-160-012519	Grab	GW	123	1-25-19	10:15	12
R-MW-012519		GW	17		10:30	6
W-MW-02-012519		GW	75		11:45	12
MW-161-012519		GW	135		12:10	12
W-MW-01-012519		GW	75		13:55	12
Trip Blank-012519		GW	-			1
		GW				
		GW				
		GW				
		GW				

\* Matrix:  
 SS - Soil AIR - Air F - Filter  
 GW - Groundwater B - Bioassay  
 WW - WasteWater  
 DW - Drinking Water  
 OT - Other

Remarks:  
 Samples returned via:  
 UPS  FedEx  Courier

Relinquished by: (Signature)

Date: **1-25-19**  
 Time: **16:00**

Received by: (Signature)

Trip Blank Received:  Yes /  No  
 HCL / MeOH

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: **14.5** °C  
 Bottles Received: **51**

Relinquished by: (Signature)

Date: Time:

Received for lab use (Signature)

Date: **1/28/19**  
 Time: **10:00**

Analysis / Container / Preservative	
Pres Chk	
*NO3, SO4, Cl* 125mlHDPE-NoPres	
Alkalinity 125mlHDPE-NoPres	
EEM (RSK175LL) 40mlAmb-HCl	
NWTPHGX 40mlAmb HCl	
TOC 250mlAmb-HCl	
Total Fe Mn 6020 250mlHDPE-HNO3	
VOCs (8260LLC) 40mlAmb-HCl	

Chain of Custody Page \_\_\_ of \_\_\_

12085 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859

L#  
**G206**

Acctnum: **PESENVSWA**  
 Template: **T143845**  
 Prelogin: **P685358**  
 TSR: 110 - Brian Ford  
 PB: **12/13/18 WAB**  
 Shipped Via: **FedEx Ground**

Remarks	Sample # (lab only)
	01
	02
	03
	04
	05
	06

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Bottles Arrive Intact:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
VOL 2500 Readspace:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

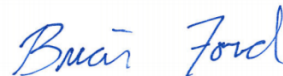
If preservation required by Login: Date/Time  
 Hold:  
 Condition: **NCE / OK**

February 20, 2019

## **PES Environmental, Inc.- WA**

Sample Delivery Group: L1070990  
Samples Received: 02/16/2019  
Project Number:  
Description: American Linen  
Site: AMERICAN LINEN  
Report To: Brian O'Neal/Bill Haldeman  
1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Entire Report Reviewed By:



Brian Ford  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b>Cp: Cover Page</b>	<b>1</b>	<b>1</b> Cp
<b>Tc: Table of Contents</b>	<b>2</b>	<b>2</b> Tc
<b>Ss: Sample Summary</b>	<b>3</b>	<b>3</b> Ss
<b>Cn: Case Narrative</b>	<b>4</b>	<b>4</b> Cn
<b>Sr: Sample Results</b>	<b>5</b>	<b>5</b> Sr
SV01-020619 L1070990-01	<b>5</b>	
SV02-020619 L1070990-02	<b>7</b>	
SV03-020619 L1070990-03	<b>9</b>	
<b>Qc: Quality Control Summary</b>	<b>11</b>	<b>6</b> Qc
Volatile Organic Compounds (MS) by Method TO-15	<b>11</b>	
<b>Gl: Glossary of Terms</b>	<b>15</b>	<b>7</b> Gl
<b>Al: Accreditations &amp; Locations</b>	<b>16</b>	<b>8</b> Al
<b>Sc: Sample Chain of Custody</b>	<b>17</b>	<b>9</b> Sc

# SAMPLE SUMMARY



## SV01-020619 L1070990-01 Air

Collected by  
Chris Deboer

Collected date/time  
02/06/19 09:05

Received date/time  
02/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1239127	2	02/19/19 21:25	02/19/19 21:25	AMC

1  
Cp

2  
Tc

3  
Ss

## SV02-020619 L1070990-02 Air

Collected by  
Chris Deboer

Collected date/time  
02/06/19 10:05

Received date/time  
02/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1239127	2	02/19/19 22:08	02/19/19 22:08	AMC

4  
Cn

5  
Sr

## SV03-020619 L1070990-03 Air

Collected by  
Chris Deboer

Collected date/time  
02/06/19 11:30

Received date/time  
02/16/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1239127	2	02/19/19 22:55	02/19/19 22:55	AMC

6  
Qc

7  
Gl

8  
Al

9  
Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Brian Ford  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Collected date/time: 02/06/19 09:05

L1070990

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	ND	ND		2	WG1239127
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1239127
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1239127
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1239127
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1239127
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1239127
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1239127
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1239127
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1239127
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1239127
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1239127
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1239127
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1239127
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1239127
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1239127
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1239127
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1239127
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1239127
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1239127
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1239127
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1239127
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1239127
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1239127
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1239127
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1239127
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1239127
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1239127
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1239127
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1239127
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1239127
Ethanol	64-17-5	46.10	1.26	2.38	3.77	7.11		2	WG1239127
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1239127
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1239127
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1239127
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1239127
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1239127
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1239127
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1239127
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1239127
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1239127
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1239127
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.678	2.35		2	WG1239127
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1239127
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1239127
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1239127
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1239127
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1239127
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1239127
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1239127
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1239127
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1239127
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1239127
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1239127
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1239127
Toluene	108-88-3	92.10	0.400	1.51	0.487	1.83		2	WG1239127
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1239127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	4.05	22.0		2	<a href="#">WG1239127</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1239127</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1239127</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1239127</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1239127</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1239127</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1239127</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1239127</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1239127</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1239127</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1239127</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.7				<a href="#">WG1239127</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/06/19 10:05

L1070990

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	11.5	27.3		2	WG1239127
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1239127
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1239127
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1239127
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1239127
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1239127
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1239127
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1239127
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1239127
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1239127
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1239127
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1239127
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1239127
Chloromethane	74-87-3	50.50	0.400	0.826	0.569	1.18		2	WG1239127
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1239127
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1239127
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1239127
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1239127
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1239127
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1239127
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1239127
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1239127
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1239127
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1239127
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1239127
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1239127
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1239127
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1239127
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1239127
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1239127
Ethanol	64-17-5	46.10	1.26	2.38	30.2	56.9		2	WG1239127
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1239127
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1239127
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1239127
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.499	2.47		2	WG1239127
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1239127
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1239127
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1239127
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1239127
n-Hexane	110-54-3	86.20	0.400	1.41	0.563	1.99		2	WG1239127
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1239127
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.942	3.27		2	WG1239127
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1239127
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1239127
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1239127
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1239127
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1239127
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1239127
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1239127
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1239127
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1239127
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1239127
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1239127
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1239127
Toluene	108-88-3	92.10	0.400	1.51	0.840	3.16		2	WG1239127
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1239127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	<a href="#">WG1239127</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1239127</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1239127</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1239127</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1239127</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1239127</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1239127</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1239127</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1239127</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1239127</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1239127</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		98.2				<a href="#">WG1239127</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/06/19 11:30

L1070990

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	9.42	22.4		2	WG1239127
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1239127
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1239127
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1239127
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1239127
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1239127
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1239127
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1239127
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1239127
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1239127
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1239127
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1239127
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1239127
Chloromethane	74-87-3	50.50	0.400	0.826	0.811	1.68		2	WG1239127
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1239127
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1239127
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1239127
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1239127
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1239127
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1239127
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1239127
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1239127
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1239127
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1239127
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1239127
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1239127
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1239127
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1239127
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1239127
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1239127
Ethanol	64-17-5	46.10	1.26	2.38	10.1	19.0		2	WG1239127
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1239127
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1239127
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1239127
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1239127
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1239127
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1239127
Heptane	142-82-5	100	0.400	1.64	0.807	3.30		2	WG1239127
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1239127
n-Hexane	110-54-3	86.20	0.400	1.41	3.47	12.2		2	WG1239127
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1239127
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.729	2.53		2	WG1239127
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1239127
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1239127
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1239127
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1239127
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1239127
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1239127
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1239127
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1239127
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1239127
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1239127
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1239127
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1239127
Toluene	108-88-3	92.10	0.400	1.51	0.459	1.73		2	WG1239127
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1239127

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/06/19 11:30

L1070990

## Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	<a href="#">WG1239127</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1239127</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1239127</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1239127</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1239127</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1239127</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1239127</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1239127</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1239127</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1239127</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1239127</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		97.7				<a href="#">WG1239127</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Method Blank (MB)

(MB) R3385279-3 02/19/19 12:01

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Method Blank (MB)

(MB) R3385279-3 02/19/19 12:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
Methylene Chloride	U		0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	U		0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrachloroethylene	U		0.0497	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
Trichloroethylene	U		0.0545	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	97.9			60.0-140

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3385279-1 02/19/19 10:32 • (LCSD) R3385279-2 02/19/19 11:16

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Ethanol	3.75	3.77	3.88	101	104	55.0-148			3.02	25
Propene	3.75	4.04	4.08	108	109	64.0-144			0.855	25
Dichlorodifluoromethane	3.75	4.42	4.41	118	118	64.0-139			0.353	25
1,2-Dichlorotetrafluoroethane	3.75	4.06	4.10	108	109	70.0-130			0.967	25
Chloromethane	3.75	4.15	4.17	111	111	70.0-130			0.347	25



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3385279-1 02/19/19 10:32 • (LCSD) R3385279-2 02/19/19 11:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Vinyl chloride	3.75	3.91	3.92	104	105	70.0-130			0.161	25
1,3-Butadiene	3.75	3.84	3.89	102	104	70.0-130			1.53	25
Bromomethane	3.75	3.94	3.98	105	106	70.0-130			1.08	25
Chloroethane	3.75	4.07	4.10	109	109	70.0-130			0.741	25
Trichlorofluoromethane	3.75	4.04	4.06	108	108	70.0-130			0.421	25
1,1,2-Trichlorotrifluoroethane	3.75	4.05	4.09	108	109	70.0-130			0.975	25
1,1-Dichloroethene	3.75	4.00	4.03	107	108	70.0-130			0.707	25
1,1-Dichloroethane	3.75	3.99	4.01	106	107	70.0-130			0.379	25
Acetone	3.75	4.03	4.10	107	109	70.0-130			1.78	25
2-Propanol	3.75	4.06	4.10	108	109	70.0-139			0.802	25
Carbon disulfide	3.75	3.95	3.99	105	106	70.0-130			0.972	25
Methylene Chloride	3.75	3.77	3.80	101	101	70.0-130			0.685	25
MTBE	3.75	3.98	4.02	106	107	70.0-130			0.928	25
trans-1,2-Dichloroethene	3.75	4.05	4.06	108	108	70.0-130			0.317	25
n-Hexane	3.75	3.99	4.00	106	107	70.0-130			0.165	25
Vinyl acetate	3.75	4.18	4.18	111	111	70.0-130			0.0121	25
Methyl Ethyl Ketone	3.75	4.06	4.06	108	108	70.0-130			0.141	25
cis-1,2-Dichloroethene	3.75	4.00	4.01	107	107	70.0-130			0.151	25
Chloroform	3.75	3.94	3.94	105	105	70.0-130			0.0613	25
Cyclohexane	3.75	3.97	4.00	106	107	70.0-130			0.766	25
1,1,1-Trichloroethane	3.75	3.99	3.97	106	106	70.0-130			0.390	25
Carbon tetrachloride	3.75	4.01	4.01	107	107	70.0-130			0.0545	25
Benzene	3.75	3.94	3.96	105	105	70.0-130			0.384	25
1,2-Dichloroethane	3.75	4.00	3.97	107	106	70.0-130			0.599	25
Heptane	3.75	4.01	3.97	107	106	70.0-130			1.04	25
Trichloroethylene	3.75	3.92	3.91	105	104	70.0-130			0.257	25
1,2-Dichloropropane	3.75	3.94	3.89	105	104	70.0-130			1.09	25
1,4-Dioxane	3.75	4.07	4.03	109	108	70.0-140			1.02	25
Bromodichloromethane	3.75	3.98	3.98	106	106	70.0-130			0.0428	25
cis-1,3-Dichloropropene	3.75	4.06	4.07	108	109	70.0-130			0.302	25
4-Methyl-2-pentanone (MIBK)	3.75	4.14	4.14	110	110	70.0-139			0.0229	25
Toluene	3.75	4.00	3.99	107	106	70.0-130			0.364	25
trans-1,3-Dichloropropene	3.75	4.13	4.14	110	110	70.0-130			0.109	25
1,1,2-Trichloroethane	3.75	3.91	3.91	104	104	70.0-130			0.111	25
Tetrachloroethylene	3.75	3.91	3.89	104	104	70.0-130			0.554	25
Methyl Butyl Ketone	3.75	4.31	4.34	115	116	70.0-149			0.750	25
Dibromochloromethane	3.75	4.06	4.07	108	109	70.0-130			0.192	25
1,2-Dibromoethane	3.75	4.10	4.09	109	109	70.0-130			0.222	25
Chlorobenzene	3.75	4.05	4.04	108	108	70.0-130			0.346	25
Ethylbenzene	3.75	4.08	4.09	109	109	70.0-130			0.292	25

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3385279-1 02/19/19 10:32 • (LCSD) R3385279-2 02/19/19 11:16

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
m&p-Xylene	7.50	8.14	8.12	109	108	70.0-130			0.200	25
o-Xylene	3.75	4.05	4.07	108	109	70.0-130			0.482	25
Styrene	3.75	4.20	4.22	112	113	70.0-130			0.487	25
Bromoform	3.75	4.14	4.17	110	111	70.0-130			0.711	25
1,1,2,2-Tetrachloroethane	3.75	4.08	4.09	109	109	70.0-130			0.271	25
4-Ethyltoluene	3.75	4.20	4.20	112	112	70.0-130			0.109	25
1,3,5-Trimethylbenzene	3.75	4.18	4.20	111	112	70.0-130			0.627	25
1,2,4-Trimethylbenzene	3.75	4.20	4.22	112	113	70.0-130			0.562	25
1,3-Dichlorobenzene	3.75	4.21	4.25	112	113	70.0-130			0.938	25
1,4-Dichlorobenzene	3.75	4.34	4.37	116	117	70.0-130			0.668	25
Benzyl Chloride	3.75	4.45	4.50	119	120	70.0-152			1.29	25
1,2-Dichlorobenzene	3.75	4.17	4.20	111	112	70.0-130			0.625	25
1,2,4-Trichlorobenzene	3.75	4.01	4.08	107	109	70.0-160			1.83	25
Hexachloro-1,3-butadiene	3.75	4.04	4.05	108	108	70.0-151			0.310	25
Naphthalene	3.75	4.07	4.13	109	110	70.0-159			1.43	25
Allyl Chloride	3.75	3.98	4.04	106	108	70.0-130			1.39	25
2-Chlorotoluene	3.75	4.15	4.17	111	111	70.0-130			0.453	25
Methyl Methacrylate	3.75	4.03	4.05	108	108	70.0-130			0.355	25
Tetrahydrofuran	3.75	4.01	4.02	107	107	70.0-137			0.419	25
2,2,4-Trimethylpentane	3.75	4.04	4.05	108	108	70.0-130			0.106	25
Vinyl Bromide	3.75	3.98	4.03	106	108	70.0-130			1.38	25
Isopropylbenzene	3.75	4.10	4.11	109	110	70.0-130			0.235	25
(S) 1,4-Bromofluorobenzene				99.8	100	60.0-140				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

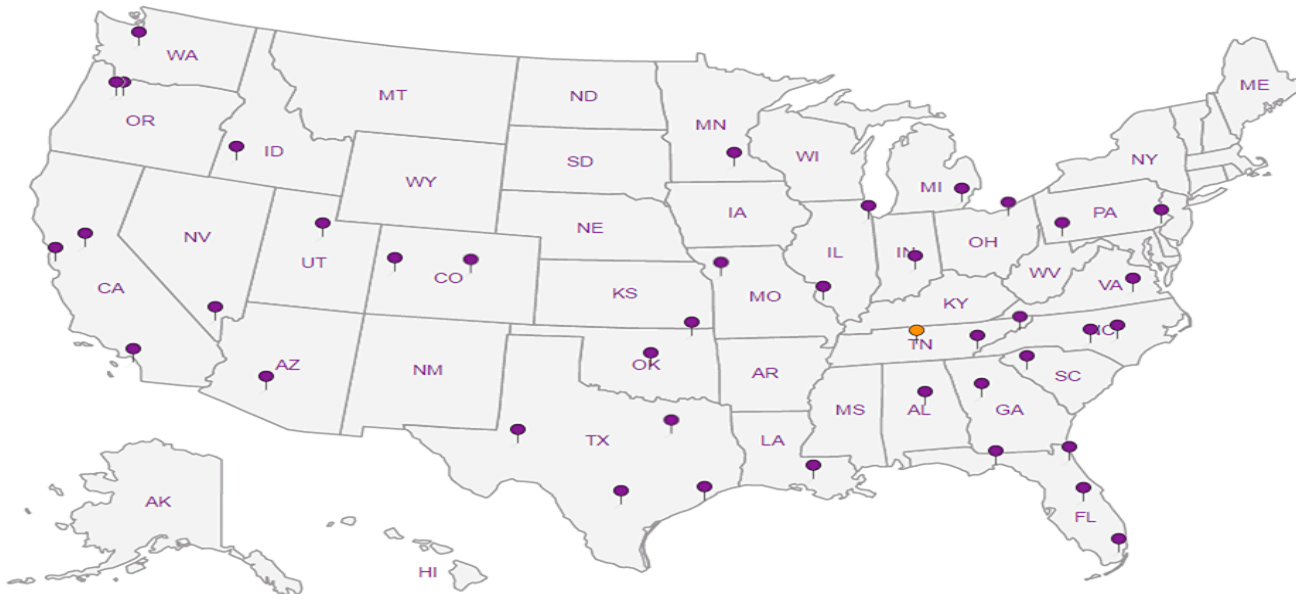
## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

**PES Environmental, Inc.- WA**

1215 Fourth Ave., Suite 1350  
Seattle, WA 98161

Billing Information:

Attn: Accounts Payable  
1215 Fourth Ave., Ste. 1350  
Seattle, WA 98161

Report to:  
**Brian O'Neal/Bill Haldeman**

Email To: [boneal@pesenv.com](mailto:boneal@pesenv.com);  
[bhaldeman@pesenv.com](mailto:bhaldeman@pesenv.com);

Project  
Description: **American Linen**

City/State  
Collected: **Seattle, WA**

Phone: **206-529-3980**  
Fax: **206-529-3985**

Client Project #

Lab Project #  
**PESENVSWA-ALP**

Collected by (print):  
*Chris DeBoer*

Site/Facility ID #  
*American Linen*

P.O. #

Collected by (signature):  
*Chris DeBoer*

**Rush?** (Lab MUST Be Notified)  
 Same Day  Five Day  
 Next Day  5 Day (Rad Only)  
 Two Day  10 Day (Rad Only)  
 Three Day

Quote #

Date Results Needed

Immediately  
Packed on Ice N  Y

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
SV01-020619	Grab	Air	~12'	2/6/19	905	1
SV02-020619	Grab	Air	~12'	2/6/19	1005	1
SV03-020619	Grab	Air	~12'	2/6/19	1130	1
		Air				

Helium Summa

TO-15 Summa

Analysis / Container / Preservative

Pres  
Chk

Chain of Custody Page \_\_\_ of \_\_\_



12065 Lebanon Rd  
Mount Juliet, TN 37122  
Phone: 615-758-5858  
Phone: 800-767-5859  
Fax: 615-758-5859



L# **L1670990**

Ta **M049**

Acctnum: **PESENVSWA**

Template: **T145541**

Prelogin: **P691360**

TSR: **110 - Brian Ford**

PB:

Shipped Via:

Remarks Sample # (lab only)

\* Matrix:  
**SS** - Soil **AIR** - Air **F** - Filter  
**GW** - Groundwater **B** - Bioassay  
**WW** - WasteWater  
**DW** - Drinking Water  
**OT** - Other \_\_\_\_\_

Remarks:

Samples returned via:

UPS  FedEx  Courier \_\_\_\_\_

Tracking #

**45856470 7888**

pH \_\_\_\_\_ Temp \_\_\_\_\_

Flow \_\_\_\_\_ Other \_\_\_\_\_

Sample Receipt Checklist

COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 If Applicable  
 VOA Zero Headspace:  Y  N  
 Preservation Correct/Checked:  Y  N

Relinquished by: (Signature)

*Chris DeBoer*

Date:

**2/8/19**

Time:

**1030**

Received by: (Signature)

Trip Blank Received: Yes /  No

HCL / MeOH  
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: **Amb** °C Bottles Received: **3**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: **2/16/19** Time: **0845**

Hold:

Condition:  
NCF /  OK

## MEMORANDUM

**TO:** Project File **DATE:** October 24, 2018  
**FROM:** Jessie Compeau  
**SUBJECT:** Laboratory Data Validation Review  
**PROJECT:** American Linen Data Validation  
**PROJECT #:** 1413.001.05.303  
**TASK:** September 2018 – Soil Vapor Samples  
**LAB:** Pace Sample Delivery Group (SDG): L1030304

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Four (4) soil vapor samples including one (1) field duplicate were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on September 25, 2018. The samples were shipped and delivered to Pace Analytical (formerly ESC Lab Sciences (ESC)) of Mount Juliet, TN for laboratory analysis. Samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15.

Associated soil sample data are reported in five Pace SDGs (L1022679, L1024338, L1025469, L1026432, and L1029197). The quality assurance review of the sample data associated with L1030304 is summarized below.

### DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace Analytical (Pace) control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

### DATA VALIDATION

#### Completeness

All samples were collected and analyzed as requested.

#### Sample Collection and Preservation

The laboratory supplied Summa Canisters™ canister (1-Liter) for the air samples. The samples were shipped, delivered by FedEx, and received in good condition by the laboratory. The samples were collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

## **Holding Times**

### *USEPA Method TO-15:*

The analyses for VOCs was performed within the 30-day recommended holding time limit for the air samples collected in a Summa canisters. No data was qualified based upon holding times.

## **Initial and Continuing Calibration**

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. Case narrative and laboratory notes do not indicate that there are any issues with calibration.

## **Method Blank Results**

### *USEPA Method TO-15:*

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the reporting detection limits (RDLs) with the following exceptions:

- Analytical batch WG1174010: Low levels of 1,2-dichlorobenzene, 1,4-dichlorobenzene, hexachloro-1,3-butadiene, and naphthalene are detected in the method blank. No action was necessary as these compounds were not detected in the associated samples.

## **Trip Blank Results**

### *USEPA Method TO-15:*

A trip blank is not required for the VOCs. No qualifications were warranted due to the lack of a trip blank for this method.

## **Field, Rinsate, or Equipment Blank Results**

Field, rinsate, or equipment blanks were not collected.

## **Field Duplicate Analyses**

Field duplicate sample pair is as follows:

- Samples SV01-092518 and SV01-092518-D

Field duplicate pair was submitted and analyzed for VOCs. VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (1x RL for results <5X the RDL) for the field duplicate with the following exceptions:

- Field duplicate results for 1,4-dioxane, tetrachloroethylene, and tetrahydrofuran are not comparable and above acceptance criteria. **Field duplicate pair (SV01-092518 and SV01-092518-D) results for these compounds are estimated and qualified (J/UJ) due to poor field duplicate precision.**

## **Laboratory Duplicate Analyses**

*USEPA Method TO-15:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

## **Surrogate Recoveries**

*USEPA Method TO-15:*

The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all of the analyses.

## **Laboratory Control Samples**

*USEPA Method TO-15:*

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method TO-15 method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions and exceptions:

- Analytical Batch WG1174010: LCSD recovery for 1,2-dichlorotetrafluoroethane is slightly above control limit criteria and laboratory qualified (J4). This compound is not detected in the associated samples. **Compound (1,2-dichlorotetrafluoroethane) is considered not detected (U) in the associated samples due to the elevated LCSD recovery.**

## **Matrix Spike/Matrix Spike Duplicates**

*USEPA Method TO-15:*

A matrix spike/matrix spike duplicate (MS/MSD) is not required for VOCs.

## **Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- Electronic data deliverables for this SDG are provided by the laboratory and data validator qualifiers were entered into the EDD. In some cases different chemical synonyms are used between the EDD and hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

## **Quantitation Limits**

The RDLs used for this sample group are acceptable for the project.

## **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.



## MEMORANDUM

**TO:** Project File **DATE:** November 12, 2018  
**FROM:** Jessie Compeau  
**SUBJECT:** Laboratory Data Validation Review  
**PROJECT:** American Linen Data Validation  
**PROJECT #:** 1413.001.05.304  
**TASK:** October 2018 - Groundwater Samples  
**LAB:** Pace Analytical Sample Delivery Groups L1038864, L1038867, and L1039305

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Eighteen (18) groundwater samples (including one field duplicate), one rinsate, and one trip blank sample were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, between October 25 and October 29, 2018. The samples were shipped and delivered to Pace Analytical (formerly ESC Lab Sciences (ESC)) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C; and
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical methods stipulated by Washington State Department of Ecology.

Associated sample data are reported in three Pace Analytical (Pace) SDGs (L1038864, L1038867, and L1039305). The quality assurance review of the sample data are summarized below.

### DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

### DATA VALIDATION

#### Completeness

All samples were collected and analyzed as requested.

## Sample Collection and Preservation

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at cooler temperatures less than the recommended temperature preservation less than 6°C. Samples were received in good condition with the following discussion:

- SDG L1038864. Sample W-MW-02-102618 is incorrectly listed on the lab report as IW-MW-02-102618. No action is taken other than to note this as a minor discrepancy.

No data were qualified based upon the sample collection and preservation information.

## Holding Times

### *USEPA Method 8260C:*

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

### *NWTPH-Gx Method:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDG L1038864 - *USEPA Method 8260C*: A continuing calibration verification (CCV) issue was noted by Pace for vinyl acetate associated with analytical batch WG1188129 (analyzed on November 6, 2018). The vinyl acetate result is qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated vinyl acetate result (sample MW-300-102618) with a laboratory qualified (J0) result is estimated and qualified (J/UJ).**
- SDGs L1038864 and L1038867 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues were noted by Pace for multiple compounds associated with analytical batch WG1188131 (analyzed on October 29, 2018). These results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **All associated results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

## Method Blank Results

### *USEPA Method 8260C:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1038864 - Analytical batch WG1188129: Low levels of carbon disulfide, cis-1,2-dichloroethene, hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene are detected in the method blank. **Both hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene are detected below the RDL in sample MW-300-102618 and these results are qualified as not detected (U) due to method blank contamination. Sample MW-300-102618 result for cis-1,2-dichloroethene is detected above the RDL and qualified (J+) to indicate potential high bias due to method blank contamination.** Carbon disulfide is not detected in the associated sample and no action is required.
- SDG L1038864 - Analytical batch WG1191566: A low level of cis-1,2-dichloroethene is detected in the method blank below the RDL and in sample MW-139-102518. **The cis-1,2-dichloroethene sample MW-139-102518 result is qualified as not detected (U) due to method blank contamination. Sample MW-131-102518 result for cis-1,2-dichloroethene is detected above the RDL and qualified (J+) to indicate potential high bias due to method blank contamination.** Remaining results are significantly greater than the blank detection and no further action is taken with the following discussion:
  - Sample IW-MW-02-102618 (or W-MW-02-102618), was analyzed twice for cis-1,2-dichloroethene. Pace opted to report cis-1,2-dichloroethene result from October 29, 2018 (analytical batch WG1188131) therefore the sample result is not impacted by the contaminated blank associated with analytical batch WG1191566.
- SDG L1039305 - Analytical batch WG1188785: Low levels of hexachloro-1,3-butadiene, iodomethane, and 1,2,3-trichlorobenzene are detected in the method blank. **Idomethane (also referred to as methyl iodide) is detected at low levels (below the RDL) in samples MW-136-102918, MW-138-102918, and W-MW-01-102918 and these results are qualified as not detected (U) due to method blank contamination.** Hexachloro-1,3-butadiene and 1,2,3-trichlorobenzene are not detected in the associated samples and no action is required.

*NWTPH-Gx Method:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1038864 - Analytical batch WG1189237: Gasoline was detected at a low level in the method blank. Gasoline was also detected at low levels in associated samples IW-MW-02-102618 (or W-MW-02-102618), MW-151-102518, MW-131-102518, MW-139-102518, and MW-132-102518. **Sample MW-151-102518, MW-131-102518, MW-139-102518, and MW-132-102518 gasoline results were reported below the RDL and are qualified as not detected (U) due to method blank contamination. Sample MW-**

**300-102618 gasoline result is slightly above the RDL and qualified (J+) to indicate potential high bias.** For field duplicate samples IW-MW-02-102618 (or W-MW-02-102618) and MW-300-102618 please refer to the Field Duplicate Analyses for additional discussion on qualifiers. Remaining results are significantly greater than the blank detection and no further action is taken.

- SDG L1038867 - Analytical batch WG1189621: Gasoline was detected at a low level in the method blank. Gasoline was detected at low levels in associated samples MW-134-102518, MW-137-102618, and in the rinsate sample (Rinsate). **Sample MW-134-102518, MW-137-102618, and Rinsate gasoline results were reported below the RDL and are qualified as not detected (U) due to method blank contamination.** Remaining results are significantly greater than the blank detection and no further action is taken.
- SDG L1039305 - Analytical batch WG1190352: Gasoline was detected at a low level in the method blank. Gasoline was detected at low levels in associated samples MW-136-102918, MW-138-102918, and in the trip blank. **Sample MW-136-102918, MW-138-102918, and trip blank gasoline results were reported below the RDL and are qualified as not detected (U) due to method blank contamination.** Remaining results are significantly greater than the blank detection and no further action is taken.

### **Trip Blank Results**

*USEPA Method 8260C and NWTPH-Gx Method:*

Two trip blanks were collected and analyzed. The target analytes were not detected in the trip blanks at or above the RDLs with the following exceptions:

- SDG L1039305 - Analytical batch WG1188785: Low levels of acetone and iodomethane are detected in the trip blank. Low levels of acetone are detected in samples MW-136-102918, MW-138-102918, and W-MW-01-102918. **Sample MW-136-102918, MW-138-102918, and W-MW-01-102918 results for acetone are qualified as not detected (U) due to trip blank contamination.** No action is required for iodomethane as this compound is also detected in the associated method blank. Refer to the discussion under Method Blank for further details.

### **Field, Rinsate, or Equipment Blank Results**

A rinsate was collected and analyzed. The target analytes were not detected in the rinsate at or above the RDLs with the following exceptions:

- SDG L1038867: Low levels of gasoline, acetone, cis-1,2-dichloroethene, tetrachloroethene, toluene, and trichloroethene were detected in the rinsate sample (Rinsate) at levels above and below the RDL. Actions are as follows:
  - **Gasoline is detected in the associated method blank therefore the gasoline result in the Rinsate is qualified as not detected (U) due to method blank contamination.**

- Acetone is detected below the RDL in the rinsate and below the RDL in samples MW-104-102618 and MW-133-102618. **The low level acetone results in sample MW-104-102618 and MW-133-102618 are qualified as not detected (U) due to possible rinsate blank contamination.**
- cis-1,2-Dichloroethene is detected below the RDL in the rinsate and slightly above the RDL in sample MW-137-102618. **Sample MW-137-102618 cis-1,2-dichloroethene result is qualified (J+) to indicate potential high bias due to possible equipment blank contamination.**
- Tetrachloroethene is detected above the RDL in the Rinsate and above the RDL in samples MW-104-102618, MW-133-102618, and MW-137-102618. Tetrachloroethene detections are less than five times (5X) the blank contamination. **Sample MW-104-102618, MW-133-102618, and MW-137-102618 results for tetrachloroethene are estimated and qualified (J+) due to rinsate blank contamination.**
- Toluene is detected above the RDL in the Rinsate and above the RDL in sample MW-104-102618. **Sample MW-104-102618 result for toluene is estimated and qualified (J+) due to rinsate blank contamination.**
- Trichloroethene is detected below the RDL in the Rinsate. **Samples MW-104-102618 and MW-133-102618 are detected above the RDL and are estimated with high bias (J+) due to blank contamination. Sample MW-137-102618 is detected below the RDL and qualified as not detected (U) due to rinsate blank contamination.**

### **Field Duplicate Analyses**

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1038864: Sample IW-MW-02-102618 and MW-300-102618

VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% (for results >5X the RDL or absolute difference <1X the RL) for the field duplicate with the following exception:

- Gasoline results are not comparable due, in part, to method blank contamination. Sample MW-300-102618 is qualified (J+) due to method blank contamination. Sample IW-MW-02-102618 was initially qualified (U) due to method blank contamination and superseded with an estimated (UJ) qualifier due to precision data. **Field duplicate sample results for gasoline are estimated and qualified (J+/UJ) due to poor precision.**

### **Laboratory Duplicate Analyses**

*USEPA Method 8260C:*

A laboratory duplicate sample was not analyzed. Refer to the section on Laboratory Control Samples for additional details.

*NWTPH-Gx Method:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

**Surrogate Recoveries**

*USEPA Method 8260C:*

The surrogate recovery results for the samples, laboratory control samples, and blanks are within the laboratory surrogate control limits for all of the analyses.

*NWTPH-Gx Method:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and blanks are within the laboratory surrogate control limits for all of the analyses.

**Laboratory Control Samples**

*USEPA Method 8260C:*

Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) were analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters.

*NWTPH-Gx Method:*

The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

**Matrix Spike/Matrix Spike Duplicates**

*USEPA Method 8260C:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and field duplicate data for accuracy and precision data.

*NWTPH-Gx Method:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and field duplicate data for accuracy and precision data.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report.

### **Quantitation Limits**

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. The RDLs used for this sample group are acceptable for the project. Several samples were diluted due to elevated concentrations of various target analytes. Pace sample narrative notes indicate that for water samples MW-152-102618, MW-135-102518, MW-150-102518, and MW-149-102518 (SDG L1038864) the target compounds were too high to run the sample at a lower dilution. No action is taken other than to note that these results should be reviewed for unusual trends against the existing data set.

### **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## MEMORANDUM

**TO:** Project File **DATE:** January 21, 2019  
**FROM:** Jessie Compeau  
**SUBJECT:** Laboratory Data Validation Review  
**PROJECT:** American Linen Data Validation  
**PROJECT #:** 1413.001.05.601  
**TASK:** EIM Data Validation Level EPA2A for December 2018 - Groundwater Samples  
**LAB:** Pace Sample Delivery Groups L1053029, L1053394, L1053462, and L1053929

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Twenty-two (22) groundwater samples including one field duplicate, one equipment blank, and one trip blank were collected as Round 2 Interim Action Compliance Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, on December 12-14, and 17, 2018. The samples were shipped and delivered to PACE Lab Sciences (PACE) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020A.

Associated sample data are reported in four Pace SDGs (SDGs L1053029, L1053394, L1053462, and L1053929). The quality assurance review of the sample data are summarized below.

### DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with PACE control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).



## **DATA VALIDATION**

### **Completeness**

All samples were collected and analyzed as requested with the following discussions:

- SDG L1053394: Review of the COC and *PACE Lab Sciences Non-Conformance Form* shows that no analytical requests were made. PES clarified the sample analyses requests on December 14, 2018.
- SDG L1053462: Review of the chain of custody (COC) form and *PACE Lab Sciences Non-Conformance Form* shows a full suite of analytical requests for the Trip Blank. PES clarified that the Trip Blank should only be analyzed for VOCs and gasoline on December 15, 2018.

### **Sample Collection and Preservation**

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

### **Holding Times**

#### *USEPA Method 8260C:*

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

#### *NWTPH-Gx Method:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

#### *Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

#### *USEPA Method 6020A:*

All samples were analyzed within the USEPA recommended holding time for arsenic of 180 days for preserved waters from the date of sample collection. All holding time criteria were met.

#### *General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria were met.

## Initial and Continuing Calibration

Calibration data for this project are not required for this deliverable however PACE's notes indicate the following:

- SDG L1053462 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues were noted by PACE for 1,2,3-trichlorobenzene associated with analytical batch WG1211777 (analyzed on December 16, 2018). Associated sample (MW-151-121418 and MW-152-121418) results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample 1,2,3-trichlorobenzene results are estimated and qualified (UJ).**
- SDG L1053462 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues were noted by PACE for dichlorodifluoromethane, 2,2-dichloropropane, and trichlorofluoromethane associated with analytical batch WG1212450 (analyzed on December 18, 2018). Trip blank results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Trip blank results with laboratory qualified (J0) results are estimated and qualified (J/UJ) but the qualifiers do not impact associated sample results.**

## Method Blank Results

### *USEPA Method 8260C:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1053462 - Analytical batch WG1211777: Low levels of naphthalene and 1,2,4-trimethylbenzene are detected in the method blank. No action was necessary for naphthalene as it was not detected in the associated samples. **Compound 1,2,4-trimethylbenzene was detected below the RDL (at a dilution) in sample MW-152-121418 and is considered non-detected (U) due to blank contamination.**

### *NWTPH-Gx Method:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exception:

- SDG L1053929 - Analytical batch WG1213027: Gasoline is detected at a low level (below the RDL) in the method blank. No action was taken since gasoline is not detected in sample MW-138-121718 and is detected significantly greater than the RDL in sample MW-130-121718.

### *Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

### *USEPA Method 6020A:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1053029 - Analytical batch WG1211333: Iron was detected at a low level (below the RDL) in the method blank. **Sample MW-132-121318 iron result is estimated with high bias (J+) due to blank contamination.**

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the RDLs with the following exceptions:

- SDG L1053029 - Analytical batch WG1212038: Alkalinity was detected at a low level in the method blank. No action was necessary as alkalinity detections in the associated samples are far greater than the detection in the method blank.
- SDGs L1053029 and L1053462 - Analytical batch WG1211292: Chloride was detected at a low level in the method blank. No action was necessary as chloride detections in the associated samples are far greater than the detection in the method blank.
- SDGs L1053462 and L1053929 - Analytical batch WG1213167: Alkalinity was detected at a low level in the method blank. No action was necessary as alkalinity detections in the associated samples are far greater than the detection in the method blank.
- SDG L1053929 - Analytical batch WG1218013: Total organic carbon (TOC) was detected at a low level in the method blank. No action was necessary as the TOC detection in the associated sample is are far greater than the detection in the method blank.

### **Trip Blank Results**

*USEPA Method 8260C:*

One trip blank was collected and analyzed (refer to SDG L1053462) for VOCs. The target analytes were not detected in the trip blank at or above the RDLs.

### **Field, Rinsate, or Equipment Blank Results**

*USEPA Method 8260C and NWTPH-Gx Method:*

An equipment blank sample (EQ-121218) was collected on December 12, 2018 from the bladder pump (refer to [SDG L1053029](#)). Samples from monitoring wells MW-133, MW-141, MW-134 were collected using the bladder pump on December 12, 2018 (refer to [SDG L1053394](#)). The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

- SDG L1053394 - Analytical batch WG1212222: A low level of acetone (below the RDL) was detected in the equipment blank. **Sample MW-133-121218 and MW-141-121218**

**acetone detections are less than the RDL and are qualified (U) as not detected due to equipment blank contamination.**

### **Field Duplicate Analyses**

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- PACE SDG L1053029: Samples MW-149-121318 and MW-904-121318

VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair.

### **Laboratory Duplicate Analyses**

#### *USEPA Method 8260C:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *NWTPH-Gx Method:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

#### *USEPA Method 6020A:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits.

### **Surrogate Recoveries**

#### *USEPA Method 8260C:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exceptions:

- SDG L1053462 - Analytical batch WG1211777 on December 16, 2018: Surrogate 4-bromofluorobenzene was recovered at 137% and above laboratory control limit criteria in sample MW-152-121418. **All positively detected sample MW-152-121418 results (December 16, 2018) are estimated with potential high bias (J+) due to elevated surrogate recovery with the exception of 1,2,4-trimethylbenzene which is qualified as not detected due to blank contamination.** Refer to the section on Method Blank Results for further discussion.

*NWTPH-Gx Method:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all the analyses.

**Laboratory Control Samples**

*USEPA Method 8260C:*

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS % Rs or LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions and exceptions:

- SDG L1053462- Analytical batch WG1211777: LCS/LCSD recoveries and RPDs are within criteria except for bromobenzene and 4-chlorotoluene which are above control limit criteria and laboratory qualified (J4). No action is required since these compounds were not detected in the associated samples. LCS/LCSD sec-butylbenzene recoveries were within but are recovered wide and laboratory qualified (J3). No action was taken since sec-butylbenzene recoveries are within laboratory control limit criteria.

*NWTPH-Gx Method:*

The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

*USEPA Method 6020A:*

The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

**Matrix Spike/Matrix Spike Duplicates**

*USEPA Method 8260C:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

*NWTPH-Gx Method:*

MS/MSD analyses were performed on non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters with the following exceptions:

- SDGs L1053029 and L1053394 - Analytical batch WG1211498: MS/MSD was performed on sample MW-136-121318 (SDG L1053029). MS/MSD gasoline spike recoveries were within laboratory QC acceptance criteria but recovered wide and laboratory qualified (J3). No action was taken, and no qualification is applied since MS/MSD gasoline recoveries are within laboratory control limit criteria.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data.

*USEPA Method 6020A:*

MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1053029 - Analytical batch WG1211321: MS/MSD was performed on sample MW-135-121318. Sample MW-135-121318 manganese concentration was greater than four times the spike concentration and qualified (V) by the laboratory. Per National Functional Guidelines, no qualification is necessary.
- SDG L1053462 - Analytical batch WG1212648: MS/MSD was performed on sample MW-152-121418. Sample MW-152-121418 manganese concentration was greater than four times the spike concentration and qualified (V) by the laboratory. Per National Functional Guidelines, no qualification is necessary.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exceptions:

- SDG L1053029 - Analytical batch WG1216768: MS/MSD was performed on sample MW-149-121318. Sample MW-149-121318 TOC MS/MSD results are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that duplicate and LCS results are within criteria.

- SDG L1053462- Analytical batch WG1211292: One MS was performed on a non-client sample within the analytical batch. Nitrate recovery is above QC criteria and laboratory qualified (J5) to indicate that the spike was recovered high due to matrix effect. No action is taken since the spike was performed on a non-client sample. Refer to LCS and laboratory duplicate data for accuracy and precision results.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- SDGs L1053029, L1053462, and L1053929: Selected sample narratives for alkalinity results indicate that several sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.
- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

**Quantitation Limits**

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that PACE sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for seven (including a field duplicate) samples:

SDG Number	Laboratory Identification	Client Sample Identification
L1053029	L1053029-01	MW-150-121218
L1053029	L1053029-07	MW-149-121318
L1053029	L1053029-08	MW-132-121318
L1053029	L1053029-09	MW-904-121318
L1053029	L1053029-10	MW-135-121318
L1053462	L1053462-04	MW-152-121418
L1053929	L1053929-02	MW-130-121718

- SDG L1053394: Sample W-MW-02-121218 was analyzed for gasoline at the lowest possible dilution factor (five-fold) due to sample foaming observed during laboratory analysis. Gasoline was not detected in the sample. **Sample W-MW-02-121218 gasoline result is estimated and qualified (UJ) due to the unexplained sample foaming.** Future sampling rounds at this location may include collection of sample for gasoline analysis in both preserved and unpreserved vials.

**Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.



## MEMORANDUM

**TO:** Project File **DATE:** March 26, 2019

**FROM:** Jessie Compeau

**SUBJECT:** Laboratory Data Validation Review

**PROJECT:** American Linen Data Validation

**PROJECT #:** 1413.001.05.601

**TASK:** EIM Data Validation Level EPA2A for December 2018 through February 2019 - Groundwater Samples

**LAB:** Pace Sample Delivery Groups (SDGs): L1055718, L1057965, L1063581, L1063697, L1064133, L1064711, L1064837, L1065152, L1065595, L1066228, and L1068057

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Fifty-eight (58) groundwater samples including two field duplicates, two (2) equipment blanks, and eleven (11) trip blanks were collected as Round 3 Interim Action Compliance Monitoring sampling event at the Former American Linen Supply Site, in Seattle, Washington, on December 21, 2018 to February 7, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C;
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology;
- VOCs by EPA SOP RSK 175;
- Alkalinity by Method 2320 B-2011;
- Anions (Chloride, Nitrate, and Sulfate) by USEPA Method 9056A;
- Total Organic Carbon (TOC) by USEPA Method 9060A; and
- Metals (iron and manganese) by USEPA Method 6020A.

The sampling event is ongoing and associated groundwater sample data are reported in eleven Pace SDGs (L1055718, L1057965, L1063581, L1063697, L1064133, L1064711, L1064837, L1065152, L1065595, L1066228, and L1068057). The quality assurance review of the sample data is summarized below.

### DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017) and USEPA Contract Laboratory

Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

## **DATA VALIDATION**

### **Completeness**

All samples were collected and analyzed as requested with the following discussions:

- SDG L1055718: Review of the chain of custody (COC) form shows that no analytical request was made for the Trip Blank. The Trip Blank was analyzed for VOCs though no communications are included. No action was taken other than to note this.
- SDG L1063581: Review of the COC form shows that the Trip Blank was not listed. On January 22, 2019 PES contacted Pace with a corrected copy of the COC which included the Trip Blank and request for analysis. A copy of PES's email communication is included in the laboratory report.
- SDG L1065595: Review of the COC form and email communications between Pace and PES indicate that per client request sample MW-149-013019 (SDG L1065595-07) should not be analyzed. PES email shows sample MW-~~14~~-013019 instead of sample MW-~~149~~-013019 but no action is necessary since the correct Pace number (SDG L1065595-07) was referenced.

### **Sample Collection and Preservation**

Samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. Samples were received in good condition. No data were qualified based upon the sample collection and preservation information.

### **Holding Times**

#### *USEPA Method 8260C:*

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for preserved waters from the date of collection. All holding time criteria were met.

#### *NWTPH-Gx Method:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

#### *Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

All samples were analyzed within the WA State recommended holding time of fourteen days for preserved waters from the date of sample collection. All holding time criteria were met.

*USEPA Method 6020A:*

All samples were analyzed within the USEPA recommended holding time for arsenic of 180 days for preserved waters from the date of sample collection. All holding time criteria were met.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

All samples were analyzed within the USEPA recommended holding time for alkalinity (14 days), chloride (28 days), sulfate (28 days), and nitrate (48 hours), and TOC (28 days) for preserved waters from the date of sample collection. All holding time criteria were met with the following exception:

- SDG L1064711: Nitrate was analyzed two days past the recommended holding time. **Nitrate results for samples MW-160-012519, W-MW-02-012519, MW-161-012519, and W-MW-01-012519 are estimated and qualified (U/J) due to a holding time exceedance.**

**Initial and Continuing Calibration**

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- SDG L1057965 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issue is noted by Pace for trans-1,4-dichloro-2-butene associated with analytical batch WG1219077 (analyzed on January 4, 2019). Associated sample results for this compound are qualified by the laboratory "J0" to indicate that percent difference CCV is outside of laboratory acceptance criteria. **Associated sample trans-1,4-dichloro-2-butene results are estimated and qualified (U/J).**
- SDG L1064133 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues are noted by Pace for acetone, trans-1,4-dichloro-2-butene, and 1,2,3-trimethylbenzene associated with analytical batches WG1228529 and WG1229442 (analyzed on January 25 and 28, 2019). Associated sample results for these compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results for these compounds are estimated and qualified (U/J).**
- SDG L1064711 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues were noted by Pace for 1,1,2,2-tetrachloroethane and vinyl acetate associated with, respectively, analytical batches WG1229314 and WG1229419 (both analyzed on January 28, 2018). Associated sample results are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**
- SDG L1065595 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues were noted by PACE for multiple compounds associated with analytical batch WG1231554 (analyzed on February 1, 2019). Associated sample results for this

compound are qualified by the laboratory “J0” to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results for these compounds are estimated and qualified (UJ/J).**

### **Method Blank Results**

#### *USEPA Method 8260C:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1055718 - Analytical batch WG1215942: Low levels of naphthalene and 1,2,4-trimethylbenzene are detected in the method blank. No action was necessary since these compounds are not detected in the associated sample (MW-112-122118). A low level of naphthalene was detected in the Trip Blank. Refer to the Trip Blank section for more discussion.
- SDG L1057965 - Analytical batch WG1219077: A low level of naphthalene is detected in the method blank. No action was necessary since naphthalene is not detected in the associated sample.
- SDGs L1063581 and L1063697 - Analytical batch WG1227840: A low level of naphthalene is detected in the method blank. No action was necessary since naphthalene is not detected in the associated samples.
- SDG L1063697 - Analytical batch WG1228162: Low levels of cis-1,2-dichloroethene, hexachloro-1,3-butadiene, naphthalene, and 1,2,3-trichlorobenzene are detected in the method blank. Associated results are not qualified for the following reasons:
  - No action is necessary for hexachloro-1,3-butadiene, naphthalene, and 1,2,3-trichlorobenzene since these compounds are not detected in the associated samples.
  - No action is taken for the cis-1,2-dichloroethene detection in sample MW-905-012319 as the result is far greater than the detection in the associated blank.
  - No action was taken for cis-1,2-dichloroethene detection in the associated QC sample (Trip Blank) as it is not required.
- SDG L1064133 - Analytical batch WG1228529: A low level of naphthalene is detected in the method blank. No action was necessary since naphthalene is not detected in the associated samples.
- SDG L1064837 - Analytical batch WG1229700: A low level of chloroform is detected in the method blank. No action was necessary since this compound is not detected in the associated samples.

- SDGs L1065152 and L1065595 - Analytical batch WG1231554: Low levels of chloroform and hexachloro-1,3-butadiene are detected in the method blank. No action was necessary since these compounds are not detected in the associated samples.
- SDG L1066228 - Analytical batch WG1231972: A low level of tetrachloroethene is detected in the method blank. No action was necessary since this compound is either detected above the detection in the blank or not detected in the associated samples.
- SDG L1068057 – Analytical batch WG1234600: A low level of hexachloro-1,3-butadiene is detected in the method blank. No action was necessary since this compound is either detected above the detection in the blank or not detected in the associated samples.

*NWTPH-Gx Method:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs with the following exception:

- SDG L1064837 - Analytical batch WG1230033: Gasoline is detected at a low level (below the RDL) in the method blank. No action was taken since gasoline is not detected in associated samples.
- SDG L1066228 - Analytical batches WG1231937, WG1234228, and WG1234465: Gasoline is detected at a low level (below the RDL) in the method blanks. **Gasoline results in samples MW-121-013119, MW-137-020119, MW-136-020119, and MW-133-020119 are detected below the RDL are qualified (U) as non-detects due to blank contamination.**
- SDG L1068057 – Analytical batch WG1234480: Gasoline is detected at a low level (below the RDL) in the method blank. No action was taken since gasoline is detected at a level significantly greater than the associated sample.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (dissolved gases) are not detected in the method blanks at or above the RDLs.

*USEPA Method 6020A and General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were detected in the method blanks below the RDLs. Per Guidance, no action is taken for blank detections less than the RDL when associated sample detections are greater than the RDL.

SDG	Batch	Method	Analyte	Result	Qualifier	MRL	Units	Associated Result(s) Qualified
L1055718	WG1218198	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3390	J	20000	ug/L	NO
L1055718	WG1218534	9060A	TOC	141	J	1000	ug/L	NO
L1057965	WG1220272	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	4960	J	20000	ug/L	NO
L1057965	WG1220033	9060A	TOC	156	J	1000	ug/L	NO
L1063581	WG1228020	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	2880	J	20000	ug/L	NO
L1063581	WG1227775	9060A	TOC	258	J	1000	ug/L	NO
L1063581	WG1229248	9060A	TOC	222	J	1000	ug/L	NO
L1063581	WG1227051	6020B	Iron	17.4	J	100	ug/L	NO
L1063697	WG1229337	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	7300	J	20000	ug/L	NO
L1063697	WG1229248	9060A	TOC	222	J	1000	ug/L	NO
L1064133	WG1228505	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3070	J	20000	ug/L	NO
L1064133	WG1229248	9060A	TOC	222	J	1000	ug/L	NO
L1064133	WG1228813	6020B	Iron	22.2	J	100	ug/L	NO
L1064711	WG1229541	9060A	TOC	196	J	1000	ug/L	NO
L1064711	WG1228505	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3070	J	20000	ug/L	NO
L1064711	WG1229248	9060A	TOC	222	J	1000	ug/L	NO
L1064837	WG1230036	6020B	Iron	83.1	J	100	ug/L	NO
L1064837	WG1230036	6020B	Manganese	0.650	J	5.00	ug/L	NO
L1064837	WG1229541	9060A	TOC	196	J	1000	ug/L	NO
L1064837	WG1230371	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	4270	J	20000	ug/L	NO
L1065152	WG1230357	9060A	TOC	232	J	1000	ug/L	NO
L1065152	WG1231115	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3150	J	20000	ug/L	NO
L1065595	WG1230357	9060A	TOC	232	J	1000	ug/L	NO
L1066228	WG1233465	SM2320B	Alkalinity as CaCO <sub>3</sub> , Total	3040	J	20000	ug/L	NO
L1066228	WG1231328	9060A	TOC	133	J	1000	ug/L	NO
L1068057	WG1234334	9060A	TOC	133	J	1000	ug/L	NO
L1068057	WG1235757	6020B	Iron	28.3	J	100	ug/L	NO

## **Trip Blank Results**

### *USEPA Method 8260C and NWTPH-Gx:*

Eleven trip blanks were collected and submitted for analysis. The target analytes were not detected in the trip blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1055718 - Analytical batch WG1215942: Low levels of benzene, naphthalene and trichloroethene are detected in the trip blank. No action was necessary as these compounds are not detected in the associated sample.
- SDG L1064711 – Analytical batch WG1229314: Low levels of acetone and naphthalene are detected in the trip blank. No action was necessary as these compounds were not detected in the associated samples.

- SDG L1063697 - Analytical batch WG1228162: Low levels of cis-1,2-dichloroethene and toluene are detected in the trip blank. No action is taken for cis-1,2-dichloroethene or toluene since associated sample concentrations are either greater than the RDL or not detected.
- SDG L1064133 - Analytical batch WG1228529: A low level of toluene is detected in the trip blank. No action was necessary as this compound was not detected in the associated samples.
- SDG L1065152: Analytical batch WG1231554: Toluene is detected in the trip blank at 1.29 ug/L and greater than the RDL of 0.500 ug/L. Toluene was detected at 0.516 ug/L in sample MW-131-012919. **Per Guidance, professional judgement was used and the toluene detection in sample MW-131-012919 is qualified with high bias (J+) due to trip blank contamination.**
- SDG L1064837 - Analytical batch WG1230033: Gasoline is detected at a low level (below the RDL) in the trip blank. No action was necessary as this compound was not detected in the associated samples.
- SDG L1064837 - Analytical batch WG1229700: Acetone and toluene are detected at a low level (below the RDL) in the trip blank. **Associated acetone detections in samples MW-142-012819, MW-906-012819, MW-139-012819, and MW-134-012819 are qualified as not detected (U).** No action was needed for toluene since it was not detected in the associated samples.
- SDG L1065595: Analytical batch WG1231554: Toluene is detected in the trip blank at 0.700 ug/L and greater than the RDL of 0.500 ug/L. Toluene was detected at 0.715 ug/L a similar level in sample MW-107-013019. **Per Guidance, professional judgement was used and the toluene detection in sample MW-107-013019 is estimated with high bias (J+) due to trip blank contamination.**
- SDG L1066228 - Analytical batch WG1231972: Toluene and trichloroethene are detected in the trip blank at low levels above and below respective RDLs. **Trichloroethene was detected in sample MW-136-020119 below the RDL and is estimated and qualified (U) as not detected. Toluene is detected in samples MW-130-013119, MW-152-013119, and MW-135-013119. Toluene results for these samples are estimated with high bias (J+) due to trip blank contamination.**
- SDG L1068057 – Analytical batch WG1234600: 1,2,4-Trimethylbenzene is detected at a low level (below the RDL) in the trip blank. No action was necessary as this compound is not detected in the associated sample.

### **Field, Rinsate, or Equipment Blank Results**

#### *All Analytical Methods:*

Two equipment blanks (EQ-012319 and EQ-013019) were collected and analyzed for VOCs, gasoline, dissolved gases (methane, ethane, and ethene), wet chemistry parameters (alkalinity,

chloride, nitrate, sulfate, and TOC), and metals (iron and manganese). Review of the two equipment blank results are as follows:

SDG L1063697: Equipment blank sample (EQ-012319) was collected on January 23, 2019 from the bladder pump and is associated with samples MW-148-012319 and MW-105-012319. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

- Low levels of acetone and chloroform (below the RDL) are detected in the equipment blank. No action was needed for chloroform as it was not detected in the associated samples. **Sample MW-148-012319 and MW-105-012319 acetone detections are less than the RDL and are qualified (U) as not detected due to equipment blank contamination.** Low levels of alkalinity, chloride, nitrate, TOC, iron and manganese were also detected in the equipment blank. No action was taken on this basis since associated detections in sample MW-105-012319 are either above the RDL or not detected.

SDG L1065595: Equipment blank sample (EQ-013019) was collected on January 30, 2019 from the bladder pump and is associated with samples MW-116-013019 and MW-141-013019. The target analytes were not detected in the equipment blank at or above the RDLs with the following exceptions:

- Low levels of bromodichloromethane and chloroform are detected (below the RDL) in the equipment blank. No action was needed for these compounds as these were not detected in the associated samples. Low levels of alkalinity, chloride, nitrate, TOC, iron and manganese were also detected in the equipment blank. No action was taken on this basis since remaining parameters were not analyzed for in associated samples MW-116-013019 and MW-141-013019.

### **Field Duplicate Analyses**

Field duplicate pairs were submitted and analyzed. Field duplicate sample pair is as follows:

- SDG L1063697: Samples MW-110-012319 and MW-905-012319
- SDG L1064837: Samples MW-142-012819 and MW-906-012819

VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% for the field duplicate pair.

### **Laboratory Duplicate Analyses**

*USEPA Method 8260C:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.



*NWTPH-Gx Method:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for dissolved gas analyses are within the laboratory control limit of 20%.

*USEPA Method 6020A:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

A laboratory duplicate sample was performed on client samples and on non-client samples. The primary/duplicate RPDs for general chemistry parameters are within the laboratory control limits.

### **Surrogate Recoveries**

*USEPA Method 8260C:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all the analyses with the following exception:

- L1066228: Sample MW-135-013119 surrogate (toluene-d8) recovery (analytical batch WG1231972) is above laboratory control limit criteria. All associated positively detected results associated with analytical batch WG1231972 are estimated and qualified (J) due to the elevated surrogate recovery. Refer to sections on Trip Blank and Other Quality Control Issues for additional information on the toluene and 1,1-dichloroethene.

*NWTPH-Gx Method:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blank, and the method blanks are within the laboratory surrogate control limits for all analyses.

### **Laboratory Control Samples**

*USEPA Method 8260C:*

Laboratory control sample/laboratory control sample duplicate (LCS/LCSD) or laboratory control sample (LCS) were analyzed by USEPA Method 8260C method. The LCS %Rs or

LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for waters with the following discussions and exceptions:

- SDG L1063697 - Analytical batch WG1228162: LCS/LCSD recoveries for acetone are above control limit criteria and laboratory qualified (J4). No action is required since this compound is not detected in the associated sample (MW-905-012319). Acetone was detected at a low level in the equipment blank (EQ-12319). For further discussion refer to the section under the Field, Rinsate, or Equipment Blank Results.
- SDG L1064133 - Analytical batch WG1228529: LCS/LCSD recoveries for 1,2,3-trimethylbenzene are below control limit criteria and laboratory qualified (J4). **All associated sample results for 1,2,3-trimethylbenzene are already estimated and qualified (UJ/J) due to poor CCV recoveries with one exception. Sample MW-157-012419 1,2,3-trimethylbenzene result is estimated and qualified (UJ) due to low LCS/LCSD recoveries.**
- SDGs L1065152 and L1065595 - Analytical batch WG1231554: LCS/LCSD recoveries for 1,2,3-trimethylbenzene are below control limit criteria and laboratory qualified (J4). All associated sample results for 1,2,3-trimethylbenzene are already estimated and qualified (UJ/J) due to poor CCV recoveries. No further action is required.
- SDG L1068057 – Analytical batch WG1234600: LCS/LCSD recoveries for acetone and iodomethane (methyl iodide) are within criteria but were recovered wide and qualified (J3) by the laboratory. No action is taken since LCS/LCSD recoveries are within.

*NWTPH-Gx Method:*

The LCS/LCSD %Rs and RPDs for the target compound (gasoline) are within the laboratory control criteria for waters.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

The LCS/LCSD %Rs and RPDs for the target compound (dissolved gases) are within the laboratory control criteria for waters.

*USEPA Method 6020A:*

The LCS/LCSD %Rs and RPDs for the target compound (iron and manganese) are within the laboratory control criteria for waters.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

The LCS or LCS/LCSD %Rs and RPDs for general chemistry parameters are within the laboratory control criteria for waters.

**Matrix Spike/Matrix Spike Duplicates**

*USEPA Method 8260C:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD and/or field duplicate data for accuracy and precision data.

*NWTPH-Gx Method:*

MS/MSD analyses were performed on client or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD for accuracy and precision data. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for waters.

*Dissolved Gases (Methane, Ethane, and Ethene) by RSK 175:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data.

*USEPA Method 6020A:*

MS/MSD analyses were performed on client and non-client samples within the analytical batches. The MS/MSD % Rs and RPD were acceptable and within laboratory control limit criteria for water samples.

*General Chemistry (Alkalinity, Chloride, Sulfate, Nitrate, and TOC):*

MS/MSD analyses were performed on client and/or non-client samples within the analytical batches. In cases where MS/MSD spike analyses are not performed refer to LCS/LCSD or laboratory duplicate data for accuracy and precision data. The MS/MSD % Rs and RPDs are acceptable and within laboratory control limit criteria for water samples with the following exception:

- SDG L1064711 - Analytical batch WG1229560: MS/MSD was performed on sample W-MW-01-012519. Sample W-MW-01-012519 sulfate MS/MSD results are qualified (E) by the laboratory to indicate that the spiked analyte concentration exceeded the upper calibration range. No action was taken other than to note that duplicate and LCS results are within criteria and that the sample concentration is within the calibration range.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussion:

- SDG L1063697: A serial dilution was performed on sample BB-8-012319 and acceptance criteria were not met (laboratory qualified O1). Sample BB-8-012319 manganese result is estimated and qualified (J) due to the poor serial dilution result.
- SDG L1066228 - Analytical batch WG1231972: Sample MW-135-013119 1,1-dichloroethene results are qualified (E) by the laboratory to indicate that reported result exceeded the upper calibration range. **Sample MW-135-013119 1,1-dichloroethene is estimated and qualified (J) because the result is greater than the upper calibration range.**
- Multiple SDGs: Sample narratives for certain alkalinity results indicate that sample containers had some headspace and exposure to air may have impacted the reported results. No action was taken other than to note this.

- Electronic data deliverables (EDDs) for these SDGs were provided by the laboratory and data validator qualifiers were entered. In some cases, different chemical synonyms are used between the EDD and the hardcopy however associated Chemical Abstracts Service (CAS) numbers are provided in the EDD to confirm chemical identifications.

### **Compound Identification and Quantitation Limits**

PES requested additional supporting data from Pace on select sample results due to high gasoline range organic results which coincide with elevated chlorinated VOC results greater than the RDL in fifteen samples. Per Pace, certain chlorinated VOC compounds (including cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, and trichloroethene) elute within the gasoline retention time range, are considered gasoline range organics due to the elution time, and therefore likely contribute to the gasoline range organic result. Chromatograms were reviewed by Pace and PES to compare gasoline patterns with sample results. Based on this review no discernible gasoline patterns were reported. **All gasoline range organic results above the RDL are qualified as estimated with possible high bias (J+).** Qualified samples are as follows:

Sample Identification	Laboratory Identification	Result Parameter Name	Result Value (µg/L)	Qualified Result	Sample Chromatogram matches Gasoline Standard?
MW-107-013019	L1065595-01	Gasoline Range Organics	663	J+	No discernable gasoline pattern
MW-149-012919	L1065152-03	Gasoline Range Organics	14400	J+	No discernable gasoline pattern
MW-150-012919	L1065152-05	Gasoline Range Organics	11900	J+	No discernable gasoline pattern
MW-120-012419	L1064133-05	Gasoline Range Organics	105	J+	No discernable gasoline pattern
MW-156-012419	L1064133-04	Gasoline Range Organics	1480	J+	No discernable gasoline pattern
MW-157-012419	L1064133-03	Gasoline Range Organics	1870	J+	No discernable gasoline pattern
MW-146-012219	L1063581-09	Gasoline Range Organics	509	J+	No discernable gasoline pattern
MW-147-012219	L1063581-08	Gasoline Range Organics	663	J+	No discernable gasoline pattern
MW-130-013119	L1066228-01	Gasoline Range Organics	22400	J+	No discernable gasoline pattern
MW-152-013119	L1066228-02	Gasoline Range Organics	44300	J+	No discernable gasoline pattern
MW-135-013119	L1066228-05	Gasoline Range Organics	42700	J+	No discernable gasoline pattern
MW-113-020719	L1068057-01	Gasoline Range Organics	3100	J+	No discernable gasoline pattern

SDG L1066228: Three sample results (MW-151-013119, MW-132-013119, and MW-104-02119) and associated chromatograms were overlooked during the review. **Based on the gasoline and chlorinated VOC results these sample results are estimated with possible high bias (J+) due to the possible contribution of chlorinated VOCs within the elution range.**

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that Pace sample narrative notes indicate that VOC target compounds were too high to run at lower dilution for seven (including a field duplicate) samples.

## **Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017); and
- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.

## MEMORANDUM

**TO:** Project File **DATE:** April 8, 2019  
**FROM:** Jessie Compeau  
**SUBJECT:** Laboratory Data Validation Review  
**PROJECT:** American Linen Data Validation  
**PROJECT #:** 1413.001.05.601  
**TASK:** EIM Data Validation Level EPA2A for February 2019 – Soil and Soil Vapor Samples  
**LAB:** Pace Sample Delivery Groups L1970864, L1070990, and L1072936

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Thirty-six (36) soil samples including one (1) field duplicate, and one (1) trip blank were collected as part of a sampling event at the Former American Linen Supply Site, in Seattle, Washington, on February 6, 13, 14, 19, 20, and 21, 2019. The samples were shipped and delivered to Pace Lab Sciences (Pace) of Mount Juliet, TN for laboratory analysis. Selected samples were analyzed for the following:

- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C (soil samples);
- Volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method TO-15 (soil vapor samples);
- Total petroleum hydrocarbons as gasoline (TPH-Gx) by NWTPH-Gx per analytical method stipulated by Washington State Department of Ecology; and
- Total Solids by Standard Methods 2540 G-2011.

This sampling event extended from December 2018 through February 2019 and results by Pace and Fremont Analytical of Seattle, Washington. Associated soil sample data are reported in three Pace SDGs (L1970864, L1070990, and L1072936). The quality assurance review of the sample results are summarized below.

### DATA QUALIFICATIONS

Guidelines established by USEPA for a limited data validation review of analytical data along with Pace control limit criteria were used to validate the data. The comments presented in this memorandum refer to the laboratory's performance in meeting the quality control criteria outlined in the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017). Following Guidelines, non-project-specific laboratory duplicates and matrix spike results were not evaluated as part of this data validation.

## **DATA VALIDATION**

### **Completeness**

All samples were collected and analyzed as requested.

### **Sample Collection and Preservation**

The laboratory supplied Summa Canisters™ (1-Liter) for the soil vapor samples. The samples were shipped, delivered by FedEx, and received in good condition by the laboratory. The samples were collected, handled, and delivered in an appropriate manner.

Soil samples were collected in laboratory-supplied sample containers preserved as appropriate for the individual analyses conducted. The samples were packed on ice in coolers and delivered by courier to the analytical laboratory. The laboratory reported that the coolers were received at a cooler temperature less than the recommended temperature preservation less than 6°C. No data were qualified based upon the sample collection and preservation information.

### **Holding Times**

#### *USEPA Method 8260C:*

All samples were analyzed for VOCs within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

#### *USEPA Method TO-15:*

The analyses for VOCs was performed within the 30-day recommended holding time limit for the air samples collected in the Summa canisters. No data was qualified based upon holding times.

#### *NWTPH-Gx:*

All samples were analyzed for gasoline within the EPA recommended holding time of fourteen days for soils from the date of collection. All holding time criteria were met.

#### *Total Solids by SM 2540 G 2011:*

Samples were analyzed within the USEPA recommended holding time of seven days for total solids.

### **Initial and Continuing Calibration**

Calibration data for this project are not required for this deliverable however Pace's notes indicate the following:

- SDG L1072936 - *USEPA Method 8260C*: Continuing calibration verification (CCV) issues were noted by Pace for methyl tert-butyl ether associated with analytical batch WG1241792 (analyzed on February 26, 2019). The compounds are qualified by the laboratory "J0" to indicate that percent difference CCVs are outside of laboratory acceptance criteria. **Associated sample results with laboratory qualified (J0) results are estimated and qualified (J/UJ).**

## Method Blank Results

### *USEPA Method 8260C:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes were not detected in the method blanks at or above the reporting detection limits (RDLs) with the following exceptions:

- SDG L1070864 - Analytical batch WG1238391: A low level of methylene chloride is detected in the method blank. No action is required since methylene chloride is not detected in the associated samples.
- SDG L1070864 - Analytical batch WG1239738: Low levels of n-hexane and methylene chloride are detected in the method blank. No action is required since n-hexane and methylene chloride are not detected in the associated sample (B-932-50).
- SDG L1072936 Analytical batch WG1239738: A low level of naphthalene is detected in the method blank. No action is required since Naphthalene is not detected in the associated Trip Blank.
- SDG L1072936 Analytical batch WG1241792: A low level of n-hexane is detected in the method blank. **Sample B6D6-17, B6D6-32, B6D6-35, B6D6-40, B6D6-45, B6D6-50, B-933-50, B10D10-15, B10D10-20, B10D10-30, B10D10-40, and B10D10-50 n-hexane results are qualified as non-detect (U).**

### *USEPA Method TO-15:*

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the reporting detection limits (RDLs).

### *NWTPH-Gx Method:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analyte (gasoline) was not detected in the method blanks at or above the RDLs.

### *Total Solids by SM 2540 G 2011:*

Laboratory method blanks were included with the analytical batches per method requirement. The target analytes (% solids) are either not detected or not detected at a significant level in the method blanks and sample results are not impacted.

## Trip Blank Results

### *USEPA Method 8260C and NWTPH-Gx:*

Three trip blanks were collected and analyzed for VOCs and in some cases for gasoline by NWTPH-Gx. The target analytes were not detected in the trip blank at or above the RDLs with the following exception:



- SDG L1072936 Analytical batch WG1241720: A low level of acetone is detected in the trip blank. No action is taken since acetone is not detected in the associated samples.

### **Field, Rinsate, or Equipment Blank Results**

Field, rinsate, or equipment blanks were not collected.

### **Field Duplicate Analyses**

Field duplicate sample pairs are as follows:

- SDG L1070864: Samples B5D5-50 and B-932-50

Field duplicate pair was submitted and analyzed for VOCs. VOC target analyte results are comparable and within a relative percent difference (RPD) of 30% or absolute difference <2X RDL (for results <5X the RDL) for the field duplicates.

### **Laboratory Duplicate Analyses**

#### *USEPA Method 8260C:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *USEPA Method TO-15:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *NWTPH-Gx Method:*

A laboratory duplicate sample was not analyzed. Refer to laboratory control sample/sample duplicate (LCS/LCSD) or matrix spike/matrix spike duplicates (MS/MSDs) results for precision data.

#### *Total Solids by SM 2540 G 2011:*

Laboratory duplicate sample analyses were performed on client and non-client samples within the analytical batches. The primary/duplicate RPDs for total solids analyses are within the laboratory control limit of 10%.

### **Surrogate Recoveries**

#### *USEPA Method 8260C:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, trip blanks, and the method blanks are within the laboratory surrogate control limits for all the analyses.

*USEPA Method TO-15:*

The surrogate recovery results for the samples, laboratory control samples, and the method blanks are within the laboratory surrogate control limits for all the analyses

*NWTPH-Gx Method:*

The surrogate recovery results for the samples, laboratory control samples, matrix spike samples, and the method blank are within the laboratory surrogate control limits for all the analyses.

**Laboratory Control Samples**

*USEPA Method 8260C:*

LCS/LCSD was analyzed by USEPA Method 8260C method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for soils with the following discussions and exceptions:

- SDG L1072936 - Analytical batch - WG1241720: LCS recovery for dibromomethane is above control limit criteria and laboratory qualified (J4). **The dibromomethane result is qualified as not detected (U) and the laboratory qualifier (J4) is removed since this compound is not detected in the associated Trip Blank.**
- SDG L1072936 - Analytical batch - WG1241792: LCS recovery for bromomethane is above control limit criteria and laboratory qualified (J4). **The bromomethane result is qualified as not detected (U) and the laboratory qualifier (J4) is removed since this compound is not detected in the associated samples.**
- SDG L1072936 - Analytical batch - WG1241792: LCS recovery for styrene is below control limit criteria and laboratory qualified (J4). **All associated styrene results are qualified as estimated (UJ/J).**

*USEPA Method TO-15:*

Laboratory control sample/laboratory control sample duplicates (LCS/LCSD) were analyzed by USEPA Method TO-15 method. The LCS/LCSD %Rs and RPDs for the all target compounds are within the laboratory control criteria for **air**.

*NWTPH-Gx Method:*

The LCS/LCSD %Rs and RPD for the target compound (gasoline) are within the laboratory control criteria for soils.

*Total Solids by SM 2540 G 2011:*

The LCS %Rs for total solids are within the laboratory control criteria for soils.

**Matrix Spike/Matrix Spike Duplicates**

*USEPA Method 8260C:*

Matrix spike/matrix spike duplicate (MS/MSD) analyses were not performed. Refer to LCS/LCSDs for accuracy and precision data.

*USEPA Method TO-15:*

A matrix spike/matrix spike duplicate (MS/MSD) is not required for VOCs. Refer to LCS/LCSD results for accuracy and precision data.

*NWTPH-Gx Method:*

MS/MSD analyses were performed on client sample A3C3-10 within the analytical batch. The MS/MSD %Rs and RPDs for all target compounds are within the laboratory control criteria for soils.

**Other Quality Control Issues**

No laboratory quality control issues were identified in the laboratory report with the following discussions:

**Quantitation Limits**

Results of the analyses were reported based on laboratory RDLs for all compounds. RDLs for selected compounds are elevated due to method-required dilutions. Though no action is taken other than to note that Pace sample narrative notes indicate that several VOC target compounds were too high to run at lower dilution for five samples:

SDG Number	Laboratory Identification	Client Sample Identification
L1072936	L1072936-05	B6D6-35
L1072936	L1072936-07	B6D6-45 *
L1072936	L1072936-12	B10D10-25
L1072936	L1072936-13	B10D10-30
L1072936	L1072936-16	B10D10-45*

\* Pace was contacted to clarify the footnote “dilution due to sample volume” associated with two sample (B6D6-45 and B10D10-45) VOC results. Per Pace, samples (B6D6-45 and B10D10-45) for VOC analysis were prepped from the methanol preserved vials and there was less methanol available in the vials than normal. Pace indicated that this may have been caused by adding too much soil volume to the vials, or very absorbent soils. Pace also indicated that this is not a common issue and it typically results in dilutions less than 5x. Sample B6D6-45 needed a dilution of 2X and sample B10D10-45 needed a dilution greater than 5x (16.2X). No action was taken other than to note this.

**Detections between the MDL and RDL are estimated (J) by the laboratory and qualified (J) by the data validator to re-emphasize that the detection is estimated.**

**Data Assessment**

The laboratory data reported for this project were reviewed based on the criteria outlined in:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA, 2017).

Data qualifiers are assigned and laboratory report pages with qualifiers are attached. All data, including qualified data, are judged to be acceptable for their intended use.



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.7		1	09/10/2018 13:20	<a href="#">WG1163747</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0193	U	0.0158	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Acrylonitrile	U		0.00219	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Benzene	U		0.000462	0.00115	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromobenzene	U		0.00121	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromodichloromethane	U	J4	0.000910	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromochloromethane	U		0.00131	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromoform	U		0.00691	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Bromomethane	U		0.00427	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
n-Butylbenzene	U		0.00443	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
sec-Butylbenzene	U		0.00292	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
tert-Butylbenzene	U		0.00179	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Carbon disulfide	U		0.00468	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Carbon tetrachloride	U	J4	0.00125	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chlorobenzene	U		0.000661	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chlorodibromomethane	U		0.000520	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chloroethane	U		0.00125	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chloroform	U		0.000479	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Chloromethane	U		0.00161	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
2-Chlorotoluene	U		0.00106	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
4-Chlorotoluene	0.00193	J	0.00131	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dibromo-3-Chloropropane	U		0.00589	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dibromoethane	U		0.000606	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Dibromomethane	U		0.00115	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dichlorobenzene	U		0.00167	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,3-Dichlorobenzene	U		0.00196	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,4-Dichlorobenzene	U		0.00228	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Dichlorodifluoromethane	U		0.000944	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,1-Dichloroethane	U		0.000664	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dichloroethane	U		0.000548	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,1-Dichloroethene	0.00263	J	0.000577	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
cis-1,2-Dichloroethene	0.305		0.000796	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
trans-1,2-Dichloroethene	U		0.00165	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,2-Dichloropropane	U		0.0581	0.229	42.4	09/10/2018 17:39	<a href="#">WG1163971</a>
1,1-Dichloropropene	U		0.000808	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
1,3-Dichloropropane	U		0.00202	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
cis-1,3-Dichloropropene	U		0.000782	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
trans-1,3-Dichloropropene	U		0.00177	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
trans-1,4-Dichloro-2-butene	U		0.00162	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
2,2-Dichloropropane	U		0.000915	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Di-isopropyl ether	U		0.000404	0.00115	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Ethylbenzene	0.00123	J	0.000612	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
2-Hexanone	U		0.0115	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
n-Hexane	U		0.00122	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Iodomethane	U		0.00698	0.0144	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Isopropylbenzene	U		0.000996	0.00289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
p-Isopropyltoluene	U		0.00269	0.00577	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
2-Butanone (MEK)	0.0342		0.0145	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
Methylene Chloride	U		0.00766	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0289	1.07	09/10/2018 12:18	<a href="#">WG1163811</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 08/31/18 09:35

L1022679

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000341	0.00115	1.07	09/10/2018 12:18	WG1163811
Naphthalene	U		0.00360	0.0144	1.07	09/10/2018 12:18	WG1163811
n-Propylbenzene	0.00179	J J	0.00136	0.00577	1.07	09/10/2018 12:18	WG1163811
Styrene	U		0.00315	0.0144	1.07	09/10/2018 12:18	WG1163811
1,1,1,2-Tetrachloroethane	U		0.000577	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2,2-Tetrachloroethane	U		0.000450	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2-Trichlorotrifluoroethane	U		0.000779	0.00289	1.07	09/10/2018 12:18	WG1163811
Tetrachloroethene	14.5		0.0320	0.114	42.4	09/10/2018 17:39	WG1163971
Toluene	0.00954		0.00145	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trichlorobenzene	U		0.000722	0.00289	1.07	09/10/2018 12:18	WG1163811
1,2,4-Trichlorobenzene	U		0.00557	0.0144	1.07	09/10/2018 12:18	WG1163811
1,1,1-Trichloroethane	U		0.000317	0.00289	1.07	09/10/2018 12:18	WG1163811
1,1,2-Trichloroethane	U		0.00102	0.00289	1.07	09/10/2018 12:18	WG1163811
Trichloroethene	0.708		0.0183	0.0458	42.4	09/10/2018 17:39	WG1163971
Trichlorofluoromethane	U		0.000577	0.00289	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trichloropropane	U		0.00589	0.0144	1.07	09/10/2018 12:18	WG1163811
1,2,4-Trimethylbenzene	0.0107		0.00134	0.00577	1.07	09/10/2018 12:18	WG1163811
1,2,3-Trimethylbenzene	0.00278	J J	0.00133	0.00577	1.07	09/10/2018 12:18	WG1163811
1,3,5-Trimethylbenzene	0.00366	J J	0.00125	0.00577	1.07	09/10/2018 12:18	WG1163811
Vinyl acetate	U	J3	0.00407	0.0144	1.07	09/10/2018 12:18	WG1163811
Vinyl chloride	U		0.000789	0.00289	1.07	09/10/2018 12:18	WG1163811
Xylenes, Total	U		0.219	0.297	42.4	09/10/2018 17:39	WG1163971
(S) Toluene-d8	97.4			75.0-131		09/10/2018 12:18	WG1163811
(S) Toluene-d8	98.9			75.0-131		09/10/2018 17:39	WG1163971
(S) Dibromofluoromethane	93.0			65.0-129		09/10/2018 12:18	WG1163811
(S) Dibromofluoromethane	115			65.0-129		09/10/2018 17:39	WG1163971
(S) 4-Bromofluorobenzene	98.7			67.0-138		09/10/2018 12:18	WG1163811
(S) 4-Bromofluorobenzene	90.9			67.0-138		09/10/2018 17:39	WG1163971

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1022679-01 WG1163811, WG1163971: Not all compounds reportable from 1x dilution.

L1022679-01 WG1163811, WG1163971: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	09/10/2018 13:20	<a href="#">WG1163747</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0166	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Acrylonitrile	U		0.00230	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Benzene	U		0.000484	0.00121	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromobenzene	U		0.00127	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromodichloromethane	U	J4	0.000954	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromochloromethane	U		0.00137	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromoform	U		0.00724	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Bromomethane	U		0.00448	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
n-Butylbenzene	U		0.00465	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
sec-Butylbenzene	U		0.00306	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
tert-Butylbenzene	U		0.00188	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Carbon disulfide	0.00695	J J	0.00492	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Carbon tetrachloride	U	J4	0.00131	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chlorobenzene	U		0.000694	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chlorodibromomethane	U		0.000545	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chloroethane	U		0.00131	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chloroform	U		0.000503	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Chloromethane	U		0.00168	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
2-Chlorotoluene	U		0.00111	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
4-Chlorotoluene	U		0.00137	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dibromo-3-Chloropropane	U		0.00618	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dibromoethane	U		0.000636	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Dibromomethane	U		0.00121	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dichlorobenzene	U		0.00176	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,3-Dichlorobenzene	U		0.00206	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,4-Dichlorobenzene	U		0.00239	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Dichlorodifluoromethane	U		0.000991	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,1-Dichloroethane	U		0.000696	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dichloroethane	U		0.000575	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,1-Dichloroethene	0.00765		0.000606	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
cis-1,2-Dichloroethene	0.975		0.000836	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
trans-1,2-Dichloroethene	U		0.00173	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,2-Dichloropropane	U		0.0615	0.242	40	09/10/2018 17:58	<a href="#">WG1163971</a>
1,1-Dichloropropene	U		0.000848	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
1,3-Dichloropropane	U		0.00212	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
cis-1,3-Dichloropropene	U		0.000821	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
trans-1,3-Dichloropropene	U		0.00185	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
trans-1,4-Dichloro-2-butene	U		0.00170	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
2,2-Dichloropropane	U		0.000961	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Di-isopropyl ether	U		0.000424	0.00121	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Ethylbenzene	U		0.000642	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Hexachloro-1,3-butadiene	U		0.0154	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
2-Hexanone	U		0.0121	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
n-Hexane	U		0.00128	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Iodomethane	U		0.00733	0.0151	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Isopropylbenzene	U		0.00105	0.00303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
p-Isopropyltoluene	U		0.00282	0.00606	1	09/10/2018 12:37	<a href="#">WG1163811</a>
2-Butanone (MEK)	0.0382		0.0151	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
Methylene Chloride	U		0.00804	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>
4-Methyl-2-pentanone (MIBK)	U		0.0121	0.0303	1	09/10/2018 12:37	<a href="#">WG1163811</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 08/31/18 13:00

L1022679

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000357	0.00121	1	09/10/2018 12:37	WG1163811
Naphthalene	U		0.00378	0.0151	1	09/10/2018 12:37	WG1163811
n-Propylbenzene	U		0.00143	0.00606	1	09/10/2018 12:37	WG1163811
Styrene	U		0.00331	0.0151	1	09/10/2018 12:37	WG1163811
1,1,1,2-Tetrachloroethane	U		0.000606	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2,2-Tetrachloroethane	U		0.000472	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2-Trichlorotrifluoroethane	U		0.000818	0.00303	1	09/10/2018 12:37	WG1163811
Tetrachloroethene	16.6		0.0339	0.121	40	09/10/2018 17:58	WG1163971
Toluene	0.00182	J J	0.00151	0.00606	1	09/10/2018 12:37	WG1163811
1,2,3-Trichlorobenzene	U		0.000757	0.00303	1	09/10/2018 12:37	WG1163811
1,2,4-Trichlorobenzene	U		0.00584	0.0151	1	09/10/2018 12:37	WG1163811
1,1,1-Trichloroethane	U		0.000333	0.00303	1	09/10/2018 12:37	WG1163811
1,1,2-Trichloroethane	U		0.00107	0.00303	1	09/10/2018 12:37	WG1163811
Trichloroethene	0.915		0.0194	0.0484	40	09/10/2018 17:58	WG1163971
Trichlorofluoromethane	U		0.000606	0.00303	1	09/10/2018 12:37	WG1163811
1,2,3-Trichloropropane	U		0.00618	0.0151	1	09/10/2018 12:37	WG1163811
1,2,4-Trimethylbenzene	0.00241	J J	0.00141	0.00606	1	09/10/2018 12:37	WG1163811
1,2,3-Trimethylbenzene	U		0.00139	0.00606	1	09/10/2018 12:37	WG1163811
1,3,5-Trimethylbenzene	U		0.00131	0.00606	1	09/10/2018 12:37	WG1163811
Vinyl acetate	U	J3	0.00426	0.0151	1	09/10/2018 12:37	WG1163811
Vinyl chloride	0.00698		0.000827	0.00303	1	09/10/2018 12:37	WG1163811
Xylenes, Total	U		0.231	0.315	40	09/10/2018 17:58	WG1163971
(S) Toluene-d8	79.8			75.0-131		09/10/2018 12:37	WG1163811
(S) Toluene-d8	96.7			75.0-131		09/10/2018 17:58	WG1163971
(S) Dibromofluoromethane	94.4			65.0-129		09/10/2018 12:37	WG1163811
(S) Dibromofluoromethane	117			65.0-129		09/10/2018 17:58	WG1163971
(S) 4-Bromofluorobenzene	90.9			67.0-138		09/10/2018 12:37	WG1163811
(S) 4-Bromofluorobenzene	86.6			67.0-138		09/10/2018 17:58	WG1163971

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1022679-02 WG1163811, WG1163971: Not all compounds reportable from 1x dilution.  
 L1022679-02 WG1163811, WG1163971: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.58	J	1.05	25.0	1	09/05/2018 16:43	WG1161708
Acrylonitrile	U		0.873	5.00	1	09/05/2018 16:43	WG1161708
Benzene	U		0.0896	0.500	1	09/05/2018 16:43	WG1161708
Bromobenzene	U		0.133	0.500	1	09/05/2018 16:43	WG1161708
Bromodichloromethane	U		0.0800	0.500	1	09/05/2018 16:43	WG1161708
Bromochloromethane	U		0.145	0.500	1	09/05/2018 16:43	WG1161708
Bromoform	U		0.186	0.500	1	09/05/2018 16:43	WG1161708
Bromomethane	U		0.157	2.50	1	09/05/2018 16:43	WG1161708
n-Butylbenzene	U		0.143	0.500	1	09/05/2018 16:43	WG1161708
sec-Butylbenzene	U		0.134	0.500	1	09/05/2018 16:43	WG1161708
tert-Butylbenzene	U		0.183	0.500	1	09/05/2018 16:43	WG1161708
Carbon disulfide	U		0.101	0.500	1	09/05/2018 16:43	WG1161708
Carbon tetrachloride	U		0.159	0.500	1	09/05/2018 16:43	WG1161708
Chlorobenzene	U		0.140	0.500	1	09/05/2018 16:43	WG1161708
Chlorodibromomethane	U		0.128	0.500	1	09/05/2018 16:43	WG1161708
Chloroethane	U		0.141	2.50	1	09/05/2018 16:43	WG1161708
Chloroform	U		0.0860	0.500	1	09/05/2018 16:43	WG1161708
Chloromethane	U		0.153	1.25	1	09/05/2018 16:43	WG1161708
2-Chlorotoluene	U		0.111	0.500	1	09/05/2018 16:43	WG1161708
4-Chlorotoluene	U		0.0972	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/05/2018 16:43	WG1161708
1,2-Dibromoethane	U		0.193	0.500	1	09/05/2018 16:43	WG1161708
Dibromomethane	U		0.117	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichlorobenzene	U		0.101	0.500	1	09/05/2018 16:43	WG1161708
1,3-Dichlorobenzene	U		0.130	0.500	1	09/05/2018 16:43	WG1161708
1,4-Dichlorobenzene	U		0.121	0.500	1	09/05/2018 16:43	WG1161708
Dichlorodifluoromethane	U		0.127	2.50	1	09/05/2018 16:43	WG1161708
1,1-Dichloroethane	U		0.114	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichloroethane	U		0.108	0.500	1	09/05/2018 16:43	WG1161708
1,1-Dichloroethene	U		0.188	0.500	1	09/05/2018 16:43	WG1161708
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/06/2018 02:34	WG1162010
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/05/2018 16:43	WG1161708
1,2-Dichloropropane	U		0.190	0.500	1	09/05/2018 16:43	WG1161708
1,1-Dichloropropene	U		0.128	0.500	1	09/05/2018 16:43	WG1161708
1,3-Dichloropropane	U		0.147	1.00	1	09/05/2018 16:43	WG1161708
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/05/2018 16:43	WG1161708
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/05/2018 16:43	WG1161708
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/05/2018 16:43	WG1161708
2,2-Dichloropropane	U		0.0929	0.500	1	09/05/2018 16:43	WG1161708
Di-isopropyl ether	U		0.0924	0.500	1	09/05/2018 16:43	WG1161708
Ethylbenzene	U		0.158	0.500	1	09/05/2018 16:43	WG1161708
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/05/2018 16:43	WG1161708
2-Hexanone	U		0.757	5.00	1	09/05/2018 16:43	WG1161708
n-Hexane	U		0.305	5.00	1	09/05/2018 16:43	WG1161708
Iodomethane	U		0.377	10.0	1	09/06/2018 02:34	WG1162010
Isopropylbenzene	U		0.126	0.500	1	09/05/2018 16:43	WG1161708
p-Isopropyltoluene	U		0.138	0.500	1	09/05/2018 16:43	WG1161708
2-Butanone (MEK)	U		1.28	5.00	1	09/05/2018 16:43	WG1161708
Methylene Chloride	U		1.07	2.50	1	09/05/2018 16:43	WG1161708
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/05/2018 16:43	WG1161708
Methyl tert-butyl ether	U		0.102	0.500	1	09/05/2018 16:43	WG1161708
Naphthalene	U		0.174	2.50	1	09/05/2018 16:43	WG1161708
n-Propylbenzene	U		0.162	0.500	1	09/05/2018 16:43	WG1161708
Styrene	U		0.117	0.500	1	09/05/2018 16:43	WG1161708
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/05/2018 16:43	WG1161708
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/05/2018 16:43	WG1161708

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 10/19/18



Collected date/time: 08/31/18 00:00

L1022679

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Tetrachloroethene	U		0.199	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Toluene	U		0.412	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Trichloroethene	U		0.153	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Trichlorofluoromethane	U		0.130	2.50	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Vinyl acetate	U		0.645	5.00	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Vinyl chloride	U		0.118	0.500	1	09/05/2018 16:43	<a href="#">WG1161708</a>
Xylenes, Total	U		0.316	1.50	1	09/05/2018 16:43	<a href="#">WG1161708</a>
(S) Toluene-d8	102			80.0-120		09/05/2018 16:43	<a href="#">WG1161708</a>
(S) Toluene-d8	102			80.0-120		09/06/2018 02:34	<a href="#">WG1162010</a>
(S) Dibromofluoromethane	96.4			75.0-120		09/05/2018 16:43	<a href="#">WG1161708</a>
(S) Dibromofluoromethane	105			75.0-120		09/06/2018 02:34	<a href="#">WG1162010</a>
(S) 4-Bromofluorobenzene	108			77.0-126		09/05/2018 16:43	<a href="#">WG1161708</a>
(S) 4-Bromofluorobenzene	99.9			77.0-126		09/06/2018 02:34	<a href="#">WG1162010</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.5		1	09/13/2018 12:19	<a href="#">WG1165172</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0193	U	0.0164	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00227	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Benzene	U		0.000479	0.00120	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromobenzene	U		0.00126	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000943	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00135	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromoform	U		0.00716	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Bromomethane	U		0.00443	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
n-Butylbenzene	0.00802	J	0.00460	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
sec-Butylbenzene	0.00399	J	0.00303	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
tert-Butylbenzene	0.00248	J	0.00186	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00486	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00129	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000686	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000539	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chloroethane	U		0.00129	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chloroform	U		0.000497	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Chloromethane	U		0.00166	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00110	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00135	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000628	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Dibromomethane	U		0.00120	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00174	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00203	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00236	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.000979	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000688	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000569	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1-Dichloroethene	0.0116		0.000598	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	8.86		0.330	1.20	400	09/13/2018 03:50	<a href="#">WG1165154</a>
trans-1,2-Dichloroethene	0.0116	J	0.00171	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		0.608	2.39	400	09/13/2018 03:50	<a href="#">WG1165154</a>
1,1-Dichloropropene	U		0.000838	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00209	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000812	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00183	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00168	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000949	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000419	0.00120	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Ethylbenzene	0.00266	J	0.000634	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
2-Hexanone	U		0.0120	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
n-Hexane	U	UJ	0.00127	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Iodomethane	U		0.00724	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Isopropylbenzene	0.00186	J	0.00103	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
p-Isopropyltoluene	0.00450	J	0.00279	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
2-Butanone (MEK)	U		0.0150	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00795	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1	09/12/2018 04:30	<a href="#">WG1164600</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/04/18 16:30

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Naphthalene	0.0229		0.00373	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
n-Propylbenzene	0.00809		0.00141	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Styrene	U		0.00327	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000467	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.323	1.20	400	09/13/2018 03:50	<a href="#">WG1165154</a>
Tetrachloroethene	308		0.335	1.20	400	09/13/2018 03:50	<a href="#">WG1165154</a>
Toluene	0.00716		0.00150	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000748	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00577	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000329	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.00106	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Trichloroethene	0.929		0.192	0.479	400	09/13/2018 03:50	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000598	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00610	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	0.0811		0.00139	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	0.0380		0.00138	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	0.0240		0.00129	0.00598	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Vinyl acetate	U	UJ JO	0.00421	0.0150	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Vinyl chloride	0.532		0.000818	0.00299	1	09/12/2018 04:30	<a href="#">WG1164600</a>
Xylenes, Total	U		2.29	3.11	400	09/13/2018 03:50	<a href="#">WG1165154</a>
(S) Toluene-d8	105			75.0-131		09/12/2018 04:30	<a href="#">WG1164600</a>
(S) Toluene-d8	98.6			75.0-131		09/13/2018 03:50	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	90.9			65.0-129		09/12/2018 04:30	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	106			65.0-129		09/13/2018 03:50	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/12/2018 04:30	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	96.7			67.0-138		09/13/2018 03:50	<a href="#">WG1165154</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-01 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-01 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Collected date/time: 09/05/18 17:00

L1024338

## Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.7		1	09/13/2018 12:19	<a href="#">WG1165172</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	mg/kg		mg/kg	mg/kg		date / time		
Acetone	U		0.0149	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Acrylonitrile	U		0.00207	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Benzene	U		0.000436	0.00109	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Bromobenzene	U		0.00115	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Bromodichloromethane	U		0.000860	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Bromochloromethane	U		0.00123	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Bromoform	U		0.00652	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Bromomethane	U		0.00404	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
n-Butylbenzene	U		0.00419	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
sec-Butylbenzene	U		0.00276	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
tert-Butylbenzene	U		0.00169	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Carbon disulfide	U		0.00443	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Carbon tetrachloride	U		0.00118	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Chlorobenzene	U		0.000625	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Chlorodibromomethane	U		0.000491	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Chloroethane	U		0.00118	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Chloroform	U		0.000453	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Chloromethane	U		0.00152	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
2-Chlorotoluene	U		0.00100	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
4-Chlorotoluene	U		0.00123	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,2-Dibromoethane	U		0.000573	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Dibromomethane	U		0.00109	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,2-Dichlorobenzene	U		0.00158	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,3-Dichlorobenzene	U		0.00185	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,4-Dichlorobenzene	U		0.00215	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Dichlorodifluoromethane	U		0.000892	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,1-Dichloroethane	U		0.000627	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,2-Dichloroethane	U		0.000518	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,1-Dichloroethene	U		0.000545	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
cis-1,2-Dichloroethene	U		1.51	5.45	2000	09/13/2018 04:10	<a href="#">WG1165154</a>	
trans-1,2-Dichloroethene	U	UJ	JO	0.00156	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		2.77	10.9	2000	09/13/2018 04:10	<a href="#">WG1165154</a>	
1,1-Dichloropropene	U		0.000764	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
1,3-Dichloropropane	U		0.00191	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
trans-1,3-Dichloropropene	U		0.00167	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
trans-1,4-Dichloro-2-butene	U		0.00153	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
2,2-Dichloropropane	U		0.000865	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Di-isopropyl ether	U		0.000382	0.00109	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Ethylbenzene	0.00226	J	J	0.000578	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
2-Hexanone	U		0.0109	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
n-Hexane	U	UJ	JO	0.00116	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Iodomethane	U		0.00660	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
Isopropylbenzene	0.000956	J	J	0.000941	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00254	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
2-Butanone (MEK)	0.0224	J	J	0.0136	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00724	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/12/2018 04:49	<a href="#">WG1164600</a>	

JC 10/19/18



Collected date/time: 09/05/18 17:00

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Naphthalene	U		0.00340	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
n-Propylbenzene	0.00358	J J	0.00129	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Styrene	U		0.00298	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000545	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000425	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		1.47	5.45	2000	09/13/2018 04:10	<a href="#">WG1165154</a>
Tetrachloroethene	937		15.3	54.5	20000	09/13/2018 16:17	<a href="#">WG1165578</a>
Toluene	0.00476	J J	0.00136	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000300	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.000963	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Trichloroethene	0.922	J J	0.873	2.18	2000	09/13/2018 04:10	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000545	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00556	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	0.00891		0.00127	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00125	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	0.00290	J J	0.00118	0.00545	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Vinyl acetate	U	UJ JO	0.00384	0.0136	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Vinyl chloride	0.00293		0.000745	0.00273	1	09/12/2018 04:49	<a href="#">WG1164600</a>
Xylenes, Total	U		10.4	14.2	2000	09/13/2018 04:10	<a href="#">WG1165154</a>
(S) Toluene-d8	124			75.0-131		09/12/2018 04:49	<a href="#">WG1164600</a>
(S) Toluene-d8	99.3			75.0-131		09/13/2018 04:10	<a href="#">WG1165154</a>
(S) Toluene-d8	99.7			75.0-131		09/13/2018 16:17	<a href="#">WG1165578</a>
(S) Dibromofluoromethane	90.0			65.0-129		09/12/2018 04:49	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	107			65.0-129		09/13/2018 04:10	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	105			65.0-129		09/13/2018 16:17	<a href="#">WG1165578</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		09/12/2018 04:49	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/13/2018 04:10	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/13/2018 16:17	<a href="#">WG1165578</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-02 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-02 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.2		1	09/13/2018 12:19	<a href="#">WG1165172</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0186	U J	0.0152	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00211	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Benzene	U		0.000444	0.00111	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromobenzene	U		0.00116	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000874	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00125	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromoform	U		0.00663	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Bromomethane	U		0.00410	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
n-Butylbenzene	U		0.00426	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
sec-Butylbenzene	U		0.00281	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
tert-Butylbenzene	U		0.00172	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00450	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00120	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000636	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000499	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chloroethane	U		0.00120	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chloroform	U		0.000460	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Chloromethane	U		0.00154	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00102	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00125	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00566	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000582	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Dibromomethane	U		0.00111	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00161	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00189	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00219	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.000907	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000638	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000527	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1-Dichloroethene	U		0.000555	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	0.0349		0.00765	0.0277	10	09/13/2018 15:59	<a href="#">WG1165578</a>
trans-1,2-Dichloroethene	U	UJ JO	0.00159	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		0.0141	0.0555	10	09/13/2018 15:59	<a href="#">WG1165578</a>
1,1-Dichloropropene	U		0.000776	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00194	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000752	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00170	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00155	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000880	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000388	0.00111	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Ethylbenzene	U		0.000588	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0141	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
2-Hexanone	U		0.0111	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
n-Hexane	U	UJ JO	0.00118	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Iodomethane	U		0.00671	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Isopropylbenzene	U		0.000957	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00258	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
2-Butanone (MEK)	U		0.0139	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00737	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	09/12/2018 05:08	<a href="#">WG1164600</a>

JC 10/19/18

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/06/18 08:55

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000327	0.0011	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Naphthalene	U		0.00346	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
n-Propylbenzene	U		0.00131	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Styrene	U		0.00303	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000555	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000433	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.00749	0.0277	10	09/13/2018 15:59	<a href="#">WG1165578</a>
Tetrachloroethene	2.21		0.00776	0.0277	10	09/13/2018 15:59	<a href="#">WG1165578</a>
Toluene	U		0.00139	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000693	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00535	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000305	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.000979	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Trichloroethene	0.0456		0.00444	0.0111	10	09/13/2018 15:59	<a href="#">WG1165578</a>
Trichlorofluoromethane	U		0.000555	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00566	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	U		0.00129	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00128	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	U		0.00120	0.00555	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Vinyl acetate	U	UJ JO	0.00390	0.0139	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Vinyl chloride	U		0.000758	0.00277	1	09/12/2018 05:08	<a href="#">WG1164600</a>
Xylenes, Total	U		0.0530	0.0721	10	09/13/2018 15:59	<a href="#">WG1165578</a>
(S) Toluene-d8	108			75.0-131		09/12/2018 05:08	<a href="#">WG1164600</a>
(S) Toluene-d8	101			75.0-131		09/13/2018 15:59	<a href="#">WG1165578</a>
(S) Dibromofluoromethane	91.7			65.0-129		09/12/2018 05:08	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	110			65.0-129		09/13/2018 15:59	<a href="#">WG1165578</a>
(S) 4-Bromofluorobenzene	98.6			67.0-138		09/12/2018 05:08	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/13/2018 15:59	<a href="#">WG1165578</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-03 WG1164600, WG1165578: Not all analytes reportable at lower dilution.

L1024338-03 WG1164600, WG1165578: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.6		1	09/13/2018 11:53	<a href="#">WG1165176</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	mg/kg		mg/kg	mg/kg		date / time		
Acetone	U		0.0149	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Acrylonitrile	U		0.00207	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Benzene	U		0.000436	0.00109	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Bromobenzene	U		0.00115	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Bromodichloromethane	U		0.000860	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Bromochloromethane	U		0.00123	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Bromoform	U		0.00652	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Bromomethane	U		0.00404	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
n-Butylbenzene	U		0.00419	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
sec-Butylbenzene	U		0.00276	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
tert-Butylbenzene	U		0.00169	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Carbon disulfide	U		0.00443	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Carbon tetrachloride	U		0.00118	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Chlorobenzene	U		0.000625	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Chlorodibromomethane	U		0.000491	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Chloroethane	U		0.00118	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Chloroform	U		0.000453	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Chloromethane	U		0.00152	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
2-Chlorotoluene	U		0.00100	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
4-Chlorotoluene	U		0.00123	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,2-Dibromo-3-Chloropropane	U		0.00556	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,2-Dibromoethane	U		0.000573	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Dibromomethane	U		0.00109	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,2-Dichlorobenzene	U		0.00158	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,3-Dichlorobenzene	U		0.00185	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,4-Dichlorobenzene	U		0.00215	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Dichlorodifluoromethane	U		0.000893	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,1-Dichloroethane	U		0.000627	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,2-Dichloroethane	U		0.000518	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,1-Dichloroethene	0.00669		0.000546	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
cis-1,2-Dichloroethene	1.90		0.000753	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
trans-1,2-Dichloroethene	0.00612	J	JO	0.00156	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2-Dichloropropane	1.13		0.0277	0.109	20	09/13/2018 04:50	<a href="#">WG1165154</a>	
1,1-Dichloropropene	U		0.000764	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
1,3-Dichloropropane	U		0.00191	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
cis-1,3-Dichloropropene	U		0.000740	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
trans-1,3-Dichloropropene	U		0.00167	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
trans-1,4-Dichloro-2-butene	U		0.00153	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
2,2-Dichloropropane	U		0.000865	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Di-isopropyl ether	U		0.000382	0.00109	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Ethylbenzene	U		0.000578	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
2-Hexanone	U		0.0109	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
n-Hexane	U	UJ	JO	0.00116	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Iodomethane	U		0.00660	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
Isopropylbenzene	U		0.000942	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
p-Isopropyltoluene	U		0.00254	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
2-Butanone (MEK)	0.0152	J	J	0.0136	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00724	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/12/2018 05:27	<a href="#">WG1164600</a>	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/06/18 09:00

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000322	0.00109	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Naphthalene	U		0.00340	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
n-Propylbenzene	U		0.00129	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Styrene	U		0.00298	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000546	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000426	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.0147	0.0546	20	09/13/2018 04:50	<a href="#">WG1165154</a>
Tetrachloroethene	11.0		0.0153	0.0546	20	09/13/2018 04:50	<a href="#">WG1165154</a>
Toluene	0.00277	J J	0.00136	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000682	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00526	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000300	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.000963	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Trichloroethene	4.48		0.00873	0.0218	20	09/13/2018 04:50	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000546	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00556	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	0.00251	J J	0.00127	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00125	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	U		0.00118	0.00546	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Vinyl acetate	U	UJ JO	0.00384	0.0136	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Vinyl chloride	U		0.000745	0.00273	1	09/12/2018 05:27	<a href="#">WG1164600</a>
Xylenes, Total	U		0.104	0.142	20	09/13/2018 04:50	<a href="#">WG1165154</a>
(S) Toluene-d8	105			75.0-131		09/12/2018 05:27	<a href="#">WG1164600</a>
(S) Toluene-d8	100			75.0-131		09/13/2018 04:50	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	93.5			65.0-129		09/12/2018 05:27	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	105			65.0-129		09/13/2018 04:50	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/12/2018 05:27	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	96.9			67.0-138		09/13/2018 04:50	<a href="#">WG1165154</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-04 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-04 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	09/13/2018 11:53	<a href="#">WG1165176</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0171	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00237	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Benzene	0.000702	J J	0.000500	0.00125	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromobenzene	U		0.00131	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000985	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00142	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromoform	U		0.00748	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Bromomethane	U		0.00462	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
n-Butylbenzene	U		0.00480	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
sec-Butylbenzene	U		0.00316	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
tert-Butylbenzene	U		0.00193	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00507	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00134	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000716	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000563	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chloroethane	U		0.00134	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chloroform	U		0.000519	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Chloromethane	U		0.00173	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00115	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00142	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00638	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000656	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Dibromomethane	U		0.00125	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00182	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00212	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00247	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.00102	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000720	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000595	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1-Dichloroethene	0.00379		0.000625	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	1.02		0.000862	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
trans-1,2-Dichloroethene	U	UJ JO	0.00179	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		0.00157	0.00619	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
1,1-Dichloropropene	U		0.000875	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00219	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000848	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00191	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00175	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000991	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000438	0.00125	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Ethylbenzene	U		0.000663	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0159	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
2-Hexanone	U		0.0125	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
n-Hexane	U	UJ JO	0.00132	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Iodomethane	U		0.00756	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Isopropylbenzene	U		0.00108	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00291	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
2-Butanone (MEK)	0.0350		0.0156	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00830	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0125	0.0313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/06/18 10:15

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000369	0.00125	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Naphthalene	U		0.00390	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
n-Propylbenzene	U		0.00147	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Styrene	U		0.00341	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000625	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000487	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.000836	0.00310	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
Tetrachloroethene	0.0689		0.000867	0.00310	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
Toluene	0.00246	J J	0.00156	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000781	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00603	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000344	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.00110	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Trichloroethene	0.0349		0.000495	0.00124	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000625	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00638	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	U		0.00145	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00144	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	U		0.00134	0.00625	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Vinyl acetate	U	UJ JO	0.00440	0.0156	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Vinyl chloride	0.0927		0.000854	0.00313	1.06	09/12/2018 05:46	<a href="#">WG1164600</a>
Xylenes, Total	U		0.00592	0.00805	1.05	09/13/2018 03:30	<a href="#">WG1165154</a>
(S) Toluene-d8	90.7			75.0-131		09/12/2018 05:46	<a href="#">WG1164600</a>
(S) Toluene-d8	110			75.0-131		09/13/2018 03:30	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	98.7			65.0-129		09/12/2018 05:46	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	87.8			65.0-129		09/13/2018 03:30	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	95.7			67.0-138		09/12/2018 05:46	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	109			67.0-138		09/13/2018 03:30	<a href="#">WG1165154</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.5		1	09/13/2018 11:53	<a href="#">WG1165176</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J3	0.0155	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Acrylonitrile	U		0.00215	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Benzene	0.000635	J J	0.000452	0.00113	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromobenzene	U		0.00119	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromodichloromethane	U		0.000891	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromochloromethane	U		0.00128	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromoform	U		0.00676	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Bromomethane	U		0.00418	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
n-Butylbenzene	U		0.00434	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
sec-Butylbenzene	U		0.00286	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
tert-Butylbenzene	U		0.00175	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Carbon disulfide	U		0.00459	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Carbon tetrachloride	U		0.00122	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chlorobenzene	U		0.000648	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chlorodibromomethane	U		0.000509	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chloroethane	U		0.00122	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chloroform	U		0.000469	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Chloromethane	U		0.00157	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
2-Chlorotoluene	U		0.00104	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
4-Chlorotoluene	U		0.00128	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dibromo-3-Chloropropane	U		0.00576	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dibromoethane	U		0.000593	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Dibromomethane	U		0.00113	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dichlorobenzene	U		0.00164	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,3-Dichlorobenzene	U		0.00192	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,4-Dichlorobenzene	U		0.00223	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Dichlorodifluoromethane	U		0.000925	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1-Dichloroethane	U		0.000650	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dichloroethane	U		0.000537	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1-Dichloroethene	0.0124		0.000565	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
cis-1,2-Dichloroethene	3.74		0.00780	0.0283	10	09/13/2018 05:09	<a href="#">WG1165154</a>
trans-1,2-Dichloroethene	0.0101	J JO	0.00162	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2-Dichloropropane	U		0.0144	0.0565	10	09/13/2018 05:09	<a href="#">WG1165154</a>
1,1-Dichloropropene	U		0.000791	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,3-Dichloropropane	U		0.00198	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
cis-1,3-Dichloropropene	U		0.000766	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
trans-1,3-Dichloropropene	U		0.00173	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
trans-1,4-Dichloro-2-butene	U		0.00158	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
2,2-Dichloropropane	U		0.000896	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Di-isopropyl ether	U		0.000396	0.00113	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Ethylbenzene	U		0.000599	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
2-Hexanone	U		0.0113	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
n-Hexane	U	UJ JO	0.00120	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Iodomethane	U		0.00684	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Isopropylbenzene	U		0.000975	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
p-Isopropyltoluene	U		0.00263	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
2-Butanone (MEK)	U		0.0141	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Methylene Chloride	U		0.00751	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/12/2018 06:05	<a href="#">WG1164600</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/07/18 13:40

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Naphthalene	U		0.00353	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
n-Propylbenzene	U		0.00133	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Styrene	U		0.00309	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,1,2-Tetrachloroethane	U		0.000565	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,2-Trichlorotrifluoroethane	U		0.00763	0.0283	10	09/13/2018 05:09	<a href="#">WG1165154</a>
Tetrachloroethene	0.313		0.00791	0.0283	10	09/13/2018 05:09	<a href="#">WG1165154</a>
Toluene	0.00380	J J	0.00141	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,3-Trichlorobenzene	U		0.000706	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,1-Trichloroethane	U		0.000311	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,1,2-Trichloroethane	U		0.000998	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Trichloroethene	0.0257		0.00452	0.0113	10	09/13/2018 05:09	<a href="#">WG1165154</a>
Trichlorofluoromethane	U		0.000565	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,3-Trichloropropane	U		0.00576	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,4-Trimethylbenzene	0.00191	J J	0.00131	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,2,3-Trimethylbenzene	U		0.00130	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
1,3,5-Trimethylbenzene	U		0.00122	0.00565	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Vinyl acetate	U	UJ JO	0.00398	0.0141	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Vinyl chloride	0.176	J- J6	0.000772	0.00283	1	09/12/2018 06:05	<a href="#">WG1164600</a>
Xylenes, Total	U		0.0540	0.0735	10	09/13/2018 05:09	<a href="#">WG1165154</a>
(S) Toluene-d8	94.9			75.0-131		09/12/2018 06:05	<a href="#">WG1164600</a>
(S) Toluene-d8	102			75.0-131		09/13/2018 05:09	<a href="#">WG1165154</a>
(S) Dibromofluoromethane	94.5			65.0-129		09/12/2018 06:05	<a href="#">WG1164600</a>
(S) Dibromofluoromethane	98.4			65.0-129		09/13/2018 05:09	<a href="#">WG1165154</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/12/2018 06:05	<a href="#">WG1164600</a>
(S) 4-Bromofluorobenzene	94.7			67.0-138		09/13/2018 05:09	<a href="#">WG1165154</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1024338-06 WG1164600, WG1165154: Not all analytes reportable at lower dilution.

L1024338-06 WG1164600, WG1165154: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.3		1	09/13/2018 11:53	<a href="#">WG1165176</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0163	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Acrylonitrile	U		0.00227	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Benzene	0.000769	J J	0.000476	0.00119	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Bromobenzene	U		0.00125	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Bromodichloromethane	U		0.0939	0.298	104	09/17/2018 15:38	<a href="#">WG1167356</a>
Bromochloromethane	U		0.00135	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Bromoform	U		0.00712	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Bromomethane	U		0.441	1.49	104	09/17/2018 15:38	<a href="#">WG1167356</a>
n-Butylbenzene	0.00478	J J	0.00457	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
sec-Butylbenzene	U		0.00301	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
tert-Butylbenzene	0.00213	J J	0.00184	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Carbon disulfide	0.00537	U B J	0.00483	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Carbon tetrachloride	U		0.00128	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chlorobenzene	U		0.000682	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chlorodibromomethane	U		0.000536	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chloroethane	U		0.00128	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chloroform	U		0.000495	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Chloromethane	U		0.00165	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
2-Chlorotoluene	U		0.00110	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
4-Chlorotoluene	U		0.00135	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dibromo-3-Chloropropane	U		0.00607	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dibromoethane	U	U J J4	0.000625	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Dibromomethane	U		0.00119	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dichlorobenzene	U		0.00173	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,3-Dichlorobenzene	U		0.00203	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,4-Dichlorobenzene	U	U J J4	0.00235	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Dichlorodifluoromethane	U		0.000974	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1-Dichloroethane	U		0.000685	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dichloroethane	U		0.000566	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1-Dichloroethene	0.00857		0.000595	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
cis-1,2-Dichloroethene	0.980		0.000822	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
trans-1,2-Dichloroethene	0.0424		0.00171	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2-Dichloropropane	U		0.00151	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1-Dichloropropene	U		0.000834	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,3-Dichloropropane	U		0.00208	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
cis-1,3-Dichloropropene	U		0.000807	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
trans-1,3-Dichloropropene	U		0.00182	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
trans-1,4-Dichloro-2-butene	U		0.00167	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
2,2-Dichloropropane	U		0.000945	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Di-isopropyl ether	U		0.000417	0.00119	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Ethylbenzene	0.00186	J J	0.000631	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Hexachloro-1,3-butadiene	U		0.0151	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
2-Hexanone	U		0.0119	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
n-Hexane	U		0.00126	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Iodomethane	U	U J J4	0.720	1.49	104	09/17/2018 15:38	<a href="#">WG1167356</a>
Isopropylbenzene	0.00133	J J	0.00103	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
p-Isopropyltoluene	0.00285	J J	0.00277	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
2-Butanone (MEK)	0.0508		0.0149	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Methylene Chloride	U		0.00790	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>

JC 10/19/18

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Collected date/time: 09/07/18 14:20

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000352	0.00119	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Naphthalene	0.00586	J J	0.00371	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
n-Propylbenzene	0.00290	J J	0.00141	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Styrene	U		0.00325	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,1,2-Tetrachloroethane	U		0.000595	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,2,2-Tetrachloroethane	U	J4	0.000465	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,2-Trichlorotrifluoroethane	U		0.000804	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Tetrachloroethene	140		0.0834	0.298	104	09/17/2018 15:38	<a href="#">WG1167356</a>
Toluene	0.00382	J J	0.00149	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,3-Trichlorobenzene	U		0.000744	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,4-Trichlorobenzene	U		0.00574	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,1-Trichloroethane	U	J4	0.000327	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,1,2-Trichloroethane	U		0.00105	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Trichloroethene	0.882		0.000476	0.00119	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Trichlorofluoromethane	U		0.000595	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,3-Trichloropropane	U		0.00607	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,4-Trimethylbenzene	0.0250		0.00139	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,2,3-Trimethylbenzene	0.00905		0.00137	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
1,3,5-Trimethylbenzene	0.00869		0.00128	0.00595	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Vinyl acetate	U		0.00419	0.0149	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Vinyl chloride	U		0.000813	0.00298	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
Xylenes, Total	0.00785		0.00569	0.00774	1.04	09/17/2018 13:33	<a href="#">WG1166945</a>
(S) Toluene-d8	107			75.0-131		09/17/2018 13:33	<a href="#">WG1166945</a>
(S) Toluene-d8	111			75.0-131		09/17/2018 15:38	<a href="#">WG1167356</a>
(S) Dibromofluoromethane	116			65.0-129		09/17/2018 13:33	<a href="#">WG1166945</a>
(S) Dibromofluoromethane	102			65.0-129		09/17/2018 15:38	<a href="#">WG1167356</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/17/2018 13:33	<a href="#">WG1166945</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/17/2018 15:38	<a href="#">WG1167356</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1024338-07 WG1166945, WG1167356: Not all analytes reportable at lower dilution.

L1024338-07 WG1166945, WG1167356: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.29	<u>J</u>	1.05	25.0	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Acrylonitrile	U		0.873	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Benzene	U		0.0896	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromobenzene	U		0.133	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromodichloromethane	U		0.0800	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromochloromethane	U		0.145	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromoform	U		0.186	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Bromomethane	U	<b>UJ</b> <u>JO</u>	0.157	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
n-Butylbenzene	U		0.143	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
sec-Butylbenzene	U		0.134	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
tert-Butylbenzene	U		0.183	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Carbon disulfide	U		0.101	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Carbon tetrachloride	U		0.159	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chlorobenzene	U		0.140	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chlorodibromomethane	U		0.128	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chloroethane	U		0.141	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chloroform	U		0.0860	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Chloromethane	U		0.153	1.25	1	09/13/2018 01:50	<a href="#">WG1164809</a>
2-Chlorotoluene	U		0.111	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
4-Chlorotoluene	U		0.0972	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dibromoethane	U		0.193	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Dibromomethane	U		0.117	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Dichlorodifluoromethane	U		0.127	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1-Dichloroethane	U		0.114	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dichloroethane	U		0.108	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1-Dichloroethene	U		0.188	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2-Dichloropropane	U		0.190	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1-Dichloropropene	U		0.128	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,3-Dichloropropane	U		0.147	1.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
trans-1,4-Dichloro-2-butene	U	<b>UJ</b> <u>JO</u>	0.257	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
2,2-Dichloropropane	U		0.0929	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Di-isopropyl ether	U		0.0924	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Ethylbenzene	U		0.158	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
2-Hexanone	U		0.757	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
n-Hexane	U		0.305	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Iodomethane	U	<b>UJ</b> <u>JO</u>	0.377	10.0	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Isopropylbenzene	U		0.126	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
p-Isopropyltoluene	U		0.138	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
2-Butanone (MEK)	U		1.28	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Methylene Chloride	U		1.07	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Methyl tert-butyl ether	U		0.102	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Naphthalene	U		0.174	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
n-Propylbenzene	U		0.162	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Styrene	U		0.117	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 10/19/18



Collected date/time: 09/06/18 00:00

L1024338

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Tetrachloroethene	U		0.199	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Toluene	U		0.412	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Trichloroethene	U		0.153	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Trichlorofluoromethane	U		0.130	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Vinyl acetate	U	UJ JO	0.645	5.00	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Vinyl chloride	U		0.118	0.500	1	09/13/2018 01:50	<a href="#">WG1164809</a>
Xylenes, Total	U		0.316	1.50	1	09/13/2018 01:50	<a href="#">WG1164809</a>
(S) Toluene-d8	107			80.0-120		09/13/2018 01:50	<a href="#">WG1164809</a>
(S) Dibromofluoromethane	92.9			75.0-120		09/13/2018 01:50	<a href="#">WG1164809</a>
(S) 4-Bromofluorobenzene	104			77.0-126		09/13/2018 01:50	<a href="#">WG1164809</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.9		1	09/18/2018 10:05	<a href="#">WG1166857</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0169	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Acrylonitrile	U		0.00235	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Benzene	U		0.000495	0.00124	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Bromobenzene	U		0.00130	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Bromodichloromethane	U		0.390	1.24	400	09/21/2018 14:38	<a href="#">WG1169487</a>
Bromochloromethane	U		0.00140	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Bromoform	U		0.00740	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Bromomethane	U		1.83	6.18	400	09/21/2018 14:38	<a href="#">WG1169487</a>
n-Butylbenzene	0.00916	J J	0.00475	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
sec-Butylbenzene	0.00315	J J	0.00313	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
tert-Butylbenzene	U		0.00192	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Carbon disulfide	U		0.00502	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Carbon tetrachloride	U		0.00134	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chlorobenzene	U		0.000709	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chlorodibromomethane	U		0.000557	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chloroethane	U		0.00134	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chloroform	U		0.000513	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Chloromethane	U		0.00172	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
2-Chlorotoluene	U		0.00114	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
4-Chlorotoluene	U		0.00140	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dibromo-3-Chloropropane	U		0.00631	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dibromoethane	U		0.000649	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Dibromomethane	U		0.00124	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dichlorobenzene	U		0.00179	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,3-Dichlorobenzene	U		0.00210	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,4-Dichlorobenzene	U	UJ J4	0.00244	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Dichlorodifluoromethane	U		0.00101	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1-Dichloroethane	U		0.000711	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dichloroethane	U		0.000587	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1-Dichloroethene	0.0130		0.000618	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
cis-1,2-Dichloroethene	2.18		0.341	1.24	400	09/21/2018 14:38	<a href="#">WG1169487</a>
trans-1,2-Dichloroethene	0.0248		0.00177	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2-Dichloropropane	U		0.00157	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1-Dichloropropene	U		0.000866	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,3-Dichloropropane	U		0.00216	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
cis-1,3-Dichloropropene	U	J4	0.000839	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
trans-1,3-Dichloropropene	U		0.00189	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
trans-1,4-Dichloro-2-butene	U		0.00173	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
2,2-Dichloropropane	U		0.000981	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Di-isopropyl ether	U		0.000433	0.00124	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Ethylbenzene	U		0.262	1.24	400	09/21/2018 14:38	<a href="#">WG1169487</a>
Hexachloro-1,3-butadiene	U		0.0157	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
2-Hexanone	U		0.0124	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
n-Hexane	0.00438	J J	0.00131	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Iodomethane	U		0.00748	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Isopropylbenzene	0.00161	J J	0.00107	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
p-Isopropyltoluene	0.00325	J J	0.00288	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
2-Butanone (MEK)	U		0.0155	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Methylene Chloride	0.00907	U BJ	0.00821	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
4-Methyl-2-pentanone (MIBK)	U		0.0124	0.0309	1	09/20/2018 18:29	<a href="#">WG1168763</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/10/18 10:30

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000365	0.00124	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Naphthalene	0.00746	J J	0.00386	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
n-Propylbenzene	0.00663		0.00146	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Styrene	U	UJ JO J4	0.00338	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,1,2-Tetrachloroethane	U		0.000618	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,2,2-Tetrachloroethane	U	J4	0.000482	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,2-Trichlorotrifluoroethane	U		0.000835	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Tetrachloroethene	210		0.346	1.24	400	09/21/2018 14:38	<a href="#">WG1169487</a>
Toluene	U		0.618	2.47	400	09/21/2018 14:38	<a href="#">WG1169487</a>
1,2,3-Trichlorobenzene	U		0.000773	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2,4-Trichlorobenzene	U		0.00596	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,1-Trichloroethane	U		0.000340	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,1,2-Trichloroethane	U		0.00109	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Trichloroethene	1.54		0.198	0.495	400	09/21/2018 14:38	<a href="#">WG1169487</a>
Trichlorofluoromethane	U		0.000618	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2,3-Trichloropropane	U		0.00631	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2,4-Trimethylbenzene	0.0427		0.00143	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,2,3-Trimethylbenzene	0.0149		0.00142	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
1,3,5-Trimethylbenzene	0.0148		0.00134	0.00618	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Vinyl acetate	U		0.00435	0.0155	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Vinyl chloride	U		0.000845	0.00309	1	09/20/2018 18:29	<a href="#">WG1168763</a>
Xylenes, Total	0.0121		0.00591	0.00804	1	09/20/2018 18:29	<a href="#">WG1168763</a>
(S) Toluene-d8	114			75.0-131		09/20/2018 18:29	<a href="#">WG1168763</a>
(S) Toluene-d8	101			75.0-131		09/21/2018 14:38	<a href="#">WG1169487</a>
(S) Dibromofluoromethane	91.9			65.0-129		09/20/2018 18:29	<a href="#">WG1168763</a>
(S) Dibromofluoromethane	103			65.0-129		09/21/2018 14:38	<a href="#">WG1169487</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/20/2018 18:29	<a href="#">WG1168763</a>
(S) 4-Bromofluorobenzene	109			67.0-138		09/21/2018 14:38	<a href="#">WG1169487</a>

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

Sample Narrative:

L1025469-01 WG1168763, WG1169487: Not all compounds reportable from 1x dilution.

L1025469-01 WG1168763, WG1169487: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	09/18/2018 10:05	<a href="#">WG1166857</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0164	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Acrylonitrile	U		0.00227	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Benzene	U		0.000478	0.00120	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Bromobenzene	U		0.00125	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Bromodichloromethane	U		0.376	1.20	432	09/21/2018 14:58	<a href="#">WG1169487</a>
Bromochloromethane	U		0.00135	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Bromoform	U		0.00715	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Bromomethane	U		1.77	5.98	432	09/21/2018 14:58	<a href="#">WG1169487</a>
n-Butylbenzene	0.00998	J J	0.00459	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
sec-Butylbenzene	0.00336	J J	0.00302	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
tert-Butylbenzene	U		0.00185	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Carbon disulfide	U		0.00485	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Carbon tetrachloride	U		0.00129	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chlorobenzene	U		0.000685	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chlorodibromomethane	U		0.000538	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chloroethane	U		0.00129	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chloroform	U		0.000496	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Chloromethane	U		0.00166	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
2-Chlorotoluene	U		0.00110	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
4-Chlorotoluene	U		0.00135	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dibromo-3-Chloropropane	U		0.00610	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dibromoethane	U		0.000628	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Dibromomethane	U		0.00120	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dichlorobenzene	U		0.00174	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,3-Dichlorobenzene	U		0.00204	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,4-Dichlorobenzene	U	UJ J4	0.00236	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Dichlorodifluoromethane	U		0.000977	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1-Dichloroethane	U		0.000687	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dichloroethane	U		0.000568	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1-Dichloroethene	0.0198		0.000598	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
cis-1,2-Dichloroethene	2.62		0.330	1.20	432	09/21/2018 14:58	<a href="#">WG1169487</a>
trans-1,2-Dichloroethene	0.0228		0.00170	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2-Dichloropropane	U		0.00152	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1-Dichloropropene	U		0.000837	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,3-Dichloropropane	U		0.00209	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
cis-1,3-Dichloropropene	U	J4	0.000810	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
trans-1,3-Dichloropropene	U		0.00183	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
trans-1,4-Dichloro-2-butene	U		0.00167	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
2,2-Dichloropropane	U		0.000947	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Di-isopropyl ether	U		0.000418	0.00120	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Ethylbenzene	U		0.253	1.20	432	09/21/2018 14:58	<a href="#">WG1169487</a>
Hexachloro-1,3-butadiene	U		0.0152	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
2-Hexanone	U		0.0120	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
n-Hexane	U		0.00126	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Iodomethane	U		0.00723	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Isopropylbenzene	0.00149	J J	0.00103	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
p-Isopropyltoluene	U		0.00279	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
2-Butanone (MEK)	U		0.0149	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Methylene Chloride	0.0112	U BJ	0.00794	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/10/18 10:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000353	0.00120	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Naphthalene	0.00881	J J	0.00373	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
n-Propylbenzene	0.00761		0.00141	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Styrene	U	UJ JO J4	0.00326	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,1,2-Tetrachloroethane	U		0.000598	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,2,2-Tetrachloroethane	U	J4	0.000466	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,2-Trichlorotrifluoroethane	U		0.000807	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Tetrachloroethene	309		0.334	1.20	432	09/21/2018 14:58	<a href="#">WG1169487</a>
Toluene	U		0.598	2.39	432	09/21/2018 14:58	<a href="#">WG1169487</a>
1,2,3-Trichlorobenzene	U		0.000747	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2,4-Trichlorobenzene	U		0.00576	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,1-Trichloroethane	U		0.000329	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,1,2-Trichloroethane	U		0.00106	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Trichloroethene	2.12		0.191	0.478	432	09/21/2018 14:58	<a href="#">WG1169487</a>
Trichlorofluoromethane	U		0.000598	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2,3-Trichloropropane	U		0.00610	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2,4-Trimethylbenzene	0.0481		0.00138	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,2,3-Trimethylbenzene	0.0159		0.00137	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
1,3,5-Trimethylbenzene	0.0170		0.00129	0.00598	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Vinyl acetate	U		0.00421	0.0149	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Vinyl chloride	U		0.000817	0.00299	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
Xylenes, Total	0.0127		0.00571	0.00777	1.08	09/20/2018 18:52	<a href="#">WG1168763</a>
(S) Toluene-d8	114			75.0-131		09/20/2018 18:52	<a href="#">WG1168763</a>
(S) Toluene-d8	109			75.0-131		09/21/2018 14:58	<a href="#">WG1169487</a>
(S) Dibromofluoromethane	92.3			65.0-129		09/20/2018 18:52	<a href="#">WG1168763</a>
(S) Dibromofluoromethane	103			65.0-129		09/21/2018 14:58	<a href="#">WG1169487</a>
(S) 4-Bromofluorobenzene	102			67.0-138		09/20/2018 18:52	<a href="#">WG1168763</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/21/2018 14:58	<a href="#">WG1169487</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1025469-02 WG1168763, WG1169487: Not all compounds reportable from 1x dilution.

L1025469-02 WG1168763, WG1169487: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.4		1	09/18/2018 10:05	<a href="#">WG1166857</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0152	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00210	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Benzene	U		0.000442	0.00111	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromobenzene	U		0.00116	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000872	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00125	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromoform	U		0.00661	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Bromomethane	U		0.00409	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00425	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00280	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00171	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00449	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00119	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000634	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chlorodibromomethane	0.000680	J J	0.000498	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chloroethane	U		0.00119	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chloroform	U		0.000459	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Chloromethane	U		0.00154	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00102	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00125	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00564	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000581	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Dibromomethane	U		0.00111	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00160	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00188	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00218	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000905	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000636	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000525	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000553	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.699		0.000763	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00418	J JJO	0.00158	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.0281	0.111	20	09/20/2018 17:33	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000774	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00194	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000750	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	UJ JO J4	0.00169	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00155	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
2,2-Dichloropropane	0.00144	J JJO	0.000877	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000387	0.00111	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000586	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0140	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
2-Hexanone	U		0.0111	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
n-Hexane	U	J4	0.0234	0.111	20	09/20/2018 17:33	<a href="#">WG1168808</a>
Iodomethane	U		0.00669	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000955	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00258	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.277	0.553	20	09/20/2018 17:33	<a href="#">WG1168808</a>
Methylene Chloride	U		0.00734	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0111	0.0277	1	09/20/2018 01:04	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/10/18 11:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000326	0.00111	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Naphthalene	U		0.00345	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00131	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Styrene	U	UJ J4	0.0604	0.277	20	09/20/2018 17:33	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	UJ JO J4	0.000553	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000431	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000747	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Tetrachloroethene	12.3		0.0155	0.0553	20	09/20/2018 17:33	<a href="#">WG1168808</a>
Toluene	0.00148	J J	0.00138	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000691	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00533	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000304	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000977	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Trichloroethene	0.128		0.000442	0.00111	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000553	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00564	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00194	J J	0.00128	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00127	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	U		0.00119	0.00553	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Vinyl acetate	U	UJ JO	0.00389	0.0138	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Vinyl chloride	0.0312		0.000755	0.00277	1	09/20/2018 01:04	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00529	0.00719	1	09/20/2018 01:04	<a href="#">WG1168529</a>
(S) Toluene-d8	103			75.0-131		09/20/2018 01:04	<a href="#">WG1168529</a>
(S) Toluene-d8	107			75.0-131		09/20/2018 17:33	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	105			65.0-129		09/20/2018 01:04	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	106			65.0-129		09/20/2018 17:33	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/20/2018 01:04	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	86.6			67.0-138		09/20/2018 17:33	<a href="#">WG1168808</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1025469-03 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-03 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.3		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0153	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00213	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Benzene	U		0.000448	0.00112	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromobenzene	U		0.00118	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000882	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00126	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromoform	U		0.00669	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Bromomethane	U		0.00414	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00430	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00283	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00173	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00454	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00121	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000641	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000504	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chloroethane	U		0.00121	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chloroform	U		0.000465	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Chloromethane	U		0.00156	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00103	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00126	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00571	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000588	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Dibromomethane	U		0.00112	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00162	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00190	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00221	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000916	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000644	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000532	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000560	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.282		0.000772	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00239	J JJO	0.00160	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.0284	0.112	20	09/20/2018 17:53	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000784	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00196	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000759	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	UJ JO J4	0.00171	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00157	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	UJ JO	0.000888	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000392	0.00112	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000593	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
2-Hexanone	U		0.0112	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
n-Hexane	U	J4	0.0237	0.112	20	09/20/2018 17:53	<a href="#">WG1168808</a>
Iodomethane	U		0.00677	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000966	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00261	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.280	0.560	20	09/20/2018 17:53	<a href="#">WG1168808</a>
Methylene Chloride	U		0.00743	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	09/20/2018 01:24	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Naphthalene	U		0.00349	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00132	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Styrene	U	UJ J4	0.0611	0.280	20	09/20/2018 17:53	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	UJ JO J4	0.000560	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000437	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000756	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Tetrachloroethene	18.6		0.0157	0.0560	20	09/20/2018 17:53	<a href="#">WG1168808</a>
Toluene	0.00223	J J	0.00140	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000700	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00540	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000308	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000988	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Trichloroethene	0.178		0.000448	0.00112	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000560	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00571	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00436	J J	0.00130	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00129	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	0.00144	J J	0.00121	0.00560	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Vinyl acetate	U	UJ JO	0.00394	0.0140	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Vinyl chloride	0.0297		0.000764	0.00280	1	09/20/2018 01:24	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00535	0.00728	1	09/20/2018 01:24	<a href="#">WG1168529</a>
(S) Toluene-d8	99.3			75.0-131		09/20/2018 01:24	<a href="#">WG1168529</a>
(S) Toluene-d8	105			75.0-131		09/20/2018 17:53	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	103			65.0-129		09/20/2018 01:24	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	108			65.0-129		09/20/2018 17:53	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	109			67.0-138		09/20/2018 01:24	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	93.8			67.0-138		09/20/2018 17:53	<a href="#">WG1168808</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

L1025469-04 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-04 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.4		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0144	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00199	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Benzene	U		0.000419	0.00105	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromobenzene	U		0.00110	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000826	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00118	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromoform	U		0.00627	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Bromomethane	U		0.00388	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00402	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00265	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00162	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00425	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00113	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000600	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000471	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chloroethane	0.0188		0.00113	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chloroform	U		0.000435	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Chloromethane	U		0.00146	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.000964	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00118	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00534	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000550	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Dibromomethane	U		0.00105	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00152	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00178	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00206	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000857	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000602	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000498	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000524	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.224		0.000723	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00591	J JO	0.00150	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00266	0.0105	2	09/20/2018 16:16	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000733	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00183	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000710	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	UJ JO J4	0.00160	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00147	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
2,2-Dichloropropane	0.000981	J JJO	0.000831	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000367	0.00105	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000555	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0133	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
2-Hexanone	U		0.0105	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
n-Hexane	0.00489	J JJ4	0.00222	0.0105	2	09/20/2018 16:16	<a href="#">WG1168808</a>
Iodomethane	U		0.00634	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000904	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00244	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0262	0.0524	2	09/20/2018 16:16	<a href="#">WG1168808</a>
Methylene Chloride	0.0112	U BJ	0.00696	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0105	0.0262	1	09/20/2018 01:44	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/11/18 08:55

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000309	0.00105	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Naphthalene	U		0.00327	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00124	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Styrene	U	UJ JO J4	0.00572	0.0262	2	09/20/2018 16:16	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	UJ JO J4	0.000524	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000409	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000707	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Tetrachloroethene	0.712		0.00147	0.00524	2	09/20/2018 16:16	<a href="#">WG1168808</a>
Toluene	U		0.00131	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000655	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00505	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000288	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000925	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Trichloroethene	0.0173		0.000419	0.00105	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000524	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00534	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	U		0.00122	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00120	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	U		0.00113	0.00524	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Vinyl acetate	U	UJ JO	0.00369	0.0131	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Vinyl chloride	0.0146		0.000716	0.00262	1	09/20/2018 01:44	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00501	0.00681	1	09/20/2018 01:44	<a href="#">WG1168529</a>
(S) Toluene-d8	105			75.0-131		09/20/2018 01:44	<a href="#">WG1168529</a>
(S) Toluene-d8	117			75.0-131		09/20/2018 16:16	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	103			65.0-129		09/20/2018 01:44	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	93.4			65.0-129		09/20/2018 16:16	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/20/2018 01:44	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	86.9			67.0-138		09/20/2018 16:16	<a href="#">WG1168808</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.5		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00215	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Benzene	U		0.000452	0.00113	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromobenzene	U		0.00119	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000890	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00128	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromoform	U		0.00676	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Bromomethane	U		0.00418	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00434	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00286	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00175	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00459	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00122	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000647	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000508	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chloroethane	0.0149		0.00122	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chloroform	U		0.000469	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Chloromethane	U		0.00157	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00104	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00128	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00576	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000593	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Dibromomethane	U		0.00113	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00164	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00192	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00223	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000924	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000650	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000537	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1-Dichloroethene	0.0365		0.000565	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	3.90		0.0312	0.113	40	09/20/2018 18:12	<a href="#">WG1168808</a>
trans-1,2-Dichloroethene	0.0111	UJ JO	0.00162	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.0574	0.226	40	09/20/2018 18:12	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000791	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00198	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000766	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	UJ JO J4	0.00173	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00158	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	UJ JO	0.000896	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000395	0.00113	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Ethylbenzene	0.000834	J J	0.000599	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
2-Hexanone	U		0.0113	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
n-Hexane	U	J4	0.0479	0.226	40	09/20/2018 18:12	<a href="#">WG1168808</a>
Iodomethane	U		0.00684	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000975	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00263	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.565	1.13	40	09/20/2018 18:12	<a href="#">WG1168808</a>
Methylene Chloride	U		0.00750	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	09/20/2018 02:04	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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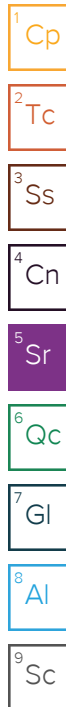


Collected date/time: 09/11/18 09:50

L1025469

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000333	0.00113	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Naphthalene	U		0.00353	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
n-Propylbenzene	0.00287	J J	0.00133	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Styrene	U	UJ J4	0.123	0.565	40	09/20/2018 18:12	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	UJ JO J4	0.000565	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000441	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000763	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Tetrachloroethene	56.7		0.0316	0.113	40	09/20/2018 18:12	<a href="#">WG1168808</a>
Toluene	0.00389	J J	0.00141	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000706	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000311	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000998	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Trichloroethene	4.36		0.0181	0.0452	40	09/20/2018 18:12	<a href="#">WG1168808</a>
Trichlorofluoromethane	U		0.000565	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00576	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00887		0.00131	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	0.00267	J J	0.00130	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	0.00398	J J	0.00122	0.00565	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Vinyl acetate	U	UJ JO	0.00398	0.0141	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Vinyl chloride	0.0180		0.000772	0.00282	1	09/20/2018 02:04	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00540	0.00734	1	09/20/2018 02:04	<a href="#">WG1168529</a>
(S) Toluene-d8	106			75.0-131		09/20/2018 02:04	<a href="#">WG1168529</a>
(S) Toluene-d8	105			75.0-131		09/20/2018 18:12	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	101			65.0-129		09/20/2018 02:04	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	110			65.0-129		09/20/2018 18:12	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	108			67.0-138		09/20/2018 02:04	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	83.7			67.0-138		09/20/2018 18:12	<a href="#">WG1168808</a>



## Sample Narrative:

L1025469-06 WG1168529, WG1168808: Not all compounds reportable from 1x dilution.

L1025469-06 WG1168529, WG1168808: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0154	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00213	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Benzene	U		0.000449	0.00112	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromobenzene	U		0.00118	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000884	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00127	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromoform	U		0.00671	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Bromomethane	U		0.00415	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00431	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00284	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00174	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00456	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00121	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000643	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000505	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chloroethane	U		0.00121	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chloroform	U		0.000466	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Chloromethane	U		0.00156	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00103	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00127	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00572	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000589	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Dibromomethane	U		0.00112	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00163	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00191	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00221	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000918	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000645	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000533	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000561	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.244		0.000774	0.00281	1	09/20/2018 16:35	<a href="#">WG1168808</a>
trans-1,2-Dichloroethene	0.00171	J JJO	0.00160	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00143	0.00561	1	09/20/2018 16:35	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000786	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00196	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000761	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	UJ JO J4	0.00172	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00157	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	UJ JO	0.000890	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000393	0.00112	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000595	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
2-Hexanone	U		0.0112	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
n-Hexane	0.00251	J JJ4	0.00119	0.00561	1	09/20/2018 16:35	<a href="#">WG1168808</a>
Iodomethane	U		0.00679	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000969	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00262	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0140	0.0281	1	09/20/2018 16:35	<a href="#">WG1168808</a>
Methylene Chloride	0.0102	U BJ	0.00745	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0281	1	09/20/2018 02:24	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/11/18 11:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000331	0.00112	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Naphthalene	U		0.00350	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00132	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Styrene	U	UJ JO J4	0.00306	0.0140	1	09/20/2018 16:35	<a href="#">WG1168808</a>
1,1,1,2-Tetrachloroethane	U	UJ JO J4	0.000561	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000438	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000758	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Tetrachloroethene	1.60		0.000786	0.00281	1	09/20/2018 16:35	<a href="#">WG1168808</a>
Toluene	0.00166	J J	0.00140	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000701	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000309	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000991	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Trichloroethene	0.100		0.000449	0.00112	1	09/20/2018 16:35	<a href="#">WG1168808</a>
Trichlorofluoromethane	U		0.000561	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00572	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Vinyl acetate	U	UJ JO	0.00395	0.0140	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Vinyl chloride	U		0.000767	0.00281	1	09/20/2018 02:24	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00536	0.00730	1	09/20/2018 02:24	<a href="#">WG1168529</a>
(S) Toluene-d8	104			75.0-131		09/20/2018 02:24	<a href="#">WG1168529</a>
(S) Toluene-d8	119			75.0-131		09/20/2018 16:35	<a href="#">WG1168808</a>
(S) Dibromofluoromethane	102			65.0-129		09/20/2018 02:24	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	87.3			65.0-129		09/20/2018 16:35	<a href="#">WG1168808</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/20/2018 02:24	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	88.7			67.0-138		09/20/2018 16:35	<a href="#">WG1168808</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.1		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0671		0.0154	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00213	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Benzene	0.000525	J J	0.000449	0.00112	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromobenzene	U		0.00118	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000884	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00127	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromoform	U		0.00671	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Bromomethane	U		0.00415	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00431	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00284	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00174	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00455	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00121	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000643	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000505	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chloroethane	0.0282		0.00121	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chloroform	U		0.000466	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Chloromethane	U		0.00156	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00103	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00127	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00572	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000589	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Dibromomethane	U		0.00112	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00163	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00191	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00221	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000918	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000645	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000533	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,1-Dichloroethene	U		0.000561	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.00943		0.000774	0.00280	1	09/20/2018 17:14	<a href="#">WG1168808</a>
trans-1,2-Dichloroethene	U	UJ JO	0.00160	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00142	0.00561	1	09/20/2018 17:14	<a href="#">WG1168808</a>
1,1-Dichloropropene	U		0.000785	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00196	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000761	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	0.00600	J JO J4	0.00172	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00157	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
2,2-Dichloropropane	0.00171	J JJO	0.000890	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000393	0.00112	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000595	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0142	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
2-Hexanone	U		0.0112	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
n-Hexane	0.00162	J JJ4	0.00119	0.00561	1	09/20/2018 17:14	<a href="#">WG1168808</a>
Iodomethane	U		0.00679	0.0140	1	09/20/2018 02:44	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000968	0.00280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00261	0.00561	1	09/20/2018 02:44	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0140	0.0280	1	09/20/2018 17:14	<a href="#">WG1168808</a>
Methylene Chloride	0.00858	U BJ	0.00745	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0280	1	09/20/2018 02:44	<a href="#">WG1168529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 10/19/18

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.304

SDG:

L1025469

DATE/TIME:

09/21/18 18:02

PAGE:

20 of 55



Collected date/time: 09/11/18 12:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.000562	J J	0.000331	0.00112	1	09/20/2018 02:44	WG1168529
Naphthalene	U		0.00350	0.0140	1	09/20/2018 02:44	WG1168529
n-Propylbenzene	U		0.00132	0.00561	1	09/20/2018 02:44	WG1168529
Styrene	U	UJ J4	0.00306	0.0140	1	09/20/2018 17:14	WG1168808
1,1,1,2-Tetrachloroethane	U	UJ JO J4	0.000561	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2,2-Tetrachloroethane	U		0.000438	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2-Trichlorotrifluoroethane	U		0.000757	0.00280	1	09/20/2018 02:44	WG1168529
Tetrachloroethene	0.0728		0.000785	0.00280	1	09/20/2018 17:14	WG1168808
Toluene	0.00304	J J	0.00140	0.00561	1	09/20/2018 02:44	WG1168529
1,2,3-Trichlorobenzene	U		0.000701	0.00280	1	09/20/2018 02:44	WG1168529
1,2,4-Trichlorobenzene	U		0.00541	0.0140	1	09/20/2018 02:44	WG1168529
1,1,1-Trichloroethane	U		0.000309	0.00280	1	09/20/2018 02:44	WG1168529
1,1,2-Trichloroethane	U		0.000991	0.00280	1	09/20/2018 02:44	WG1168529
Trichloroethene	0.00797		0.000449	0.00112	1	09/20/2018 17:14	WG1168808
Trichlorofluoromethane	U		0.000561	0.00280	1	09/20/2018 02:44	WG1168529
1,2,3-Trichloropropane	U		0.00572	0.0140	1	09/20/2018 02:44	WG1168529
1,2,4-Trimethylbenzene	U		0.00130	0.00561	1	09/20/2018 02:44	WG1168529
1,2,3-Trimethylbenzene	U		0.00129	0.00561	1	09/20/2018 02:44	WG1168529
1,3,5-Trimethylbenzene	U		0.00121	0.00561	1	09/20/2018 02:44	WG1168529
Vinyl acetate	U	UJ JO	0.00395	0.0140	1	09/20/2018 02:44	WG1168529
Vinyl chloride	U		0.000766	0.00280	1	09/20/2018 02:44	WG1168529
Xylenes, Total	U		0.00536	0.00729	1	09/20/2018 02:44	WG1168529
(S) Toluene-d8	94.8			75.0-131		09/20/2018 02:44	WG1168529
(S) Toluene-d8	118			75.0-131		09/20/2018 17:14	WG1168808
(S) Dibromofluoromethane	107			65.0-129		09/20/2018 02:44	WG1168529
(S) Dibromofluoromethane	88.7			65.0-129		09/20/2018 17:14	WG1168808
(S) 4-Bromofluorobenzene	106			67.0-138		09/20/2018 02:44	WG1168529
(S) 4-Bromofluorobenzene	94.9			67.0-138		09/20/2018 17:14	WG1168808

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.8		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0151	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00209	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Benzene	0.000604	J J	0.000441	0.00110	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromobenzene	U		0.00116	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000868	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00124	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromoform	U		0.00659	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Bromomethane	U		0.00408	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00423	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00279	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00171	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00447	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00119	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000631	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000496	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chloroethane	U		0.00119	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chloroform	U		0.000457	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Chloromethane	U		0.00153	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00101	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00124	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00562	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000578	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Dibromomethane	U		0.00110	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00160	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00187	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00217	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000901	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000633	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000523	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1-Dichloroethene	0.00762		0.000551	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.0189		0.000760	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00742	J JO	0.00158	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00140	0.00551	1	09/20/2018 23:35	<a href="#">WG1169029</a>
1,1-Dichloropropene	U		0.000771	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00193	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000747	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	0.00731	J JO J4	0.00169	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00154	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	UJ JO	0.000874	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000386	0.00110	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Ethylbenzene	U		0.000584	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0140	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
2-Hexanone	U		0.0110	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
n-Hexane	0.00146	J J	0.00117	0.00551	1	09/21/2018 15:32	<a href="#">WG1169450</a>
Iodomethane	U		0.00666	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000951	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00257	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0138	0.0275	1	09/20/2018 23:35	<a href="#">WG1169029</a>
Methylene Chloride	U		0.00731	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0275	1	09/20/2018 03:04	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/11/18 12:35

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Naphthalene	U		0.00344	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00130	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Styrene	U		0.00301	0.0138	1	09/20/2018 23:35	<a href="#">WG1169029</a>
1,1,1,2-Tetrachloroethane	U	<b>UJ</b> <u>JO J4</u>	0.000551	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000430	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000744	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Tetrachloroethene	2.31		0.000771	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Toluene	0.00291	<b>J</b> <u>J</u>	0.00138	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000689	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00531	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000303	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000973	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Trichloroethene	0.502		0.000441	0.00110	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000551	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00562	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	U		0.00128	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00127	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	U		0.00119	0.00551	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Vinyl acetate	U	<b>UJ</b> <u>JO</u>	0.00388	0.0138	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Vinyl chloride	U		0.000752	0.00275	1	09/20/2018 03:04	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00527	0.00716	1	09/20/2018 03:04	<a href="#">WG1168529</a>
(S) Toluene-d8	105			75.0-131		09/20/2018 03:04	<a href="#">WG1168529</a>
(S) Toluene-d8	102			75.0-131		09/20/2018 23:35	<a href="#">WG1169029</a>
(S) Toluene-d8	116			75.0-131		09/21/2018 15:32	<a href="#">WG1169450</a>
(S) Dibromofluoromethane	101			65.0-129		09/20/2018 03:04	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	107			65.0-129		09/20/2018 23:35	<a href="#">WG1169029</a>
(S) Dibromofluoromethane	91.4			65.0-129		09/21/2018 15:32	<a href="#">WG1169450</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/20/2018 03:04	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	106			67.0-138		09/20/2018 23:35	<a href="#">WG1169029</a>
(S) 4-Bromofluorobenzene	85.2			67.0-138		09/21/2018 15:32	<a href="#">WG1169450</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0155	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00215	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Benzene	0.000701	J J	0.000453	0.00113	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromobenzene	U		0.00119	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000893	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00128	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromoform	U		0.00677	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Bromomethane	U		0.00419	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00435	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00287	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00176	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00460	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00122	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000649	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000510	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chloroethane	0.0244		0.00122	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chloroform	U		0.000470	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Chloromethane	U		0.00157	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.00104	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00128	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00578	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000595	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Dibromomethane	U		0.00113	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00164	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00193	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00223	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000927	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000651	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000538	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1-Dichloroethene	0.00354		0.000566	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.0212		0.000782	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	0.00528	J JJO	0.00162	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.0116	0.0453	8	09/20/2018 23:53	<a href="#">WG1169029</a>
1,1-Dichloropropene	U		0.000793	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00198	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000768	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	UJ JO J4	0.00173	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00159	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
2,2-Dichloropropane	0.00316	J JO	0.000898	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000396	0.00113	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Ethylbenzene	0.000606	J J	0.000600	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
2-Hexanone	U		0.0113	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
n-Hexane	U		0.00961	0.0453	8	09/21/2018 15:52	<a href="#">WG1169450</a>
Iodomethane	U		0.00685	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000978	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00264	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.113	0.227	8	09/20/2018 23:53	<a href="#">WG1169029</a>
Methylene Chloride	0.00858	U BJ	0.00752	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/20/2018 03:24	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/11/18 14:30

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.00135		0.000334	0.00113	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Naphthalene	U		0.00353	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00134	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Styrene	U		0.0247	0.113	8	09/20/2018 23:53	<a href="#">WG1169029</a>
1,1,1,2-Tetrachloroethane	U	UJ JO J4	0.000566	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000442	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000765	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Tetrachloroethene	5.03		0.00634	0.0227	8	09/20/2018 23:53	<a href="#">WG1169029</a>
Toluene	0.00318	J J	0.00142	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	0.00174	J J	0.000708	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00546	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000312	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.00100	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Trichloroethene	0.616		0.000453	0.00113	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000566	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00578	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00133	J J	0.00131	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00130	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	0.00133	J J	0.00122	0.00566	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Vinyl acetate	U	UJ JO	0.00399	0.0142	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Vinyl chloride	U		0.000774	0.00283	1	09/20/2018 03:24	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00541	0.00736	1	09/20/2018 03:24	<a href="#">WG1168529</a>
(S) Toluene-d8	108			75.0-131		09/20/2018 03:24	<a href="#">WG1168529</a>
(S) Toluene-d8	100			75.0-131		09/20/2018 23:53	<a href="#">WG1169029</a>
(S) Toluene-d8	108			75.0-131		09/21/2018 15:52	<a href="#">WG1169450</a>
(S) Dibromofluoromethane	102			65.0-129		09/20/2018 03:24	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	109			65.0-129		09/20/2018 23:53	<a href="#">WG1169029</a>
(S) Dibromofluoromethane	107			65.0-129		09/21/2018 15:52	<a href="#">WG1169450</a>
(S) 4-Bromofluorobenzene	108			67.0-138		09/20/2018 03:24	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/20/2018 23:53	<a href="#">WG1169029</a>
(S) 4-Bromofluorobenzene	85.4			67.0-138		09/21/2018 15:52	<a href="#">WG1169450</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1025469-10 WG1168529, WG1169029: Not all compounds reportable from 1x dilution.  
 L1025469-10 WG1168529, WG1169029: Cannot be re-analyzed at a lower dilution due to high levels of target analytes.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.5		1	09/17/2018 15:11	<a href="#">WG1166858</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0590		0.0147	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Acrylonitrile	U		0.00203	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Benzene	0.000455	J J	0.000428	0.00107	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromobenzene	U		0.00112	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromodichloromethane	U		0.000843	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromochloromethane	U		0.00121	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromoform	U		0.00640	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Bromomethane	U		0.00396	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
n-Butylbenzene	U		0.00411	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
sec-Butylbenzene	U		0.00271	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
tert-Butylbenzene	U		0.00166	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Carbon disulfide	U		0.00434	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Carbon tetrachloride	U		0.00116	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chlorobenzene	U		0.000613	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chlorodibromomethane	U		0.000482	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chloroethane	0.0265		0.00116	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chloroform	U		0.000444	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Chloromethane	U		0.00149	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
2-Chlorotoluene	U		0.000984	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
4-Chlorotoluene	U		0.00121	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00546	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dibromoethane	U		0.000562	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Dibromomethane	U		0.00107	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dichlorobenzene	U		0.00155	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,3-Dichlorobenzene	U		0.00182	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,4-Dichlorobenzene	U		0.00211	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Dichlorodifluoromethane	U		0.000875	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1-Dichloroethane	U		0.000615	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dichloroethane	U		0.000508	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1-Dichloroethene	0.00469		0.000535	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
cis-1,2-Dichloroethene	0.242		0.000738	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
trans-1,2-Dichloroethene	U	UJ JO	0.00153	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2-Dichloropropane	U		0.00544	0.0214	4	09/21/2018 00:12	<a href="#">WG1169029</a>
1,1-Dichloropropene	U		0.000749	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,3-Dichloropropane	U		0.00187	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
cis-1,3-Dichloropropene	U		0.000725	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
trans-1,3-Dichloropropene	U	UJ JO J4	0.00164	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00150	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
2,2-Dichloropropane	U	UJ JO	0.000849	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Di-isopropyl ether	U		0.000375	0.00107	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Ethylbenzene	0.000628	J J	0.000567	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Hexachloro-1,3-butadiene	U		0.0136	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
2-Hexanone	U		0.0107	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
n-Hexane	U		0.00454	0.0214	4	09/21/2018 16:11	<a href="#">WG1169450</a>
Iodomethane	U		0.00647	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Isopropylbenzene	U		0.000923	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
p-Isopropyltoluene	U	UJ J4	0.00249	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
2-Butanone (MEK)	U		0.0535	0.107	4	09/21/2018 00:12	<a href="#">WG1169029</a>
Methylene Chloride	0.00833	U B J	0.00710	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
4-Methyl-2-pentanone (MIBK)	U		0.0107	0.0268	1	09/20/2018 03:43	<a href="#">WG1168529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18





Collected date/time: 09/11/18 16:30

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	0.00144		0.000316	0.00107	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Naphthalene	U		0.00334	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
n-Propylbenzene	U		0.00126	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Styrene	U		0.0117	0.0535	4	09/21/2018 00:12	<a href="#">WG1169029</a>
1,1,1,2-Tetrachloroethane	U	UJ JO J4	0.000535	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1,2,2-Tetrachloroethane	U		0.000417	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1,2-Trichlorotrifluoroethane	U		0.000722	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Tetrachloroethene	2.32		0.000749	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Toluene	0.00333	J J	0.00134	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,3-Trichlorobenzene	U		0.000669	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,4-Trichlorobenzene	U		0.00516	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1,1-Trichloroethane	U		0.000294	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,1,2-Trichloroethane	U		0.000945	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Trichloroethene	0.282		0.000428	0.00107	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Trichlorofluoromethane	U		0.000535	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,3-Trichloropropane	U		0.00546	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,4-Trimethylbenzene	0.00271	J J	0.00124	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,2,3-Trimethylbenzene	U		0.00123	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
1,3,5-Trimethylbenzene	0.00118	J J	0.00116	0.00535	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Vinyl acetate	U	UJ JO	0.00377	0.0134	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Vinyl chloride	0.00390		0.000731	0.00268	1	09/20/2018 03:43	<a href="#">WG1168529</a>
Xylenes, Total	U		0.00511	0.00696	1	09/20/2018 03:43	<a href="#">WG1168529</a>
(S) Toluene-d8	90.9			75.0-131		09/20/2018 03:43	<a href="#">WG1168529</a>
(S) Toluene-d8	94.4			75.0-131		09/21/2018 00:12	<a href="#">WG1169029</a>
(S) Toluene-d8	108			75.0-131		09/21/2018 16:11	<a href="#">WG1169450</a>
(S) Dibromofluoromethane	104			65.0-129		09/20/2018 03:43	<a href="#">WG1168529</a>
(S) Dibromofluoromethane	114			65.0-129		09/21/2018 00:12	<a href="#">WG1169029</a>
(S) Dibromofluoromethane	105			65.0-129		09/21/2018 16:11	<a href="#">WG1169450</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/20/2018 03:43	<a href="#">WG1168529</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/21/2018 00:12	<a href="#">WG1169029</a>
(S) 4-Bromofluorobenzene	93.0			67.0-138		09/21/2018 16:11	<a href="#">WG1169450</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Acrylonitrile	U		0.873	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Benzene	U		0.0896	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromobenzene	U		0.133	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromodichloromethane	U		0.0800	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromochloromethane	U		0.145	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromoform	U		0.186	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Bromomethane	U		0.157	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
n-Butylbenzene	U		0.143	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
sec-Butylbenzene	U		0.134	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
tert-Butylbenzene	U		0.183	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Carbon disulfide	U		0.101	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Carbon tetrachloride	U		0.159	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chlorobenzene	U		0.140	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chlorodibromomethane	U		0.128	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chloroethane	U		0.141	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chloroform	U		0.0860	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Chloromethane	U		0.153	1.25	1	09/14/2018 16:28	<a href="#">WG1166389</a>
2-Chlorotoluene	U		0.111	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
4-Chlorotoluene	U		0.0972	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dibromoethane	U		0.193	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Dibromomethane	U		0.117	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Dichlorodifluoromethane	U		0.127	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1-Dichloroethane	U		0.114	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dichloroethane	U		0.108	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1-Dichloroethene	U		0.188	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2-Dichloropropane	U		0.190	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1-Dichloropropene	U		0.128	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,3-Dichloropropane	U		0.147	1.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
2,2-Dichloropropane	U		0.0929	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Di-isopropyl ether	U		0.0924	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Ethylbenzene	U		0.158	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
2-Hexanone	U		0.757	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
n-Hexane	U		0.305	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Iodomethane	U		0.377	10.0	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Isopropylbenzene	U		0.126	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
p-Isopropyltoluene	U		0.138	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
2-Butanone (MEK)	U		1.28	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Methylene Chloride	U		1.07	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Methyl tert-butyl ether	U		0.102	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Naphthalene	U		0.174	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
n-Propylbenzene	U		0.162	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Styrene	U		0.117	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/10/18 00:00

L1025469

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Tetrachloroethene	U		0.199	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Toluene	U		0.412	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Trichloroethene	U		0.153	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Trichlorofluoromethane	U		0.130	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Vinyl acetate	U		0.645	5.00	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Vinyl chloride	U		0.118	0.500	1	09/14/2018 16:28	<a href="#">WG1166389</a>
Xylenes, Total	U		0.316	1.50	1	09/14/2018 16:28	<a href="#">WG1166389</a>
(S) Toluene-d8	103			80.0-120		09/14/2018 16:28	<a href="#">WG1166389</a>
(S) Dibromofluoromethane	101			75.0-120		09/14/2018 16:28	<a href="#">WG1166389</a>
(S) 4-Bromofluorobenzene	90.1			77.0-126		09/14/2018 16:28	<a href="#">WG1166389</a>

- 1 Cp
- 2 Tc
- 3 Ss
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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.6		1	09/20/2018 11:19	<a href="#">WG1168410</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		3.16	5.77	200	09/23/2018 20:01	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00219	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Benzene	U		0.000462	0.00115	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromobenzene	U		0.00121	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000910	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00130	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromoform	U		0.00690	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Bromomethane	U		0.00427	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00443	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00292	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00179	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00469	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00125	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000661	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000519	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Chloroethane	U		0.249	1.15	200	09/23/2018 20:01	<a href="#">WG1170348</a>
Chloroform	U		0.000479	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Chloromethane	U		0.00160	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00106	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00130	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	<b>UJ</b> <a href="#">JO</a>	0.00589	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000606	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Dibromomethane	U		0.00115	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00167	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00196	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00227	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000944	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000664	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000548	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1-Dichloroethene	U		0.000577	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	0.00700		0.000796	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00165	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.293	1.15	200	09/23/2018 20:01	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000808	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00202	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000783	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00177	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	<b>UJ</b> <a href="#">JO</a>	0.00162	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000915	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000404	0.00115	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000612	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0147	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
2-Hexanone	U		0.0115	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
n-Hexane	U		0.00122	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Iodomethane	U	<a href="#">J4</a>	0.00698	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000996	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00269	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
2-Butanone (MEK)	0.0472		0.0144	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00766	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0289	1	09/21/2018 22:18	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000340	0.00115	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Naphthalene	U		0.00360	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00136	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Styrene	U		0.00315	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000577	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000450	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000779	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Tetrachloroethene	48.1		0.162	0.577	200	09/23/2018 20:01	<a href="#">WG1170348</a>
Toluene	0.00424	J	0.00144	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.144	0.577	200	09/23/2018 20:01	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00556	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000317	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.00102	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Trichloroethene	0.0503		0.000462	0.00115	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000577	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00589	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00204	J	0.00134	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	U		0.00133	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00125	0.00577	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Vinyl acetate	U	UJ	0.00406	0.0144	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Vinyl chloride	U		0.000788	0.00289	1	09/21/2018 22:18	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00552	0.00750	1	09/21/2018 22:18	<a href="#">WG1169827</a>
(S) Toluene-d8	117			75.0-131		09/21/2018 22:18	<a href="#">WG1169827</a>
(S) Toluene-d8	122			75.0-131		09/23/2018 20:01	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	102			65.0-129		09/21/2018 22:18	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	99.1			65.0-129		09/23/2018 20:01	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	95.5			67.0-138		09/21/2018 22:18	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	103			67.0-138		09/23/2018 20:01	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1026432-01 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1026432-01 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.3		1	09/20/2018 11:19	<a href="#">WG1168410</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	mg/kg		mg/kg	mg/kg		date / time		
Acetone	U		0.0159	0.0290	1	09/23/2018 16:50	<a href="#">WG1170348</a>	
Acrylonitrile	U		0.00220	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Benzene	U		0.000463	0.00116	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Bromobenzene	U		0.00122	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Bromodichloromethane	U		0.000913	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Bromochloromethane	U		0.00131	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Bromoform	U		0.00693	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Bromomethane	U		0.00429	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
n-Butylbenzene	U		0.00445	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
sec-Butylbenzene	U		0.00293	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
tert-Butylbenzene	U		0.00180	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Carbon disulfide	U		0.00470	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Carbon tetrachloride	U		0.00125	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Chlorobenzene	U		0.000664	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Chlorodibromomethane	U		0.000521	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Chloroethane	U		0.00125	0.00579	1	09/23/2018 16:50	<a href="#">WG1170348</a>	
Chloroform	U		0.000481	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Chloromethane	U		0.00161	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
2-Chlorotoluene	U		0.00107	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
4-Chlorotoluene	U		0.00131	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,2-Dibromo-3-Chloropropane	U	<b>UJ</b> <u>JO</u>	0.00591	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,2-Dibromoethane	U		0.000608	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Dibromomethane	U		0.00116	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,2-Dichlorobenzene	U		0.00168	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,3-Dichlorobenzene	U		0.00197	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,4-Dichlorobenzene	U		0.00228	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Dichlorodifluoromethane	U		0.000947	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,1-Dichloroethane	U		0.000666	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,2-Dichloroethane	U		0.000550	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,1-Dichloroethene	U		0.000579	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
cis-1,2-Dichloroethene	U		0.000799	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
trans-1,2-Dichloroethene	U		0.00166	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,2-Dichloropropane	U		0.00147	0.00579	1	09/23/2018 16:50	<a href="#">WG1170348</a>	
1,1-Dichloropropene	U		0.000811	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
1,3-Dichloropropane	U		0.00203	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
cis-1,3-Dichloropropene	U		0.000785	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
trans-1,3-Dichloropropene	U		0.00177	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
trans-1,4-Dichloro-2-butene	U	<b>UJ</b> <u>JO</u>	0.00162	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
2,2-Dichloropropane	U		0.000918	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Di-isopropyl ether	U		0.000405	0.00116	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Ethylbenzene	U		0.000614	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Hexachloro-1,3-butadiene	U		0.0147	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
2-Hexanone	U		0.0116	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
n-Hexane	U		0.00123	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Iodomethane	U		<u>J4</u>	0.00701	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.00100	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
p-Isopropyltoluene	U		0.00270	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
2-Butanone (MEK)	U		0.0145	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
Methylene Chloride	0.00867	<b>J</b> <u>J</u>	0.00769	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	
4-Methyl-2-pentanone (MIBK)	U		0.0116	0.0290	1	09/21/2018 22:37	<a href="#">WG1169827</a>	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000342	0.00116	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Naphthalene	U		0.00361	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00137	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Styrene	U		0.00316	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000579	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000452	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000782	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Tetrachloroethene	0.0827		0.000811	0.00290	1	09/23/2018 16:50	<a href="#">WG1170348</a>
Toluene	0.00537	J J	0.00145	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.000724	0.00290	1	09/23/2018 16:50	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00558	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000319	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.00102	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Trichloroethene	U		0.000463	0.00116	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000579	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00591	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00160	J J	0.00134	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	U		0.00133	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00125	0.00579	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Vinyl acetate	U	UJ JO	0.00408	0.0145	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Vinyl chloride	U		0.000791	0.00290	1	09/21/2018 22:37	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00554	0.00753	1	09/21/2018 22:37	<a href="#">WG1169827</a>
(S) Toluene-d8	87.9			75.0-131		09/21/2018 22:37	<a href="#">WG1169827</a>
(S) Toluene-d8	106			75.0-131		09/23/2018 16:50	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	102			65.0-129		09/21/2018 22:37	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	101			65.0-129		09/23/2018 16:50	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	102			67.0-138		09/21/2018 22:37	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/23/2018 16:50	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
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- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	09/20/2018 11:19	<a href="#">WG1168410</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch	
	mg/kg		mg/kg	mg/kg		date / time		
Acetone	U		1.24	2.26	80	09/23/2018 20:25	<a href="#">WG1170348</a>	
Acrylonitrile	U		0.00215	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Benzene	U		0.000452	0.00113	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Bromobenzene	U		0.00119	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Bromodichloromethane	U		0.000891	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Bromochloromethane	U		0.00128	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Bromoform	U		0.00676	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Bromomethane	U		0.00419	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
n-Butylbenzene	U		0.00434	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
sec-Butylbenzene	U		0.00286	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
tert-Butylbenzene	U		0.00175	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Carbon disulfide	U		0.00459	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Carbon tetrachloride	U		0.00122	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Chlorobenzene	U		0.000648	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Chlorodibromomethane	U		0.000509	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Chloroethane	U		0.0977	0.452	80	09/23/2018 20:25	<a href="#">WG1170348</a>	
Chloroform	U		0.000469	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Chloromethane	U		0.00157	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
2-Chlorotoluene	U		0.00104	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
4-Chlorotoluene	U		0.00128	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,2-Dibromo-3-Chloropropane	U	UJ	JO	0.00577	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000594	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Dibromomethane	U		0.00113	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,2-Dichlorobenzene	U		0.00164	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,3-Dichlorobenzene	U		0.00192	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,4-Dichlorobenzene	U		0.00223	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Dichlorodifluoromethane	U		0.000925	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,1-Dichloroethane	U		0.000650	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,2-Dichloroethane	U		0.000537	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,1-Dichloroethene	U		0.000566	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
cis-1,2-Dichloroethene	1.06		0.000781	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
trans-1,2-Dichloroethene	U		0.00162	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,2-Dichloropropane	U		0.115	0.452	80	09/23/2018 20:25	<a href="#">WG1170348</a>	
1,1-Dichloropropene	U		0.000792	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
1,3-Dichloropropane	U		0.00198	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
cis-1,3-Dichloropropene	U		0.000767	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
trans-1,3-Dichloropropene	U		0.00173	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
trans-1,4-Dichloro-2-butene	U	UJ	JO	0.00158	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000897	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Di-isopropyl ether	U		0.000396	0.00113	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Ethylbenzene	U		0.000600	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Hexachloro-1,3-butadiene	U		0.0144	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
2-Hexanone	U		0.0113	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
n-Hexane	U		0.00120	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
Iodomethane	U		J4	0.00684	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000976	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
p-Isopropyltoluene	U		0.00264	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
2-Butanone (MEK)	0.0163	J	J	0.0141	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00751	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0283	1	09/21/2018 22:56	<a href="#">WG1169827</a>	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000334	0.00113	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Naphthalene	U		0.00353	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00133	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Styrene	U		0.00309	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000566	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000441	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000764	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Tetrachloroethene	47.1		0.0633	0.226	80	09/23/2018 20:25	<a href="#">WG1170348</a>
Toluene	U		0.00141	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.0566	0.226	80	09/23/2018 20:25	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00545	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000311	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000999	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Trichloroethene	1.04		0.000452	0.00113	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000566	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00577	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00711		0.00131	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00306	J ↓	0.00130	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	0.00241	J ↓ UJ JO	0.00122	0.00566	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Vinyl acetate	U		0.00398	0.0141	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Vinyl chloride	0.0522		0.000773	0.00283	1	09/21/2018 22:56	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00541	0.00735	1	09/21/2018 22:56	<a href="#">WG1169827</a>
(S) Toluene-d8	88.7			75.0-131		09/21/2018 22:56	<a href="#">WG1169827</a>
(S) Toluene-d8	103			75.0-131		09/23/2018 20:25	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	101			65.0-129		09/21/2018 22:56	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	98.8			65.0-129		09/23/2018 20:25	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	90.8			67.0-138		09/21/2018 22:56	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/23/2018 20:25	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1026432-03 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1026432-03 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	94.2		1	09/20/2018 11:19	<a href="#">WG1168410</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.0413	J+	0.0145	0.0265	1	09/23/2018 17:14	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00202	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Benzene	U		0.000425	0.00106	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromobenzene	U		0.00111	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000837	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00120	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromoform	U		0.00635	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Bromomethane	U		0.00393	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00408	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00269	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00165	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00431	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00115	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000608	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000478	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Chloroethane	U		0.00115	0.00531	1	09/23/2018 17:14	<a href="#">WG1170348</a>
Chloroform	U		0.000441	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Chloromethane	U		0.00148	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.000977	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00120	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00542	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000557	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Dibromomethane	U		0.00106	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00154	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00181	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00209	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000869	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000611	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000504	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1-Dichloroethene	U		0.000531	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	0.0320		0.000733	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00152	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.00135	0.00531	1	09/23/2018 17:14	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000743	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00186	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000720	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00162	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00149	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000842	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000372	0.00106	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000563	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0135	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
2-Hexanone	U		0.0106	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
n-Hexane	U		0.00113	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Iodomethane	U	J4	0.00642	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000916	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00247	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0133	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Methylene Chloride	0.00906	J J	0.00705	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0106	0.0265	1	09/21/2018 23:15	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/13/18 14:40

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000313	0.00106	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Naphthalene	U		0.00331	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00125	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Styrene	U		0.00290	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000531	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000414	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000717	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Tetrachloroethene	1.13		0.000743	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Toluene	0.00173	J J	0.00133	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.000664	0.00265	1	09/23/2018 17:14	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00512	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000292	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000938	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Trichloroethene	0.0340		0.000425	0.00106	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000531	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00542	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	U		0.00123	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	U		0.00122	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00115	0.00531	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Vinyl acetate	U	UJ JO	0.00374	0.0133	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Vinyl chloride	U		0.000725	0.00265	1	09/21/2018 23:15	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00508	0.00690	1	09/21/2018 23:15	<a href="#">WG1169827</a>
(S) Toluene-d8	90.5			75.0-131		09/21/2018 23:15	<a href="#">WG1169827</a>
(S) Toluene-d8	107			75.0-131		09/23/2018 17:14	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	98.4			65.0-129		09/21/2018 23:15	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	101			65.0-129		09/23/2018 17:14	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	99.2			67.0-138		09/21/2018 23:15	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		09/23/2018 17:14	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.2		1	09/20/2018 09:51	<a href="#">WG1168411</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.152	U J	0.131	0.238	8	09/23/2018 20:49	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00226	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Benzene	U		0.000475	0.00119	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromobenzene	U		0.00125	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000936	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00134	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromoform	U		0.00710	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Bromomethane	U		0.00440	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00456	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00301	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00184	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Carbon disulfide	0.00631	J J	0.00482	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00128	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000681	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000535	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Chloroethane	U		0.0103	0.0475	8	09/23/2018 20:49	<a href="#">WG1170348</a>
Chloroform	U		0.000493	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Chloromethane	U		0.00165	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00109	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00134	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00606	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000624	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Dibromomethane	U		0.00119	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00172	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00202	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00234	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000972	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000683	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000564	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1-Dichloroethene	0.0204		0.000594	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	3.42		0.00656	0.0238	8	09/23/2018 20:49	<a href="#">WG1170348</a>
trans-1,2-Dichloroethene	0.0213		0.00170	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.0121	0.0475	8	09/23/2018 20:49	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000832	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00208	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000805	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00182	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00166	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000942	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000416	0.00119	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Ethylbenzene	0.000966	J J	0.000630	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0151	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
2-Hexanone	U		0.0119	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
n-Hexane	U		0.00126	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Iodomethane	U		0.00719	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.00103	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00277	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
2-Butanone (MEK)	0.0167	J J	0.0148	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00789	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0297	1	09/21/2018 23:34	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/13/18 18:00

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Naphthalene	U		0.00371	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00140	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Styrene	U		0.00324	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000594	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000463	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000802	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Tetrachloroethene	0.343		0.000832	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Toluene	0.00745		0.00148	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.00594	0.0238	8	09/23/2018 20:49	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00573	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000327	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.00105	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Trichloroethene	0.0155		0.000475	0.00119	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000594	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00606	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00156	J J	0.00138	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00145	J J	0.00137	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00128	0.00594	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Vinyl acetate	U	UJ JO	0.00418	0.0148	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Vinyl chloride	0.341		0.000811	0.00297	1	09/21/2018 23:34	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00568	0.00772	1	09/21/2018 23:34	<a href="#">WG1169827</a>
(S) Toluene-d8	88.1			75.0-131		09/21/2018 23:34	<a href="#">WG1169827</a>
(S) Toluene-d8	104			75.0-131		09/23/2018 20:49	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	97.2			65.0-129		09/21/2018 23:34	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	99.2			65.0-129		09/23/2018 20:49	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	102			67.0-138		09/21/2018 23:34	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/23/2018 20:49	<a href="#">WG1170348</a>

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

Sample Narrative:

L1026432-05 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
L1026432-05 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.1		1	09/20/2018 09:51	<a href="#">WG1168411</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.49	2.71	100	09/23/2018 21:13	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00206	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Benzene	U		0.000434	0.00109	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromobenzene	U		0.00114	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000855	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00123	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromoform	U		0.00649	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Bromomethane	U		0.00402	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00417	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00275	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00168	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00441	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00117	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000622	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000488	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Chloroethane	U		0.117	0.543	100	09/23/2018 21:13	<a href="#">WG1170348</a>
Chloroform	U		0.000450	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Chloromethane	U		0.00151	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.000999	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00123	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00554	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000570	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Dibromomethane	U		0.00109	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00157	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00185	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00214	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000888	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000624	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000516	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1-Dichloroethene	0.00651		0.000543	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	2.16		0.0749	0.271	100	09/23/2018 21:13	<a href="#">WG1170348</a>
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.138	0.543	100	09/23/2018 21:13	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000760	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00190	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000736	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00152	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000861	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000380	0.00109	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000575	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0138	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
2-Hexanone	U		0.0109	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
n-Hexane	U		0.00115	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Iodomethane	U	J4	0.00657	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000937	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00253	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0136	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00721	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0271	1	09/21/2018 23:52	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/14/18 12:35

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Naphthalene	U		0.00339	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00128	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Styrene	U		0.00296	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000543	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000423	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Tetrachloroethene	55.8		0.0760	0.271	100	09/23/2018 21:13	<a href="#">WG1170348</a>
Toluene	0.00188	J U	0.00136	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.0678	0.271	100	09/23/2018 21:13	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00523	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000298	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000958	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Trichloroethene	0.491		0.000434	0.00109	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000543	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00460	J U	0.00126	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00197	J U	0.00125	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	0.00184	J U	0.00117	0.00543	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Vinyl acetate	U	UJ UO	0.00382	0.0136	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Vinyl chloride	0.132		0.000741	0.00271	1	09/21/2018 23:52	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00519	0.00706	1	09/21/2018 23:52	<a href="#">WG1169827</a>
(S) Toluene-d8	114			75.0-131		09/21/2018 23:52	<a href="#">WG1169827</a>
(S) Toluene-d8	103			75.0-131		09/23/2018 21:13	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	99.5			65.0-129		09/21/2018 23:52	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	99.8			65.0-129		09/23/2018 21:13	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	94.8			67.0-138		09/21/2018 23:52	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/23/2018 21:13	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1026432-06 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1026432-06 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	09/20/2018 09:51	<a href="#">WG1168411</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.49	2.72	100	09/23/2018 21:37	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00206	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Benzene	U		0.000435	0.00109	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromobenzene	U		0.00114	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000856	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00123	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromoform	U		0.00650	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Bromomethane	U		0.00402	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00417	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00275	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00168	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00441	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00117	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000623	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000489	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Chloroethane	U		0.117	0.543	100	09/23/2018 21:37	<a href="#">WG1170348</a>
Chloroform	U		0.000451	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Chloromethane	U		0.00151	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00100	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00123	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00554	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000570	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Dibromomethane	U		0.00109	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00158	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00185	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00214	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000889	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000625	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000516	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1-Dichloroethene	0.00321		0.000543	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	1.88		0.000750	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00155	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.138	0.543	100	09/23/2018 21:37	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000761	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00190	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000737	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00166	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00152	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000862	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000380	0.00109	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000576	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0138	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
2-Hexanone	U		0.0109	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
n-Hexane	U		0.00115	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Iodomethane	U	J4	0.00657	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000938	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00253	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0136	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Methylene Chloride	U		0.00721	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/22/2018 00:11	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18





Collected date/time: 09/14/18 12:55

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000320	0.00109	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Naphthalene	U		0.00339	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00128	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Styrene	U		0.00297	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000543	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000733	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Tetrachloroethene	50.8		0.0761	0.272	100	09/23/2018 21:37	<a href="#">WG1170348</a>
Toluene	0.00326	J J	0.00136	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.0679	0.272	100	09/23/2018 21:37	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000959	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Trichloroethene	0.401		0.000435	0.00109	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000543	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00425	J J	0.00126	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00215	J J	0.00125	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00117	0.00543	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Vinyl acetate	U	UJ JO	0.00382	0.0136	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Vinyl chloride	0.105		0.000742	0.00272	1	09/22/2018 00:11	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00519	0.00706	1	09/22/2018 00:11	<a href="#">WG1169827</a>
(S) Toluene-d8	103			75.0-131		09/22/2018 00:11	<a href="#">WG1169827</a>
(S) Toluene-d8	102			75.0-131		09/23/2018 21:37	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	96.5			65.0-129		09/22/2018 00:11	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	100			65.0-129		09/23/2018 21:37	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	98.8			67.0-138		09/22/2018 00:11	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/23/2018 21:37	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1026432-07 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1026432-07 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.4		1	09/20/2018 09:51	<a href="#">WG1168411</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		3.00	5.47	200	09/23/2018 22:01	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00208	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Benzene	U		0.000437	0.00109	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromobenzene	U		0.00115	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000862	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00124	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromoform	U		0.00654	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Bromomethane	U		0.00405	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00420	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00277	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00170	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00444	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00118	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000627	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000492	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Chloroethane	U		0.236	1.09	200	09/23/2018 22:01	<a href="#">WG1170348</a>
Chloroform	U		0.000454	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Chloromethane	U		0.00152	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00101	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00124	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00558	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000574	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Dibromomethane	U		0.00109	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00159	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00186	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00215	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000895	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000629	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000519	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1-Dichloroethene	0.0102		0.000547	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	1.04		0.000755	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	0.0126		0.00156	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.278	1.09	200	09/23/2018 22:01	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000766	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00191	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00167	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00153	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000867	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000383	0.00109	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000580	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
2-Hexanone	U		0.0109	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
n-Hexane	U		0.00116	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Iodomethane	U	J4	0.00662	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000944	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00255	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0137	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Methylene Chloride	0.00902	J J	0.00726	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	09/22/2018 00:30	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/14/18 13:40

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000323	0.00109	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Naphthalene	U		0.00341	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00129	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Styrene	U		0.00299	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000547	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000427	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Tetrachloroethene	54.4		0.153	0.547	200	09/23/2018 22:01	<a href="#">WG1170348</a>
Toluene	0.00427	J U	0.00137	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.137	0.547	200	09/23/2018 22:01	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000301	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000966	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Trichloroethene	1.51		0.000437	0.00109	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000547	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00558	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	0.00512	J U	0.00127	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	0.00233	J U	0.00126	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	0.00197	J U	0.00118	0.00547	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Vinyl acetate	U	UJ UO	0.00385	0.0137	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Vinyl chloride	0.0585		0.000747	0.00273	1	09/22/2018 00:30	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00523	0.00711	1	09/22/2018 00:30	<a href="#">WG1169827</a>
(S) Toluene-d8	112			75.0-131		09/22/2018 00:30	<a href="#">WG1169827</a>
(S) Toluene-d8	102			75.0-131		09/23/2018 22:01	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	96.2			65.0-129		09/22/2018 00:30	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	99.9			65.0-129		09/23/2018 22:01	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	98.1			67.0-138		09/22/2018 00:30	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	100			67.0-138		09/23/2018 22:01	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1026432-08 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1026432-08 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	09/20/2018 09:51	<a href="#">WG1168411</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.309	0.563	20	09/23/2018 22:24	<a href="#">WG1170348</a>
Acrylonitrile	U		0.00214	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Benzene	U		0.000451	0.00113	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromobenzene	U		0.00118	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromodichloromethane	U		0.000888	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromochloromethane	U		0.00127	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromoform	U		0.00674	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Bromomethane	U		0.00417	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
n-Butylbenzene	U		0.00433	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
sec-Butylbenzene	U		0.00285	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
tert-Butylbenzene	U		0.00175	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Carbon disulfide	U		0.00457	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Carbon tetrachloride	U		0.00122	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Chlorobenzene	U		0.000645	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Chlorodibromomethane	U		0.000507	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Chloroethane	U		0.0243	0.113	20	09/23/2018 22:24	<a href="#">WG1170348</a>
Chloroform	U		0.000467	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Chloromethane	U		0.00157	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
2-Chlorotoluene	U		0.00104	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
4-Chlorotoluene	U		0.00127	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.00574	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dibromoethane	U		0.000591	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Dibromomethane	U		0.00113	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dichlorobenzene	U		0.00163	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,3-Dichlorobenzene	U		0.00191	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,4-Dichlorobenzene	U		0.00222	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Dichlorodifluoromethane	U		0.000921	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1-Dichloroethane	U		0.000648	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dichloroethane	U		0.000535	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1-Dichloroethene	U		0.000563	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
cis-1,2-Dichloroethene	0.566		0.000777	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
trans-1,2-Dichloroethene	U		0.00161	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2-Dichloropropane	U		0.0286	0.113	20	09/23/2018 22:24	<a href="#">WG1170348</a>
1,1-Dichloropropene	U		0.000788	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,3-Dichloropropane	U		0.00197	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
cis-1,3-Dichloropropene	U		0.000764	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
trans-1,3-Dichloropropene	U		0.00172	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.00158	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
2,2-Dichloropropane	U		0.000893	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Di-isopropyl ether	U		0.000394	0.00113	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Ethylbenzene	U		0.000597	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Hexachloro-1,3-butadiene	U		0.0143	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
2-Hexanone	U		0.0113	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
n-Hexane	U		0.00119	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Iodomethane	U	J4	0.00681	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Isopropylbenzene	U		0.000972	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
p-Isopropyltoluene	U		0.00262	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
2-Butanone (MEK)	U		0.0141	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Methylene Chloride	0.0109	J J	0.00748	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0282	1	09/22/2018 00:49	<a href="#">WG1169827</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Collected date/time: 09/14/18 14:20

L1026432

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Naphthalene	U		0.00351	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
n-Propylbenzene	U		0.00133	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Styrene	U		0.00307	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,1,2-Tetrachloroethane	U		0.000563	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,2,2-Tetrachloroethane	U		0.000439	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Tetrachloroethene	9.63		0.0158	0.0563	20	09/23/2018 22:24	<a href="#">WG1170348</a>
Toluene	0.00436	J J	0.00141	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2,3-Trichlorobenzene	U		0.0141	0.0563	20	09/23/2018 22:24	<a href="#">WG1170348</a>
1,2,4-Trichlorobenzene	U		0.00543	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,1-Trichloroethane	U		0.000310	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,1,2-Trichloroethane	U		0.000995	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Trichloroethene	0.347		0.000451	0.00113	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Trichlorofluoromethane	U		0.000563	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2,3-Trichloropropane	U		0.00574	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2,4-Trimethylbenzene	U		0.00131	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,2,3-Trimethylbenzene	U		0.00130	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Vinyl acetate	U	UJ JO	0.00396	0.0141	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Vinyl chloride	0.0123		0.000769	0.00282	1	09/22/2018 00:49	<a href="#">WG1169827</a>
Xylenes, Total	U		0.00538	0.00732	1	09/22/2018 00:49	<a href="#">WG1169827</a>
(S) Toluene-d8	102			75.0-131		09/22/2018 00:49	<a href="#">WG1169827</a>
(S) Toluene-d8	101			75.0-131		09/23/2018 22:24	<a href="#">WG1170348</a>
(S) Dibromofluoromethane	97.5			65.0-129		09/22/2018 00:49	<a href="#">WG1169827</a>
(S) Dibromofluoromethane	102			65.0-129		09/23/2018 22:24	<a href="#">WG1170348</a>
(S) 4-Bromofluorobenzene	98.4			67.0-138		09/22/2018 00:49	<a href="#">WG1169827</a>
(S) 4-Bromofluorobenzene	101			67.0-138		09/23/2018 22:24	<a href="#">WG1170348</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1026432-09 WG1170348, WG1169827: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1026432-09 WG1170348, WG1169827: Not all compounds reportable at lower dilution.

JC 10/19/18



Collected date/time: 09/14/18 00:00

L1026432

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	5.26	J	1.05	25.0	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Acrylonitrile	U		0.873	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Benzene	U		0.0896	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromobenzene	U		0.133	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromodichloromethane	U		0.0800	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromochloromethane	U		0.145	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromoform	U		0.186	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Bromomethane	U		0.157	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
n-Butylbenzene	U		0.143	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
sec-Butylbenzene	U		0.134	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
tert-Butylbenzene	U		0.183	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Carbon disulfide	U		0.101	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Carbon tetrachloride	U		0.159	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chlorobenzene	U		0.140	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chlorodibromomethane	U		0.128	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chloroethane	U		0.141	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chloroform	U		0.0860	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Chloromethane	U		0.153	1.25	1	09/18/2018 13:29	<a href="#">WG1167535</a>
2-Chlorotoluene	U		0.111	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
4-Chlorotoluene	U		0.0972	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dibromoethane	U		0.193	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Dibromomethane	U		0.117	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Dichlorodifluoromethane	U		0.127	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1-Dichloroethane	U		0.114	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dichloroethane	U		0.108	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1-Dichloroethene	U		0.188	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2-Dichloropropane	U		0.190	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1-Dichloropropene	U		0.128	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,3-Dichloropropane	U		0.147	1.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
2,2-Dichloropropane	U		0.0929	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Di-isopropyl ether	U		0.0924	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Ethylbenzene	U		0.158	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
2-Hexanone	U		0.757	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
n-Hexane	U		0.305	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Iodomethane	U		0.377	10.0	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Isopropylbenzene	U		0.126	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
p-Isopropyltoluene	U		0.138	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
2-Butanone (MEK)	U		1.28	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Methylene Chloride	U		1.07	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Methyl tert-butyl ether	U		0.102	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Naphthalene	U		0.174	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
n-Propylbenzene	U		0.162	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Styrene	U		0.117	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 10/19/18



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Tetrachloroethene	U		0.199	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Toluene	U		0.412	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Trichloroethene	U		0.153	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Trichlorofluoromethane	U		0.130	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Vinyl acetate	U		0.645	5.00	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Vinyl chloride	U		0.118	0.500	1	09/18/2018 13:29	<a href="#">WG1167535</a>
Xylenes, Total	U		0.316	1.50	1	09/18/2018 13:29	<a href="#">WG1167535</a>
(S) Toluene-d8	103			80.0-120		09/18/2018 13:29	<a href="#">WG1167535</a>
(S) Dibromofluoromethane	101			75.0-120		09/18/2018 13:29	<a href="#">WG1167535</a>
(S) 4-Bromofluorobenzene	86.4			77.0-126		09/18/2018 13:29	<a href="#">WG1167535</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	90.6		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.21	2.21	80	10/01/2018 17:18	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00210	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Benzene	U		0.000441	0.00110	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromobenzene	U		0.00116	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000869	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00125	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromoform	U		0.00660	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Bromomethane	U		0.00408	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00424	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00279	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00171	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00448	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00119	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000632	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000496	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chloroethane	U		0.00119	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chloroform	U		0.000458	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Chloromethane	U		0.00153	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00102	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00125	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00563	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000579	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Dibromomethane	U		0.00110	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00160	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00188	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00217	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000903	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000634	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000524	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,1-Dichloroethene	0.0362		0.000552	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.157		0.000761	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	0.00404	J J	0.00158	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.113	0.441	80	10/01/2018 17:18	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000772	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00193	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000748	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00169	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00154	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000875	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000386	0.00110	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Ethylbenzene	0.000719	J J	0.000585	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		1.13	2.21	80	10/01/2018 17:18	<a href="#">WG1173651</a>
2-Hexanone	U		0.0110	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
n-Hexane	0.00405	J JJ0	0.00117	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Iodomethane	U		0.00668	0.0138	1	09/29/2018 15:46	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000952	0.00276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00257	0.00552	1	09/29/2018 15:46	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		1.10	2.21	80	10/01/2018 17:18	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00733	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0110	0.0276	1	09/29/2018 15:46	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018



Collected date/time: 09/18/18 16:00

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000325	0.00110	1	09/29/2018 15:46	WG1173458
Naphthalene	U		0.00344	0.0138	1	09/29/2018 15:46	WG1173458
n-Propylbenzene	U		0.00130	0.00552	1	09/29/2018 15:46	WG1173458
Styrene	U		0.00301	0.0138	1	09/29/2018 15:46	WG1173458
1,1,1,2-Tetrachloroethane	U		0.000552	0.00276	1	09/29/2018 15:46	WG1173458
1,1,2,2-Tetrachloroethane	U		0.000430	0.00276	1	09/29/2018 15:46	WG1173458
1,1,2-Trichlorotrifluoroethane	U		0.000745	0.00276	1	09/29/2018 15:46	WG1173458
Tetrachloroethene	31.4		0.0618	0.221	80	10/01/2018 17:18	WG1173651
Toluene	0.00447	J U	0.00138	0.00552	1	09/29/2018 15:46	WG1173458
1,2,3-Trichlorobenzene	U		0.000690	0.00276	1	09/29/2018 15:46	WG1173458
1,2,4-Trichlorobenzene	U		0.00532	0.0138	1	09/29/2018 15:46	WG1173458
1,1,1-Trichloroethane	U		0.000303	0.00276	1	09/29/2018 15:46	WG1173458
1,1,2-Trichloroethane	U		0.0779	0.221	80	10/01/2018 17:18	WG1173651
Trichloroethene	1.21		0.0353	0.0883	80	10/01/2018 22:09	WG1174156
Trichlorofluoromethane	U		0.000552	0.00276	1	09/29/2018 15:46	WG1173458
1,2,3-Trichloropropane	U		0.00563	0.0138	1	09/29/2018 15:46	WG1173458
1,2,4-Trimethylbenzene	0.00240	J U	0.00128	0.00552	1	09/29/2018 15:46	WG1173458
1,2,3-Trimethylbenzene	0.00129	J U	0.00127	0.00552	1	09/29/2018 15:46	WG1173458
1,3,5-Trimethylbenzene	U		0.00119	0.00552	1	09/29/2018 15:46	WG1173458
Vinyl acetate	U	UJ JO J4	0.00388	0.0138	1	09/29/2018 15:46	WG1173458
Vinyl chloride	0.0191		0.000754	0.00276	1	09/29/2018 15:46	WG1173458
Xylenes, Total	0.00585	J U	0.00527	0.00717	1	09/29/2018 15:46	WG1173458
(S) Toluene-d8	117			75.0-131		09/29/2018 15:46	WG1173458
(S) Toluene-d8	106			75.0-131		10/01/2018 17:18	WG1173651
(S) Toluene-d8	106			75.0-131		10/01/2018 22:09	WG1174156
(S) Dibromofluoromethane	106			65.0-129		09/29/2018 15:46	WG1173458
(S) Dibromofluoromethane	109			65.0-129		10/01/2018 17:18	WG1173651
(S) Dibromofluoromethane	99.5			65.0-129		10/01/2018 22:09	WG1174156
(S) 4-Bromofluorobenzene	107			67.0-138		09/29/2018 15:46	WG1173458
(S) 4-Bromofluorobenzene	108			67.0-138		10/01/2018 17:18	WG1173651
(S) 4-Bromofluorobenzene	110			67.0-138		10/01/2018 22:09	WG1174156

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	86.9		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0158	0.0288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00219	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Benzene	U		0.000460	0.00115	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromobenzene	U		0.00121	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000907	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00130	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromoform	U		0.00688	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Bromomethane	U		0.00426	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00442	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00291	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00178	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00467	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00124	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000660	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000518	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chloroethane	U		0.00124	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chloroform	U		0.000478	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Chloromethane	U		0.00160	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00106	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00130	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00587	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000604	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Dibromomethane	U		0.00115	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00167	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00196	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00227	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000942	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000662	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000547	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1-Dichloroethene	0.00620		0.000576	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.0220		0.000794	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	0.00499	J	0.00165	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.00146	0.00576	1	10/01/2018 16:38	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000806	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00201	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000780	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00176	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00161	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000913	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000403	0.00115	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000610	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.0146	0.0288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
2-Hexanone	U		0.0115	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
n-Hexane	U	UJ	0.00122	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Iodomethane	U		0.00696	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000993	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00268	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
2-Butanone (MEK)	0.0211	J	0.0144	0.0288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00764	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0115	0.0288	1	09/29/2018 16:06	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/18/18 16:40

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000340	0.00115	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Naphthalene	U		0.00359	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00136	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Styrene	U		0.00314	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000576	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000449	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000777	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Tetrachloroethene	0.205		0.000806	0.00288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
Toluene	0.00178	J J	0.00144	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000719	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00555	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000317	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00102	0.00288	1	10/01/2018 16:38	<a href="#">WG1173651</a>
Trichloroethene	0.202		0.000460	0.00115	1	10/01/2018 21:29	<a href="#">WG1174156</a>
Trichlorofluoromethane	U		0.000576	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00587	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00134	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00132	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00124	0.00576	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Vinyl acetate	U	UJ JO J4	0.00405	0.0144	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Vinyl chloride	U		0.000786	0.00288	1	09/29/2018 16:06	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00550	0.00748	1	09/29/2018 16:06	<a href="#">WG1173458</a>
(S) Toluene-d8	111			75.0-131		09/29/2018 16:06	<a href="#">WG1173458</a>
(S) Toluene-d8	104			75.0-131		10/01/2018 16:38	<a href="#">WG1173651</a>
(S) Toluene-d8	104			75.0-131		10/01/2018 21:29	<a href="#">WG1174156</a>
(S) Dibromofluoromethane	108			65.0-129		09/29/2018 16:06	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	107			65.0-129		10/01/2018 16:38	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	99.8			65.0-129		10/01/2018 21:29	<a href="#">WG1174156</a>
(S) 4-Bromofluorobenzene	108			67.0-138		09/29/2018 16:06	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/01/2018 16:38	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	104			67.0-138		10/01/2018 21:29	<a href="#">WG1174156</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0165	0.0301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00229	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Benzene	U		0.000481	0.00120	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromobenzene	U		0.00126	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000948	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00136	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromoform	U		0.00720	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Bromomethane	U		0.00445	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00462	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00304	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00187	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00489	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00130	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000690	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000542	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chloroethane	U		0.00130	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chloroform	U		0.000499	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Chloromethane	U		0.00167	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00111	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00136	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00614	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000632	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Dibromomethane	U		0.00120	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00175	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00205	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00237	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000984	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000692	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dichloroethane	U		0.000572	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1-Dichloroethene	U		0.000602	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.00113	J	0.000830	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	U		0.00172	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.00153	0.00602	1	10/01/2018 16:58	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000842	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00211	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000816	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00184	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00168	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000954	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000421	0.00120	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000638	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.0153	0.0301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
2-Hexanone	U		0.0120	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
n-Hexane	U	UJ	0.00128	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Iodomethane	U		0.00728	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.00104	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00280	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
2-Butanone (MEK)	0.0213	J	0.0150	0.0301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00799	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/29/2018 16:27	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018



Collected date/time: 09/18/18 17:20

L1029197

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Naphthalene	U		0.00376	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00142	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Styrene	U		0.00329	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000602	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000469	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000812	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Tetrachloroethene	0.00194	J L	0.000842	0.00301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
Toluene	0.00171	J L	0.00150	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000752	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00580	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00106	0.00301	1	10/01/2018 16:58	<a href="#">WG1173651</a>
Trichloroethene	0.00168		0.000481	0.00120	1	10/01/2018 21:49	<a href="#">WG1174156</a>
Trichlorofluoromethane	U		0.000602	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00614	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00140	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00138	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00130	0.00602	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Vinyl acetate	U	UJ JO J4	0.00424	0.0150	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Vinyl chloride	U		0.000822	0.00301	1	09/29/2018 16:27	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00575	0.00782	1	09/29/2018 16:27	<a href="#">WG1173458</a>
(S) Toluene-d8	111			75.0-131		09/29/2018 16:27	<a href="#">WG1173458</a>
(S) Toluene-d8	108			75.0-131		10/01/2018 16:58	<a href="#">WG1173651</a>
(S) Toluene-d8	98.8			75.0-131		10/01/2018 21:49	<a href="#">WG1174156</a>
(S) Dibromofluoromethane	106			65.0-129		09/29/2018 16:27	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	105			65.0-129		10/01/2018 16:58	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	104			65.0-129		10/01/2018 21:49	<a href="#">WG1174156</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/29/2018 16:27	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	112			67.0-138		10/01/2018 16:58	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/01/2018 21:49	<a href="#">WG1174156</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	92.0		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0596	0.109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00207	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Benzene	U		0.000435	0.00109	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromobenzene	U		0.00114	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000857	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00123	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromoform	U		0.00650	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Bromomethane	U		0.00402	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00417	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00275	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00168	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00441	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00117	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000623	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000489	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chloroethane	U		0.00117	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chloroform	U		0.000451	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Chloromethane	U		0.00151	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00100	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00123	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00554	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000571	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Dibromomethane	U		0.00109	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00158	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00185	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00214	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000889	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000625	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000516	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1-Dichloroethene	U		0.000544	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.0103		0.000750	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	U		0.00155	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.00552	0.0217	4	10/01/2018 17:38	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000761	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00190	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000737	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000862	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000380	0.00109	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000576	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.0552	0.109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
2-Hexanone	U		0.0109	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
n-Hexane	0.00228	J JJO	0.00115	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Iodomethane	U		0.00658	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000938	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00253	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		0.0544	0.109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00722	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/29/2018 16:47	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Naphthalene	U		0.00339	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00128	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Styrene	U		0.00297	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000734	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Tetrachloroethene	0.983		0.00304	0.0109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
Toluene	0.00168	J J	0.00136	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000679	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00384	0.0109	4	10/01/2018 17:38	<a href="#">WG1173651</a>
Trichloroethene	0.00290	J J	0.00174	0.00435	4	10/01/2018 22:29	<a href="#">WG1174156</a>
Trichlorofluoromethane	U		0.000544	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00554	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00125	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00117	0.00544	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Vinyl acetate	U	UJ JO J4	0.00383	0.0136	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Vinyl chloride	U		0.000742	0.00272	1	09/29/2018 16:47	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00520	0.00707	1	09/29/2018 16:47	<a href="#">WG1173458</a>
(S) Toluene-d8	111			75.0-131		09/29/2018 16:47	<a href="#">WG1173458</a>
(S) Toluene-d8	92.9			75.0-131		10/01/2018 17:38	<a href="#">WG1173651</a>
(S) Toluene-d8	92.7			75.0-131		10/01/2018 22:29	<a href="#">WG1174156</a>
(S) Dibromofluoromethane	109			65.0-129		09/29/2018 16:47	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	111			65.0-129		10/01/2018 17:38	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	103			65.0-129		10/01/2018 22:29	<a href="#">WG1174156</a>
(S) 4-Bromofluorobenzene	105			67.0-138		09/29/2018 16:47	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/01/2018 17:38	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	115			67.0-138		10/01/2018 22:29	<a href="#">WG1174156</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.9		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.149	0.272	10	10/01/2018 17:57	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00207	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Benzene	0.000505	J J	0.000435	0.00109	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromobenzene	U		0.00114	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000857	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00123	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromoform	U		0.00651	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Bromomethane	U		0.00402	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00418	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00275	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00169	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00442	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00117	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000623	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000490	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chloroethane	U		0.00117	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chloroform	U		0.000451	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Chloromethane	U		0.00151	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00100	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00123	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00555	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000571	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Dibromomethane	U		0.00109	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00158	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00185	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00214	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000890	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000626	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dichloroethane	U		0.000517	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,1-Dichloroethene	0.000563	J J	0.000544	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.171		0.000751	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	0.00381	J J	0.00156	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.0138	0.0544	10	10/01/2018 17:57	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000761	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00190	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000738	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00166	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00152	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000863	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000381	0.00109	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Ethylbenzene	0.000610	J J	0.000577	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.138	0.272	10	10/01/2018 17:57	<a href="#">WG1173651</a>
2-Hexanone	U		0.0109	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
n-Hexane	0.00339	J JJO	0.00115	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Iodomethane	U		0.00658	0.0136	1	09/29/2018 17:08	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000939	0.00272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00253	0.00544	1	09/29/2018 17:08	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		0.136	0.272	10	10/01/2018 17:57	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00722	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0272	1	09/29/2018 17:08	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000321	0.00109	1	09/29/2018 17:08	WG1173458
Naphthalene	U		0.00339	0.0136	1	09/29/2018 17:08	WG1173458
n-Propylbenzene	U		0.00128	0.00544	1	09/29/2018 17:08	WG1173458
Styrene	U		0.00297	0.0136	1	09/29/2018 17:08	WG1173458
1,1,1,2-Tetrachloroethane	U		0.000544	0.00272	1	09/29/2018 17:08	WG1173458
1,1,2,2-Tetrachloroethane	U		0.000424	0.00272	1	09/29/2018 17:08	WG1173458
1,1,2-Trichlorotrifluoroethane	U		0.000734	0.00272	1	09/29/2018 17:08	WG1173458
Tetrachloroethene	1.74		0.00761	0.0272	10	10/01/2018 17:57	WG1173651
Toluene	0.00303	J J	0.00136	0.00544	1	09/29/2018 17:08	WG1173458
1,2,3-Trichlorobenzene	U		0.000680	0.00272	1	09/29/2018 17:08	WG1173458
1,2,4-Trichlorobenzene	U		0.00524	0.0136	1	09/29/2018 17:08	WG1173458
1,1,1-Trichloroethane	U		0.000299	0.00272	1	09/29/2018 17:08	WG1173458
1,1,2-Trichloroethane	U		0.00961	0.0272	10	10/01/2018 17:57	WG1173651
Trichloroethene	0.152		0.000435	0.00109	1	09/29/2018 17:08	WG1173458
Trichlorofluoromethane	U		0.000544	0.00272	1	09/29/2018 17:08	WG1173458
1,2,3-Trichloropropane	U		0.00555	0.0136	1	09/29/2018 17:08	WG1173458
1,2,4-Trimethylbenzene	U		0.00126	0.00544	1	09/29/2018 17:08	WG1173458
1,2,3-Trimethylbenzene	U		0.00125	0.00544	1	09/29/2018 17:08	WG1173458
1,3,5-Trimethylbenzene	U		0.00117	0.00544	1	09/29/2018 17:08	WG1173458
Vinyl acetate	U	UJ JO J4	0.00383	0.0136	1	09/29/2018 17:08	WG1173458
Vinyl chloride	0.00790		0.000743	0.00272	1	09/29/2018 17:08	WG1173458
Xylenes, Total	U		0.00520	0.00707	1	09/29/2018 17:08	WG1173458
(S) Toluene-d8	112			75.0-131		09/29/2018 17:08	WG1173458
(S) Toluene-d8	97.0			75.0-131		10/01/2018 17:57	WG1173651
(S) Dibromofluoromethane	105			65.0-129		09/29/2018 17:08	WG1173458
(S) Dibromofluoromethane	110			65.0-129		10/01/2018 17:57	WG1173651
(S) 4-Bromofluorobenzene	106			67.0-138		09/29/2018 17:08	WG1173458
(S) 4-Bromofluorobenzene	109			67.0-138		10/01/2018 17:57	WG1173651

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018





Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.5		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.306	0.559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00212	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Benzene	0.000458	J J	0.000447	0.00112	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromobenzene	U		0.00117	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000881	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00126	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromoform	U		0.00668	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Bromomethane	U		0.00414	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00429	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00283	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00173	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00454	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00121	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000640	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000503	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chloroethane	U		0.00121	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chloroform	U		0.000464	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Chloromethane	U		0.00155	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00103	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00126	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00570	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000587	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Dibromomethane	U		0.00112	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00162	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00190	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00220	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000914	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000643	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000531	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1-Dichloroethene	U		0.000559	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.0596		0.000771	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	U		0.00160	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.0284	0.112	20	10/01/2018 12:57	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000782	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00196	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000758	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00171	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00156	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000886	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000391	0.00112	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000592	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.284	0.559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
2-Hexanone	U		0.0112	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
n-Hexane	U	UJ JO	0.00118	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Iodomethane	U		0.00676	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.000965	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00260	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		0.279	0.559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00742	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0112	0.0279	1	09/29/2018 17:28	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 09/17/18 11:25

L1029197

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000330	0.00112	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Naphthalene	U		0.00349	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00132	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Styrene	U		0.00305	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000559	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000436	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000754	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Tetrachloroethene	8.01		0.0156	0.0559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
Toluene	0.00194	J J	0.00140	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000699	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00539	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000307	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.0198	0.0559	20	10/01/2018 12:57	<a href="#">WG1173651</a>
Trichloroethene	0.0451		0.000447	0.00112	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Trichlorofluoromethane	U		0.000559	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00570	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	0.00173	J J	0.00130	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00129	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00121	0.00559	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Vinyl acetate	U	UJ JO J4	0.00393	0.0140	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Vinyl chloride	U		0.000763	0.00279	1	09/29/2018 17:28	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00534	0.00727	1	09/29/2018 17:28	<a href="#">WG1173458</a>
(S) Toluene-d8	111			75.0-131		09/29/2018 17:28	<a href="#">WG1173458</a>
(S) Toluene-d8	103			75.0-131		10/01/2018 12:57	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	107			65.0-129		09/29/2018 17:28	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	105			65.0-129		10/01/2018 12:57	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	107			67.0-138		09/29/2018 17:28	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	110			67.0-138		10/01/2018 12:57	<a href="#">WG1173651</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.1		1	09/27/2018 14:37	<a href="#">WG1172388</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0659	0.120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
Acrylonitrile	U		0.00229	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Benzene	U		0.000481	0.00120	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromobenzene	U		0.00126	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromodichloromethane	U		0.000948	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromochloromethane	U		0.00136	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromoform	U		0.00719	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Bromomethane	U		0.00445	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
n-Butylbenzene	U		0.00462	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
sec-Butylbenzene	U		0.00304	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
tert-Butylbenzene	U		0.00186	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Carbon disulfide	U		0.00488	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Carbon tetrachloride	U		0.00130	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chlorobenzene	U		0.000689	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chlorodibromomethane	U		0.000541	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chloroethane	U		0.00130	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chloroform	U		0.000499	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Chloromethane	U		0.00167	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
2-Chlorotoluene	U		0.00111	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
4-Chlorotoluene	U		0.00136	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dibromo-3-Chloropropane	U		0.00613	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dibromoethane	U		0.000631	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Dibromomethane	U		0.00120	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dichlorobenzene	U		0.00174	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,3-Dichlorobenzene	U		0.00204	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,4-Dichlorobenzene	U		0.00237	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Dichlorodifluoromethane	U		0.000984	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1-Dichloroethane	U		0.000692	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dichloroethane	U	J4	0.000571	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1-Dichloroethene	U		0.000601	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
cis-1,2-Dichloroethene	0.00818		0.000830	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
trans-1,2-Dichloroethene	U		0.00172	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2-Dichloropropane	U		0.00611	0.0241	4	10/01/2018 13:17	<a href="#">WG1173651</a>
1,1-Dichloropropene	U		0.000842	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,3-Dichloropropane	U		0.00210	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
cis-1,3-Dichloropropene	U		0.000815	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
trans-1,3-Dichloropropene	U		0.00184	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
trans-1,4-Dichloro-2-butene	U		0.00168	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
2,2-Dichloropropane	U		0.000954	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Di-isopropyl ether	U		0.000421	0.00120	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Ethylbenzene	U		0.000637	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Hexachloro-1,3-butadiene	U		0.0611	0.120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
2-Hexanone	U		0.0120	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
n-Hexane	0.00282	J JJO	0.00127	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Iodomethane	U		0.00728	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Isopropylbenzene	U		0.00104	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
p-Isopropyltoluene	U		0.00280	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
2-Butanone (MEK)	U		0.0601	0.120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
Methylene Chloride	U		0.00799	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
4-Methyl-2-pentanone (MIBK)	U		0.0120	0.0301	1	09/29/2018 17:49	<a href="#">WG1173458</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/19/2018



Collected date/time: 09/17/18 12:40

L1029197

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000355	0.00120	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Naphthalene	U		0.00375	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
n-Propylbenzene	U		0.00142	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Styrene	U		0.00328	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,1,2-Tetrachloroethane	U		0.000601	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,2,2-Tetrachloroethane	U		0.000469	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,2-Trichlorotrifluoroethane	U		0.000812	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Tetrachloroethene	0.942		0.00337	0.0120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
Toluene	U		0.00150	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,3-Trichlorobenzene	U		0.000752	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,4-Trichlorobenzene	U		0.00580	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,1-Trichloroethane	U		0.000331	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,1,2-Trichloroethane	U		0.00425	0.0120	4	10/01/2018 13:17	<a href="#">WG1173651</a>
Trichloroethene	0.00512		0.000481	0.00120	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Trichlorofluoromethane	U		0.000601	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,3-Trichloropropane	U		0.00613	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,4-Trimethylbenzene	U		0.00140	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,2,3-Trimethylbenzene	U		0.00138	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
1,3,5-Trimethylbenzene	U		0.00130	0.00601	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Vinyl acetate	U	UJ JO J4	0.00423	0.0150	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Vinyl chloride	0.00139	J J	0.000821	0.00301	1	09/29/2018 17:49	<a href="#">WG1173458</a>
Xylenes, Total	U		0.00575	0.00782	1	09/29/2018 17:49	<a href="#">WG1173458</a>
(S) Toluene-d8	107			75.0-131		09/29/2018 17:49	<a href="#">WG1173458</a>
(S) Toluene-d8	106			75.0-131		10/01/2018 13:17	<a href="#">WG1173651</a>
(S) Dibromofluoromethane	103			65.0-129		09/29/2018 17:49	<a href="#">WG1173458</a>
(S) Dibromofluoromethane	105			65.0-129		10/01/2018 13:17	<a href="#">WG1173651</a>
(S) 4-Bromofluorobenzene	108			67.0-138		09/29/2018 17:49	<a href="#">WG1173458</a>
(S) 4-Bromofluorobenzene	110			67.0-138		10/01/2018 13:17	<a href="#">WG1173651</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 10/19/2018



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	11.5	27.4		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	0.476	2.32		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	1.73	6.92		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	1.83	6.59	J	2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	14.6	27.5		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND	U	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.404	1.40		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND	UJ	2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	1.24	3.64	J	2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 10/26/18



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	17.8	96.7		2	<a href="#">WG1174010</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1174010</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1174010</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1174010</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1174010</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1174010</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1174010</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1174010</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		101				<a href="#">WG1174010</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 10/26/18



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	8.56	20.3		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	0.420	2.04		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	1.63	6.54		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND UJ	ND UJ		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	12.3	23.2		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND U	ND U	#	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	ND	ND		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	20.2 J	137 J		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND UJ	ND UJ		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	ND	ND		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 10/26/18



Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	17.1	93.2		2	<a href="#">WG1174010</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1174010</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1174010</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1174010</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1174010</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1174010</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1174010</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1174010</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		92.5				<a href="#">WG1174010</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 10/26/18





Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	30.8	73.2		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	0.594	1.23		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	0.749	2.70		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	11.5	21.7		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	0.622	3.05		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	0.774	4.35		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	0.448	2.22		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND	U	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	0.659	2.32		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	1.10	3.81		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	7.95	19.5		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	4.66	8.03		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	0.633	1.87		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	0.485	1.83		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1174010</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	1.84	9.01		2	<a href="#">WG1174010</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	0.488	2.39		2	<a href="#">WG1174010</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1174010</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1174010</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1174010</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1174010</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	1.29	5.58		2	<a href="#">WG1174010</a>
o-Xylene	95-47-6	106	0.400	1.73	0.638	2.76		2	<a href="#">WG1174010</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		107				<a href="#">WG1174010</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	7.83	18.6		2	WG1174010
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1174010
Benzene	71-43-2	78.10	0.400	1.28	ND	ND		2	WG1174010
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1174010
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1174010
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1174010
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1174010
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1174010
Carbon disulfide	75-15-0	76.10	0.400	1.24	ND	ND		2	WG1174010
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1174010
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1174010
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1174010
Chloroform	67-66-3	119	0.400	1.95	ND	ND		2	WG1174010
Chloromethane	74-87-3	50.50	0.400	0.826	ND	ND		2	WG1174010
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1174010
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1174010
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1174010
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1174010
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1174010
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1174010
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1174010
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1174010
1,1-Dichloroethane	75-34-3	98	0.400	1.60	ND	ND		2	WG1174010
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	ND	ND		2	WG1174010
cis-1,2-Dichloroethene	156-59-2	96.90	0.400	1.59	ND	ND		2	WG1174010
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1174010
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1174010
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1174010
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1174010
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1174010
Ethanol	64-17-5	46.10	1.26	2.38	13.8	26.1		2	WG1174010
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1174010
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1174010
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1174010
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1174010
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	ND	ND		2	WG1174010
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND	U	2	WG1174010
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1174010
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1174010
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1174010
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1174010
Methylene Chloride	75-09-2	84.90	0.400	1.39	ND	ND		2	WG1174010
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1174010
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1174010
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1174010
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1174010
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1174010
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1174010
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1174010
Propene	115-07-1	42.10	0.800	1.38	1.60	2.75		2	WG1174010
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1174010
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1174010
Tetrachloroethylene	127-18-4	166	0.400	2.72	ND	ND		2	WG1174010
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1174010
Toluene	108-88-3	92.10	0.400	1.51	0.570	2.15		2	WG1174010
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1174010

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

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Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	<a href="#">WG1174010</a>
Trichloroethylene	79-01-6	131	0.400	2.14	ND	ND		2	<a href="#">WG1174010</a>
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	0.508	2.49		2	<a href="#">WG1174010</a>
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	<a href="#">WG1174010</a>
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	<a href="#">WG1174010</a>
Vinyl chloride	75-01-4	62.50	0.400	1.02	ND	ND		2	<a href="#">WG1174010</a>
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	<a href="#">WG1174010</a>
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	<a href="#">WG1174010</a>
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	<a href="#">WG1174010</a>
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	<a href="#">WG1174010</a>
(S) 1,4-Bromofluorobenzene	460-00-4	175	60.0-140		115				<a href="#">WG1174010</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	91.5		1	10/24/2018 09:40	<a href="#">WG1184862</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.150	0.273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
Acrylonitrile	U		0.00208	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Benzene	U		0.000437	0.00109	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromobenzene	U		0.00115	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromodichloromethane	U		0.000861	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromochloromethane	U		0.00124	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromoform	U		0.00654	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Bromomethane	U		0.00404	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
n-Butylbenzene	U		0.00420	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
sec-Butylbenzene	U		0.00277	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
tert-Butylbenzene	U		0.00169	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Carbon disulfide	U		0.00444	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Carbon tetrachloride	U		0.00118	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chlorobenzene	U		0.000626	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chlorodibromomethane	U		0.000492	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chloroethane	U		0.00118	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chloroform	U		0.000454	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Chloromethane	U		0.00152	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
2-Chlorotoluene	U		0.00101	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
4-Chlorotoluene	U		0.00124	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dibromo-3-Chloropropane	U		0.00557	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dibromoethane	U		0.000574	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Dibromomethane	U		0.00109	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dichlorobenzene	U		0.00158	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,3-Dichlorobenzene	U		0.00186	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,4-Dichlorobenzene	U		0.00215	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Dichlorodifluoromethane	U		0.00894	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
1,1-Dichloroethane	U		0.000628	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dichloroethane	U		0.000519	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1-Dichloroethene	0.00253	J	0.000547	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
cis-1,2-Dichloroethene	1.48		0.00754	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
trans-1,2-Dichloroethene	0.0323		0.00156	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2-Dichloropropane	U		0.00139	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1-Dichloropropene	U		0.000765	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,3-Dichloropropane	U		0.00191	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
cis-1,3-Dichloropropene	U		0.000741	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
trans-1,3-Dichloropropene	U	U	0.00167	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
trans-1,4-Dichloro-2-butene	U		0.00153	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
2,2-Dichloropropane	U		0.000867	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Di-isopropyl ether	U		0.000383	0.00109	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Ethylbenzene	U		0.000579	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Hexachloro-1,3-butadiene	U		0.0139	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
2-Hexanone	U		0.0109	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
n-Hexane	U		0.00116	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Iodomethane	U		0.00661	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Isopropylbenzene	U		0.000943	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
p-Isopropyltoluene	U		0.00255	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
2-Butanone (MEK)	0.0413		0.0137	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
Methylene Chloride	U		0.00726	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
4-Methyl-2-pentanone (MIBK)	U		0.0109	0.0273	1	10/22/2018 17:32	<a href="#">WG1184455</a>

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- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch	
Methyl tert-butyl ether	U		0.000322	0.00109	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
Naphthalene	U		0.00341	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
n-Propylbenzene	U		0.00129	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
Styrene	U		0.00298	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
1,1,1,2-Tetrachloroethane	U	<b>U</b>	<u>J4</u>	0.000547	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,1,2,2-Tetrachloroethane	U		0.00426	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>	
1,1,2-Trichlorotrifluoroethane	U		0.000738	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
Tetrachloroethene	2.67	<b>J</b>	<u>JO</u>	0.00765	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>
Toluene	0.00206	<b>J</b>	<u>J</u>	0.00137	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>
1,2,3-Trichlorobenzene	U		0.00683	0.0273	10	10/24/2018 00:26	<a href="#">WG1185221</a>	
1,2,4-Trichlorobenzene	U		0.00527	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
1,1,1-Trichloroethane	U		0.000301	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
1,1,2-Trichloroethane	U		0.000965	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
Trichloroethene	0.279		0.000437	0.00109	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
Trichlorofluoromethane	U		0.000547	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
1,2,3-Trichloropropane	U		0.00557	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
1,2,4-Trimethylbenzene	U		0.00127	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
1,2,3-Trimethylbenzene	U		0.00126	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
1,3,5-Trimethylbenzene	U		0.00118	0.00547	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
Vinyl acetate	U		0.00385	0.0137	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
Vinyl chloride	0.0128		0.000747	0.00273	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
Xylenes, Total	U		0.00522	0.00710	1	10/22/2018 17:32	<a href="#">WG1184455</a>	
(S) Toluene-d8	105			75.0-131		10/22/2018 17:32	<a href="#">WG1184455</a>	
(S) Toluene-d8	97.2			75.0-131		10/24/2018 00:26	<a href="#">WG1185221</a>	
(S) Dibromofluoromethane	90.3			65.0-129		10/22/2018 17:32	<a href="#">WG1184455</a>	
(S) Dibromofluoromethane	118			65.0-129		10/24/2018 00:26	<a href="#">WG1185221</a>	
(S) 4-Bromofluorobenzene	92.0			67.0-138		10/22/2018 17:32	<a href="#">WG1184455</a>	
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 00:26	<a href="#">WG1185221</a>	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1036161-01 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1036161-01 WG1185221, WG1184455: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.8		1	10/24/2018 11:13	<a href="#">WG1185188</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.154	0.281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
Acrylonitrile	U		0.00214	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Benzene	U		0.000450	0.00113	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromobenzene	U		0.00118	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromodichloromethane	U		0.000887	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromochloromethane	U		0.00127	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromoform	U		0.00673	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Bromomethane	U		0.00417	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
n-Butylbenzene	U		0.00432	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
sec-Butylbenzene	U		0.00285	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
tert-Butylbenzene	U		0.00175	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Carbon disulfide	U		0.00457	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Carbon tetrachloride	U		0.00122	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chlorobenzene	U		0.000645	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chlorodibromomethane	U		0.000507	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chloroethane	U		0.00122	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chloroform	U		0.000467	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Chloromethane	U		0.00156	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
2-Chlorotoluene	U		0.00104	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
4-Chlorotoluene	U		0.00127	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dibromo-3-Chloropropane	U		0.00574	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dibromoethane	U		0.000591	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Dibromomethane	U		0.00113	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dichlorobenzene	U		0.00163	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,3-Dichlorobenzene	U		0.00191	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,4-Dichlorobenzene	U		0.00222	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Dichlorodifluoromethane	U		0.00921	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
1,1-Dichloroethane	U		0.000647	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dichloroethane	U		0.000535	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1-Dichloroethene	0.00373		0.000563	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
cis-1,2-Dichloroethene	1.77		0.00777	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
trans-1,2-Dichloroethene	0.0456		0.00161	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2-Dichloropropane	U		0.00143	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1-Dichloropropene	U		0.000788	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,3-Dichloropropane	U		0.00197	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
cis-1,3-Dichloropropene	U		0.000763	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
trans-1,3-Dichloropropene	U	U	0.00172	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
trans-1,4-Dichloro-2-butene	U	J4	0.00158	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
2,2-Dichloropropane	U		0.000893	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Di-isopropyl ether	U		0.000394	0.00113	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Ethylbenzene	U		0.000597	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Hexachloro-1,3-butadiene	U		0.0143	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
2-Hexanone	U		0.0113	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
n-Hexane	U		0.00119	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Iodomethane	U		0.00681	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Isopropylbenzene	U		0.000972	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
p-Isopropyltoluene	U		0.00262	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
2-Butanone (MEK)	0.0306		0.0141	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Methylene Chloride	U		0.00748	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
4-Methyl-2-pentanone (MIBK)	U		0.0113	0.0281	1	10/22/2018 17:50	<a href="#">WG1184455</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000332	0.00113	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Naphthalene	U		0.00351	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
n-Propylbenzene	U		0.00133	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Styrene	U		0.00307	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1,1,2-Tetrachloroethane	U	U J4	0.000563	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1,2,2-Tetrachloroethane	U		0.00439	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
1,1,2-Trichlorotrifluoroethane	U		0.000760	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Tetrachloroethene	2.31	J J0	0.00788	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
Toluene	0.00250	J J	0.00141	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2,3-Trichlorobenzene	U		0.00704	0.0281	10	10/24/2018 00:46	<a href="#">WG1185221</a>
1,2,4-Trichlorobenzene	U		0.00543	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1,1-Trichloroethane	U		0.000310	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,1,2-Trichloroethane	U		0.000994	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Trichloroethene	0.201		0.000450	0.00113	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Trichlorofluoromethane	U		0.000563	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2,3-Trichloropropane	U		0.00574	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2,4-Trimethylbenzene	0.00149	J J	0.00131	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,2,3-Trimethylbenzene	U		0.00129	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
1,3,5-Trimethylbenzene	U		0.00122	0.00563	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Vinyl acetate	U		0.00396	0.0141	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Vinyl chloride	0.0167		0.000769	0.00281	1	10/22/2018 17:50	<a href="#">WG1184455</a>
Xylenes, Total	U		0.00538	0.00732	1	10/22/2018 17:50	<a href="#">WG1184455</a>
(S) Toluene-d8	105			75.0-131		10/22/2018 17:50	<a href="#">WG1184455</a>
(S) Toluene-d8	95.7			75.0-131		10/24/2018 00:46	<a href="#">WG1185221</a>
(S) Dibromofluoromethane	90.1			65.0-129		10/22/2018 17:50	<a href="#">WG1184455</a>
(S) Dibromofluoromethane	120			65.0-129		10/24/2018 00:46	<a href="#">WG1185221</a>
(S) 4-Bromofluorobenzene	91.1			67.0-138		10/22/2018 17:50	<a href="#">WG1184455</a>
(S) 4-Bromofluorobenzene	123			67.0-138		10/24/2018 00:46	<a href="#">WG1185221</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1036161-02 WG1185221, WG1184455: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.  
 L1036161-02 WG1185221, WG1184455: Not all compounds reportable at lower dilution.

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.8		1	10/24/2018 14:00	<a href="#">WG1185671</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0639	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Acrylonitrile	U		0.00886	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Benzene	0.00321	J	0.00186	0.00466	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromobenzene	U		0.00489	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromodichloromethane	U		0.00367	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromochloromethane	U		0.00527	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromoform	U		0.0278	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Bromomethane	U		0.0172	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
n-Butylbenzene	U		0.0179	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
sec-Butylbenzene	U		0.0118	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
tert-Butylbenzene	U		0.00722	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Carbon disulfide	U		0.0189	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Carbon tetrachloride	U		0.00503	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chlorobenzene	U		0.00267	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chlorodibromomethane	U		0.00210	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chloroethane	U		0.00503	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chloroform	0.00193	J	0.00193	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Chloromethane	U		0.00648	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
2-Chlorotoluene	U		0.00429	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
4-Chlorotoluene	U		0.00527	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dibromo-3-Chloropropane	U		0.0238	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dibromoethane	U		0.00245	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Dibromomethane	U		0.00466	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dichlorobenzene	U		0.00676	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,3-Dichlorobenzene	U		0.00792	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,4-Dichlorobenzene	U		0.00918	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Dichlorodifluoromethane	U		0.00381	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1-Dichloroethane	U		0.00268	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dichloroethane	U		0.00221	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1-Dichloroethene	U		0.00233	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
cis-1,2-Dichloroethene	0.336		0.00322	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
trans-1,2-Dichloroethene	U		0.00666	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2-Dichloropropane	U		0.00592	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1-Dichloropropene	U		0.00326	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,3-Dichloropropane	U		0.00816	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
cis-1,3-Dichloropropene	U		0.00316	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
trans-1,3-Dichloropropene	U		0.00713	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
trans-1,4-Dichloro-2-butene	U		0.00653	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
2,2-Dichloropropane	U		0.00369	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Di-isopropyl ether	U		0.00163	0.00466	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Ethylbenzene	0.00256	J	0.00247	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Hexachloro-1,3-butadiene	U		0.0592	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
2-Hexanone	U		0.0466	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
n-Hexane	U		0.00494	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Iodomethane	U		0.0282	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Isopropylbenzene	U		0.00402	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
p-Isopropyltoluene	U		0.0109	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
2-Butanone (MEK)	U		0.0583	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Methylene Chloride	U		0.0310	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
4-Methyl-2-pentanone (MIBK)	U		0.0466	0.117	4	10/26/2018 05:55	<a href="#">WG1186559</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 11/15/18



Collected date/time: 10/18/18 12:11

L1036481

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00137	0.00466	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Naphthalene	U		0.0146	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
n-Propylbenzene	U		0.00550	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Styrene	U		0.0127	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,1,2-Tetrachloroethane	U		0.00233	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,2,2-Tetrachloroethane	U		0.00182	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,2-Trichlorotrifluoroethane	U		0.00315	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Tetrachloroethene	1.35		0.00326	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Toluene	0.00897	J	0.00583	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,3-Trichlorobenzene	U		0.00291	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,4-Trichlorobenzene	U		0.0225	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,1-Trichloroethane	U		0.00128	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,1,2-Trichloroethane	U		0.00411	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Trichloroethene	0.336		0.00186	0.00466	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Trichlorofluoromethane	U		0.00233	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,3-Trichloropropane	U		0.0238	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,4-Trimethylbenzene	U		0.00541	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,2,3-Trimethylbenzene	U		0.00536	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
1,3,5-Trimethylbenzene	U		0.00503	0.0233	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Vinyl acetate	U		0.0164	0.0583	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Vinyl chloride	U		0.00318	0.0117	4	10/26/2018 05:55	<a href="#">WG1186559</a>
Xylenes, Total	U		0.0223	0.0303	4	10/26/2018 05:55	<a href="#">WG1186559</a>
(S) Toluene-d8	104			75.0-131		10/26/2018 05:55	<a href="#">WG1186559</a>
(S) Dibromofluoromethane	95.5			65.0-129		10/26/2018 05:55	<a href="#">WG1186559</a>
(S) 4-Bromofluorobenzene	108			67.0-138		10/26/2018 05:55	<a href="#">WG1186559</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1036481-01 WG1186559: Diluted due to high levels of target analytes.

JC 11/15/18



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.3		1	10/24/2018 14:15	<a href="#">WG1185771</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0162	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Acrylonitrile	U		0.00225	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Benzene	U		0.000474	0.00119	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromobenzene	U		0.00124	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromodichloromethane	U		0.000934	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromochloromethane	U		0.00134	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromoform	U		0.00709	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Bromomethane	U		0.00439	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
n-Butylbenzene	U		0.00455	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
sec-Butylbenzene	U		0.00300	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
tert-Butylbenzene	U		0.00184	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Carbon disulfide	U		0.00481	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Carbon tetrachloride	U		0.00128	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chlorobenzene	U		0.000679	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chlorodibromomethane	U		0.000534	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chloroethane	U		0.00128	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chloroform	U		0.000492	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Chloromethane	U		0.00165	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
2-Chlorotoluene	U		0.00109	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
4-Chlorotoluene	U		0.00134	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dibromo-3-Chloropropane	U		0.00605	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dibromoethane	U		0.000622	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Dibromomethane	U		0.00119	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dichlorobenzene	U		0.00172	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,3-Dichlorobenzene	U		0.00202	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,4-Dichlorobenzene	U		0.00234	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Dichlorodifluoromethane	U		0.000970	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1-Dichloroethane	U		0.000682	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dichloroethane	U		0.000563	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1-Dichloroethene	0.00433		0.000593	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
cis-1,2-Dichloroethene	0.0191		0.000818	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
trans-1,2-Dichloroethene	U		0.00170	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2-Dichloropropane	U		0.00151	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1-Dichloropropene	U		0.000830	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,3-Dichloropropane	U		0.00207	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
cis-1,3-Dichloropropene	U		0.000804	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
trans-1,3-Dichloropropene	U		0.00181	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
trans-1,4-Dichloro-2-butene	U		0.00166	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
2,2-Dichloropropane	U		0.000940	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Di-isopropyl ether	U		0.000415	0.00119	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Ethylbenzene	U		0.000628	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Hexachloro-1,3-butadiene	U		0.0151	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
2-Hexanone	U		0.0119	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
n-Hexane	U		0.00126	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Iodomethane	U		0.00717	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Isopropylbenzene	U		0.00102	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
p-Isopropyltoluene	U		0.00276	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
2-Butanone (MEK)	U		0.0148	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Methylene Chloride	U		0.00787	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
4-Methyl-2-pentanone (MIBK)	U		0.0119	0.0296	1	10/26/2018 00:50	<a href="#">WG1186559</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000350	0.00119	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Naphthalene	U		0.00370	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
n-Propylbenzene	U		0.00140	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Styrene	U		0.00324	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,1,2-Tetrachloroethane	U		0.000593	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,2,2-Tetrachloroethane	U		0.000462	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,2-Trichlorotrifluoroethane	U		0.000800	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Tetrachloroethene	0.0916		0.000830	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Toluene	U		0.00148	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,3-Trichlorobenzene	U		0.000741	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,4-Trichlorobenzene	U		0.00571	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,1-Trichloroethane	U		0.000326	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,1,2-Trichloroethane	U		0.00105	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Trichloroethene	0.140		0.000474	0.00119	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Trichlorofluoromethane	U		0.000593	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,3-Trichloropropane	U		0.00605	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,4-Trimethylbenzene	U		0.00138	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,2,3-Trimethylbenzene	U		0.00136	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
1,3,5-Trimethylbenzene	U		0.00128	0.00593	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Vinyl acetate	U		0.00417	0.0148	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Vinyl chloride	U		0.000810	0.00296	1	10/26/2018 00:50	<a href="#">WG1186559</a>
Xylenes, Total	U		0.00567	0.00771	1	10/26/2018 00:50	<a href="#">WG1186559</a>
(S) Toluene-d8	105			75.0-131		10/26/2018 00:50	<a href="#">WG1186559</a>
(S) Dibromofluoromethane	94.7			65.0-129		10/26/2018 00:50	<a href="#">WG1186559</a>
(S) 4-Bromofluorobenzene	104			67.0-138		10/26/2018 00:50	<a href="#">WG1186559</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	10/24/2018 14:15	<a href="#">WG1185771</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0663	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Acrylonitrile	U		0.00920	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Benzene	U		0.00194	0.00484	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromobenzene	U		0.00509	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromodichloromethane	U		0.00381	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromochloromethane	U		0.00547	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromoform	U		0.0289	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Bromomethane	U		0.0179	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
n-Butylbenzene	U		0.0186	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
sec-Butylbenzene	U		0.0122	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
tert-Butylbenzene	U		0.00751	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Carbon disulfide	U		0.0196	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Carbon tetrachloride	U		0.00523	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chlorobenzene	U		0.00277	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chlorodibromomethane	U		0.00218	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chloroethane	U		0.00523	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chloroform	U		0.00201	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Chloromethane	U		0.00673	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
2-Chlorotoluene	U		0.00446	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
4-Chlorotoluene	U		0.00547	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dibromo-3-Chloropropane	U		0.0247	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dibromoethane	U		0.00254	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Dibromomethane	U		0.00484	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dichlorobenzene	U		0.00702	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,3-Dichlorobenzene	U		0.00823	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,4-Dichlorobenzene	U		0.00954	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Dichlorodifluoromethane	U		0.00396	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1-Dichloroethane	U		0.00278	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dichloroethane	U		0.00230	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1-Dichloroethene	U		0.00242	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
cis-1,2-Dichloroethene	0.0238		0.00334	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
trans-1,2-Dichloroethene	U		0.00693	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2-Dichloropropane	U		0.00615	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1-Dichloropropene	U		0.00339	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,3-Dichloropropane	U		0.00848	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
cis-1,3-Dichloropropene	U		0.00328	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
trans-1,3-Dichloropropene	U		0.00741	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
trans-1,4-Dichloro-2-butene	U		0.00678	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
2,2-Dichloropropane	U		0.00384	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Di-isopropyl ether	U		0.00170	0.00484	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Ethylbenzene	U		0.00257	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Hexachloro-1,3-butadiene	U		0.0615	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
2-Hexanone	U		0.0484	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
n-Hexane	U		0.00513	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Iodomethane	U		0.0293	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Isopropylbenzene	U		0.00418	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
p-Isopropyltoluene	U		0.0113	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
2-Butanone (MEK)	U		0.0605	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Methylene Chloride	U		0.0322	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
4-Methyl-2-pentanone (MIBK)	U		0.0484	0.121	4	10/26/2018 06:14	<a href="#">WG1186559</a>

JC 11/15/18

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 10/18/18 12:15

L1036481

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00143	0.00484	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Naphthalene	U		0.0151	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
n-Propylbenzene	U		0.00571	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Styrene	U		0.0132	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,1,2-Tetrachloroethane	U		0.00242	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,2,2-Tetrachloroethane	U		0.00189	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,2-Trichlorotrifluoroethane	U		0.00327	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Tetrachloroethene	1.47		0.00339	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Toluene	U		0.00605	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,3-Trichlorobenzene	U		0.00303	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,4-Trichlorobenzene	U		0.0234	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,1-Trichloroethane	U		0.00133	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,1,2-Trichloroethane	U		0.00427	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Trichloroethene	0.564		0.00194	0.00484	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Trichlorofluoromethane	U		0.00242	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,3-Trichloropropane	U		0.0247	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,4-Trimethylbenzene	U		0.00562	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,2,3-Trimethylbenzene	U		0.00557	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
1,3,5-Trimethylbenzene	U		0.00523	0.0242	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Vinyl acetate	U		0.0171	0.0605	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Vinyl chloride	U		0.00331	0.0121	4	10/26/2018 06:14	<a href="#">WG1186559</a>
Xylenes, Total	U		0.0231	0.0315	4	10/26/2018 06:14	<a href="#">WG1186559</a>
(S) Toluene-d8	107			75.0-131		10/26/2018 06:14	<a href="#">WG1186559</a>
(S) Dibromofluoromethane	99.2			65.0-129		10/26/2018 06:14	<a href="#">WG1186559</a>
(S) 4-Bromofluorobenzene	106			67.0-138		10/26/2018 06:14	<a href="#">WG1186559</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Sample Narrative:

L1036481-03 WG1186559: Diluted due to high levels of target analytes.

JC 11/15/18



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	246	J+ B	31.6	100	1	10/31/2018 19:40	WG1189237
(S) a,a,a-Trifluorotoluene(FID)	91.7			78.0-120		10/31/2018 19:40	WG1189237

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	3.87	J J	1.05	25.0	1	11/06/2018 13:41	WG1188129
Acrylonitrile	U		0.873	5.00	1	11/06/2018 13:41	WG1188129
Benzene	U		0.0896	0.500	1	11/06/2018 13:41	WG1188129
Bromobenzene	U		0.133	0.500	1	11/06/2018 13:41	WG1188129
Bromodichloromethane	U		0.0800	0.500	1	11/06/2018 13:41	WG1188129
Bromochloromethane	U		0.145	0.500	1	11/06/2018 13:41	WG1188129
Bromoform	U		0.186	0.500	1	11/06/2018 13:41	WG1188129
Bromomethane	U		0.157	2.50	1	11/06/2018 13:41	WG1188129
n-Butylbenzene	U		0.143	0.500	1	11/06/2018 13:41	WG1188129
sec-Butylbenzene	U		0.134	0.500	1	11/06/2018 13:41	WG1188129
tert-Butylbenzene	U		0.183	0.500	1	11/06/2018 13:41	WG1188129
Carbon disulfide	U		0.101	0.500	1	11/06/2018 13:41	WG1188129
Carbon tetrachloride	U		0.159	0.500	1	11/06/2018 13:41	WG1188129
Chlorobenzene	U		0.140	0.500	1	11/06/2018 13:41	WG1188129
Chlorodibromomethane	U		0.128	0.500	1	11/06/2018 13:41	WG1188129
Chloroethane	U		0.141	2.50	1	11/06/2018 13:41	WG1188129
Chloroform	U		0.0860	0.500	1	11/06/2018 13:41	WG1188129
Chloromethane	U		0.153	1.25	1	11/06/2018 13:41	WG1188129
2-Chlorotoluene	U		0.111	0.500	1	11/06/2018 13:41	WG1188129
4-Chlorotoluene	U		0.0972	0.500	1	11/06/2018 13:41	WG1188129
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	11/06/2018 13:41	WG1188129
1,2-Dibromoethane	U		0.193	0.500	1	11/06/2018 13:41	WG1188129
Dibromomethane	U		0.117	0.500	1	11/06/2018 13:41	WG1188129
1,2-Dichlorobenzene	U		0.101	0.500	1	11/06/2018 13:41	WG1188129
1,3-Dichlorobenzene	U		0.130	0.500	1	11/06/2018 13:41	WG1188129
1,4-Dichlorobenzene	U		0.121	0.500	1	11/06/2018 13:41	WG1188129
Dichlorodifluoromethane	U		0.127	2.50	1	11/06/2018 13:41	WG1188129
1,1-Dichloroethane	U		0.114	0.500	1	11/06/2018 13:41	WG1188129
1,2-Dichloroethane	U		0.108	0.500	1	11/06/2018 13:41	WG1188129
1,1-Dichloroethene	U		0.188	0.500	1	11/06/2018 13:41	WG1188129
cis-1,2-Dichloroethene	2.11	J+ B	0.0933	0.500	1	11/06/2018 13:41	WG1188129
trans-1,2-Dichloroethene	0.435	J J	0.152	0.500	1	11/06/2018 13:41	WG1188129
1,2-Dichloropropane	U		0.190	0.500	1	11/06/2018 13:41	WG1188129
1,1-Dichloropropene	U		0.128	0.500	1	11/06/2018 13:41	WG1188129
1,3-Dichloropropane	U		0.147	1.00	1	11/06/2018 13:41	WG1188129
cis-1,3-Dichloropropene	U		0.0976	0.500	1	11/06/2018 13:41	WG1188129
trans-1,3-Dichloropropene	U		0.222	0.500	1	11/06/2018 13:41	WG1188129
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/06/2018 13:41	WG1188129
2,2-Dichloropropane	U		0.0929	0.500	1	11/06/2018 13:41	WG1188129
Di-isopropyl ether	U		0.0924	0.500	1	11/06/2018 13:41	WG1188129
Ethylbenzene	U		0.158	0.500	1	11/06/2018 13:41	WG1188129
Hexachloro-1,3-butadiene	0.202	U B J	0.157	1.00	1	11/06/2018 13:41	WG1188129
2-Hexanone	U		0.757	5.00	1	11/06/2018 13:41	WG1188129
n-Hexane	U		0.305	5.00	1	11/06/2018 13:41	WG1188129
Iodomethane	U		0.377	10.0	1	11/06/2018 13:41	WG1188129
Isopropylbenzene	U		0.126	0.500	1	11/06/2018 13:41	WG1188129
p-Isopropyltoluene	U		0.138	0.500	1	11/06/2018 13:41	WG1188129
2-Butanone (MEK)	U		1.28	5.00	1	11/06/2018 13:41	WG1188129

JC 11/12/18



Collected date/time: 10/26/18 13:00

L1038864

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Methyl tert-butyl ether	U		0.102	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Naphthalene	0.191	J J	0.174	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
n-Propylbenzene	U		0.162	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Styrene	U		0.117	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Tetrachloroethene	U		0.199	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Toluene	0.587		0.412	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,3-Trichlorobenzene	0.181	U BJ	0.164	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Trichloroethene	U		0.153	0.500	1	11/06/2018 16:15	<a href="#">WG1192268</a>
Trichlorofluoromethane	U		0.130	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Vinyl acetate	U	UJ JO	0.645	5.00	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Vinyl chloride	1.80		0.118	0.500	1	11/06/2018 13:41	<a href="#">WG1188129</a>
Xylenes, Total	U		0.316	1.50	1	11/06/2018 13:41	<a href="#">WG1188129</a>
(S) Toluene-d8	99.4			80.0-120		11/06/2018 13:41	<a href="#">WG1188129</a>
(S) Toluene-d8	103			80.0-120		11/06/2018 16:15	<a href="#">WG1192268</a>
(S) Dibromofluoromethane	108			75.0-120		11/06/2018 13:41	<a href="#">WG1188129</a>
(S) Dibromofluoromethane	97.8			75.0-120		11/06/2018 16:15	<a href="#">WG1192268</a>
(S) 4-Bromofluorobenzene	106			77.0-126		11/06/2018 13:41	<a href="#">WG1188129</a>
(S) 4-Bromofluorobenzene	99.4			77.0-126		11/06/2018 16:15	<a href="#">WG1192268</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 11/12/18





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	90.2	UJ B <sub>J</sub>	31.6	100	1	10/31/2018 20:02	WG189237
(S) a,a,a-Trifluorotoluene(FID)	92.4			78.0-120		10/31/2018 20:02	WG189237

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.42	J J <sub>JO</sub>	1.05	25.0	1	10/29/2018 18:01	WG188831
Acrylonitrile	U	UJ J <sub>O</sub>	0.873	5.00	1	10/29/2018 18:01	WG188831
Benzene	U		0.0896	0.500	1	10/29/2018 18:01	WG188831
Bromobenzene	U		0.133	0.500	1	10/29/2018 18:01	WG188831
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 18:01	WG188831
Bromochloromethane	U		0.145	0.500	1	10/29/2018 18:01	WG188831
Bromoform	U		0.186	0.500	1	10/29/2018 18:01	WG188831
Bromomethane	U	UJ J <sub>O</sub>	0.157	2.50	1	10/29/2018 18:01	WG188831
n-Butylbenzene	U	UJ J <sub>O</sub>	0.143	0.500	1	10/29/2018 18:01	WG188831
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 18:01	WG188831
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 18:01	WG188831
Carbon disulfide	0.214	J J <sub>J</sub>	0.101	0.500	1	10/29/2018 18:01	WG188831
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 18:01	WG188831
Chlorobenzene	U		0.140	0.500	1	10/29/2018 18:01	WG188831
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 18:01	WG188831
Chloroethane	U	UJ J <sub>O</sub>	0.141	2.50	1	10/29/2018 18:01	WG188831
Chloroform	U		0.0860	0.500	1	10/29/2018 18:01	WG188831
Chloromethane	U		0.153	1.25	1	11/05/2018 14:11	WG191566
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 18:01	WG188831
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 18:01	WG188831
1,2-Dibromo-3-Chloropropane	U	UJ J <sub>O</sub>	0.325	2.50	1	10/29/2018 18:01	WG188831
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 18:01	WG188831
Dibromomethane	U		0.117	0.500	1	10/29/2018 18:01	WG188831
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 18:01	WG188831
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 18:01	WG188831
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 18:01	WG188831
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 14:11	WG191566
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 18:01	WG188831
1,2-Dichloroethane	U	UJ J <sub>O</sub>	0.108	0.500	1	10/29/2018 18:01	WG188831
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 18:01	WG188831
cis-1,2-Dichloroethene	2.01		0.0933	0.500	1	10/29/2018 18:01	WG188831
trans-1,2-Dichloroethene	0.410	J J <sub>J</sub>	0.152	0.500	1	10/29/2018 18:01	WG188831
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 18:01	WG188831
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 18:01	WG188831
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 18:01	WG188831
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 18:01	WG188831
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 18:01	WG188831
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 14:11	WG191566
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 18:01	WG188831
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 18:01	WG188831
Ethylbenzene	U		0.158	0.500	1	10/29/2018 18:01	WG188831
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 18:01	WG188831
2-Hexanone	U		0.757	5.00	1	10/29/2018 18:01	WG188831
n-Hexane	U		0.305	5.00	1	10/29/2018 18:01	WG188831
Iodomethane	U		0.377	10.0	1	10/29/2018 18:01	WG188831
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 18:01	WG188831
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 18:01	WG188831
2-Butanone (MEK)	U	UJ J <sub>O</sub>	1.28	5.00	1	10/29/2018 18:01	WG188831

JC 11/12/18



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		1.07	2.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Naphthalene	U	<u>UJ</u> <u>JO</u>	0.174	2.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Tetrachloroethene	U		0.199	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Toluene	0.641		0.412	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>UJ</u> <u>JO</u>	0.164	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Trichloroethene	U		0.153	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Vinyl chloride	1.41		0.118	0.500	1	10/29/2018 18:01	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 18:01	<a href="#">WG1188131</a>
(S) Toluene-d8	102			80.0-120		10/29/2018 18:01	<a href="#">WG1188131</a>
(S) Toluene-d8	104			80.0-120		11/05/2018 14:11	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	93.0			75.0-120		10/29/2018 18:01	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.6			75.0-120		11/05/2018 14:11	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	103			77.0-126		10/29/2018 18:01	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	84.1			77.0-126		11/05/2018 14:11	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	36700		632	2000	20	10/31/2018 20:25	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	92.6			78.0-120		10/31/2018 20:25	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	65.4	J J JO	52.5	1250	50	10/29/2018 18:21	<a href="#">WG188131</a>
Acrylonitrile	U	UJ JO	43.6	250	50	10/29/2018 18:21	<a href="#">WG188131</a>
Benzene	U		4.48	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromobenzene	U		6.65	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromodichloromethane	U		4.00	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromochloromethane	U		7.25	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromoform	U		9.30	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Bromomethane	U	UJ JO	7.85	125	50	10/29/2018 18:21	<a href="#">WG188131</a>
n-Butylbenzene	U	UJ JO	7.15	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
sec-Butylbenzene	U		6.70	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
tert-Butylbenzene	U		9.15	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Carbon disulfide	U		5.05	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Carbon tetrachloride	U		7.95	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chlorobenzene	U		7.00	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chlorodibromomethane	U		6.40	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chloroethane	U	UJ JO	7.05	125	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chloroform	4.46	J J	4.30	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Chloromethane	U		306	2500	2000	11/05/2018 15:50	<a href="#">WG191566</a>
2-Chlorotoluene	U		5.55	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
4-Chlorotoluene	U		4.86	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	16.2	125	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dibromoethane	U		9.65	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Dibromomethane	U		5.85	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		5.05	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		6.50	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		6.05	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		254	5000	2000	11/05/2018 15:50	<a href="#">WG191566</a>
1,1-Dichloroethane	U		5.70	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dichloroethane	U	UJ JO	5.40	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,1-Dichloroethene	86.9		9.40	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	73000		187	1000	2000	11/05/2018 15:50	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	109		7.60	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,2-Dichloropropane	U		9.50	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,1-Dichloropropene	U		6.40	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
1,3-Dichloropropane	U		7.35	50.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		4.88	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		11.1	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		514	10000	2000	11/05/2018 15:50	<a href="#">WG191566</a>
2,2-Dichloropropane	U		4.64	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Di-isopropyl ether	U		4.62	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Ethylbenzene	U		7.90	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		7.85	50.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
2-Hexanone	U		37.8	250	50	10/29/2018 18:21	<a href="#">WG188131</a>
n-Hexane	U		15.2	250	50	10/29/2018 18:21	<a href="#">WG188131</a>
Iodomethane	U		18.8	500	50	10/29/2018 18:21	<a href="#">WG188131</a>
Isopropylbenzene	U		6.30	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
p-Isopropyltoluene	U		6.90	25.0	50	10/29/2018 18:21	<a href="#">WG188131</a>
2-Butanone (MEK)	213	J J JO	64.0	250	50	10/29/2018 18:21	<a href="#">WG188131</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methylene Chloride	U		53.5	125	50	10/29/2018 18:21	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		41.2	250	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		5.10	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Naphthalene	U	UJ JO	8.70	125	50	10/29/2018 18:21	<a href="#">WG1188131</a>
n-Propylbenzene	U		8.10	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Styrene	U		5.85	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		6.00	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		6.50	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		8.20	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Tetrachloroethene	1960		9.95	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Toluene	U		20.6	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	UJ JO	8.20	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		17.8	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		4.70	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		9.30	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Trichloroethene	3150		7.65	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		6.50	125	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		12.4	125	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		6.15	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		3.70	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		6.20	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Vinyl acetate	U		32.2	250	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Vinyl chloride	4510		5.90	25.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
Xylenes, Total	U		15.8	75.0	50	10/29/2018 18:21	<a href="#">WG1188131</a>
(S) Toluene-d8	102			80.0-120		10/29/2018 18:21	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		11/05/2018 15:50	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	91.7			75.0-120		10/29/2018 18:21	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	91.4			75.0-120		11/05/2018 15:50	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		10/29/2018 18:21	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	87.7			77.0-126		11/05/2018 15:50	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1038864-03 WG1188131, WG1191566: Not all compounds reportable at lower dilution.  
 L1038864-03 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	99.4	U	B <sub>J</sub>	31.6	100	1	10/31/2018 20:48 <a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	92.4				78.0-120		10/31/2018 20:48 <a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	107	J	J <sub>O</sub>	1.05	25.0	1	10/29/2018 18:40 <a href="#">WG188131</a>
Acrylonitrile	U	UJ	J <sub>O</sub>	0.873	5.00	1	10/29/2018 18:40 <a href="#">WG188131</a>
Benzene	0.167	J	J	0.0896	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Bromobenzene	U			0.133	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Bromochloromethane	U			0.145	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Bromoform	U			0.186	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Bromomethane	U	UJ	J <sub>O</sub>	0.157	2.50	1	10/29/2018 18:40 <a href="#">WG188131</a>
n-Butylbenzene	U	UJ	J <sub>O</sub>	0.143	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Carbon disulfide	9.13			0.101	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Chlorobenzene	U			0.140	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Chloroethane	U	UJ	J <sub>O</sub>	0.141	2.50	1	10/29/2018 18:40 <a href="#">WG188131</a>
Chloroform	1.02			0.0860	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Chloromethane	U			0.153	1.25	1	11/05/2018 14:31 <a href="#">WG191566</a>
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ	J <sub>O</sub>	0.325	2.50	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Dibromomethane	U			0.117	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 14:31 <a href="#">WG191566</a>
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,2-Dichloroethane	U	UJ	J <sub>O</sub>	0.108	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
cis-1,2-Dichloroethene	5.80			0.0933	0.500	1	11/05/2018 14:31 <a href="#">WG191566</a>
trans-1,2-Dichloroethene	0.346	J	J	0.152	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 18:40 <a href="#">WG188131</a>
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 14:31 <a href="#">WG191566</a> JC 11/12/18
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Ethylbenzene	U			0.158	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 18:40 <a href="#">WG188131</a>
2-Hexanone	U			0.757	5.00	1	10/29/2018 18:40 <a href="#">WG188131</a>
n-Hexane	U			0.305	5.00	1	10/29/2018 18:40 <a href="#">WG188131</a>
Iodomethane	U			0.377	10.0	1	10/29/2018 18:40 <a href="#">WG188131</a>
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 18:40 <a href="#">WG188131</a>
2-Butanone (MEK)	31.7	J	J <sub>O</sub>	1.28	5.00	1	10/29/2018 18:40 <a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Naphthalene	U	<b>UJ</b> <u>JO</u>	0.174	2.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Tetrachloroethene	2.28		0.199	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<b>UJ</b> <u>JO</u>	0.164	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Trichloroethene	1.38		0.153	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Vinyl chloride	7.70		0.118	0.500	1	10/29/2018 18:40	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 18:40	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 18:40	<a href="#">WG1188131</a>
(S) Toluene-d8	105			80.0-120		11/05/2018 14:31	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	92.1			75.0-120		10/29/2018 18:40	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.7			75.0-120		11/05/2018 14:31	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	99.4			77.0-126		10/29/2018 18:40	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	86.2			77.0-126		11/05/2018 14:31	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 11/12/18



Collected date/time: 10/25/18 14:47

L1038864

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	57.6	U B <sub>J</sub>	31.6	100	1	10/31/2018 21:11	WG189237
(S) a,a,a-Trifluorotoluene(FID)	92.7			78.0-120		10/31/2018 21:11	WG189237

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	6.30	J J <sub>JO</sub>	1.05	25.0	1	10/29/2018 19:00	WG188131
Acrylonitrile	U	UJ J <sub>O</sub>	0.873	5.00	1	10/29/2018 19:00	WG188131
Benzene	U		0.0896	0.500	1	10/29/2018 19:00	WG188131
Bromobenzene	U		0.133	0.500	1	10/29/2018 19:00	WG188131
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 19:00	WG188131
Bromochloromethane	U		0.145	0.500	1	10/29/2018 19:00	WG188131
Bromoform	U		0.186	0.500	1	10/29/2018 19:00	WG188131
Bromomethane	U	UJ J <sub>O</sub>	0.157	2.50	1	10/29/2018 19:00	WG188131
n-Butylbenzene	U	UJ J <sub>O</sub>	0.143	0.500	1	10/29/2018 19:00	WG188131
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 19:00	WG188131
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 19:00	WG188131
Carbon disulfide	0.152	J J <sub>J</sub>	0.101	0.500	1	10/29/2018 19:00	WG188131
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 19:00	WG188131
Chlorobenzene	U		0.140	0.500	1	10/29/2018 19:00	WG188131
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 19:00	WG188131
Chloroethane	U	UJ J <sub>O</sub>	0.141	2.50	1	10/29/2018 19:00	WG188131
Chloroform	U		0.0860	0.500	1	10/29/2018 19:00	WG188131
Chloromethane	U		0.153	1.25	1	11/05/2018 14:51	WG191566
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 19:00	WG188131
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 19:00	WG188131
1,2-Dibromo-3-Chloropropane	U	UJ J <sub>O</sub>	0.325	2.50	1	10/29/2018 19:00	WG188131
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 19:00	WG188131
Dibromomethane	U		0.117	0.500	1	10/29/2018 19:00	WG188131
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 19:00	WG188131
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 19:00	WG188131
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 19:00	WG188131
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 14:51	WG191566
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 19:00	WG188131
1,2-Dichloroethane	U	UJ J <sub>O</sub>	0.108	0.500	1	10/29/2018 19:00	WG188131
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 19:00	WG188131
cis-1,2-Dichloroethene	1.65	J+ B <sub>J</sub>	0.0933	0.500	1	11/05/2018 14:51	WG191566
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 19:00	WG188131
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 19:00	WG188131
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 19:00	WG188131
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 19:00	WG188131
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 19:00	WG188131
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 19:00	WG188131
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 14:51	WG191566
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 19:00	WG188131
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 19:00	WG188131
Ethylbenzene	U		0.158	0.500	1	10/29/2018 19:00	WG188131
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 19:00	WG188131
2-Hexanone	U		0.757	5.00	1	10/29/2018 19:00	WG188131
n-Hexane	U		0.305	5.00	1	10/29/2018 19:00	WG188131
Iodomethane	U		0.377	10.0	1	10/29/2018 19:00	WG188131
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 19:00	WG188131
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 19:00	WG188131
2-Butanone (MEK)	2.26	J J <sub>JO</sub>	1.28	5.00	1	10/29/2018 19:00	WG188131

JC 11/12/18



Collected date/time: 10/25/18 14:47

L1038864

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Naphthalene	U	UJ JO	0.174	2.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Tetrachloroethene	0.895		0.199	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Trichloroethene	0.347	J J	0.153	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Vinyl chloride	1.83		0.118	0.500	1	10/29/2018 19:00	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 19:00	<a href="#">WG1188131</a>
(S) Toluene-d8	102			80.0-120		10/29/2018 19:00	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 14:51	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	92.2			75.0-120		10/29/2018 19:00	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.1			75.0-120		11/05/2018 14:51	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	95.9			77.0-126		10/29/2018 19:00	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	85.9			77.0-126		11/05/2018 14:51	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 11/12/18





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	47.4	U	<u>B</u> J	31.6	100	1	10/31/2018 21:33 <a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	92.9				78.0-120		10/31/2018 21:33 <a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.08	J	<u>J</u> JO	1.05	25.0	1	10/29/2018 19:19 <a href="#">WG188131</a>
Acrylonitrile	U	UJ	<u>J</u> O	0.873	5.00	1	10/29/2018 19:19 <a href="#">WG188131</a>
Benzene	U			0.0896	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Bromobenzene	U			0.133	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Bromochloromethane	U			0.145	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Bromoform	U			0.186	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Bromomethane	U	UJ	<u>J</u> O	0.157	2.50	1	10/29/2018 19:19 <a href="#">WG188131</a>
n-Butylbenzene	U	UJ	<u>J</u> O	0.143	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Carbon disulfide	0.156	J	<u>J</u>	0.101	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Chlorobenzene	U			0.140	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Chloroethane	U	UJ	<u>J</u> O	0.141	2.50	1	10/29/2018 19:19 <a href="#">WG188131</a>
Chloroform	U			0.0860	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Chloromethane	U			0.153	1.25	1	11/05/2018 15:10 <a href="#">WG191566</a>
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ	<u>J</u> O	0.325	2.50	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Dibromomethane	U			0.117	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 15:10 <a href="#">WG191566</a>
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,2-Dichloroethane	U	UJ	<u>J</u> O	0.108	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
cis-1,2-Dichloroethene	0.454	U	<u>B</u> J	0.0933	0.500	1	11/05/2018 15:10 <a href="#">WG191566</a>
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 19:19 <a href="#">WG188131</a>
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 15:10 <a href="#">WG191566</a>
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Ethylbenzene	U			0.158	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 19:19 <a href="#">WG188131</a>
2-Hexanone	U			0.757	5.00	1	10/29/2018 19:19 <a href="#">WG188131</a>
n-Hexane	U			0.305	5.00	1	10/29/2018 19:19 <a href="#">WG188131</a>
Iodomethane	U			0.377	10.0	1	10/29/2018 19:19 <a href="#">WG188131</a>
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 19:19 <a href="#">WG188131</a>
2-Butanone (MEK)	U	UJ	<u>J</u> O	1.28	5.00	1	10/29/2018 19:19 <a href="#">WG188131</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Naphthalene	U	<u>UJ</u> <u>JO</u>	0.174	2.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Tetrachloroethene	1.29		0.199	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>UJ</u> <u>JO</u>	0.164	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Trichloroethene	0.282	<u>J</u> <u>J</u>	0.153	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Vinyl chloride	U		0.118	0.500	1	10/29/2018 19:19	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 19:19	<a href="#">WG1188131</a>
(S) Toluene-d8	99.4			80.0-120		10/29/2018 19:19	<a href="#">WG1188131</a>
(S) Toluene-d8	108			80.0-120		11/05/2018 15:10	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	93.4			75.0-120		10/29/2018 19:19	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.6			75.0-120		11/05/2018 15:10	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	97.9			77.0-126		10/29/2018 19:19	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	82.0			77.0-126		11/05/2018 15:10	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 11/12/18



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	48.3	U BJ	31.6	100	1	10/31/2018 21:56	WG189237
(S) a,a,a-Trifluorotoluene(FID)	93.0			78.0-120		10/31/2018 21:56	WG189237

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	UJ JO	1.05	25.0	1	10/29/2018 19:38	WG188131
Acrylonitrile	U	UJ JO	0.873	5.00	1	10/29/2018 19:38	WG188131
Benzene	U		0.0896	0.500	1	10/29/2018 19:38	WG188131
Bromobenzene	U		0.133	0.500	1	10/29/2018 19:38	WG188131
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 19:38	WG188131
Bromochloromethane	U		0.145	0.500	1	10/29/2018 19:38	WG188131
Bromoform	U		0.186	0.500	1	10/29/2018 19:38	WG188131
Bromomethane	U	UJ JO	0.157	2.50	1	10/29/2018 19:38	WG188131
n-Butylbenzene	U	UJ JO	0.143	0.500	1	10/29/2018 19:38	WG188131
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 19:38	WG188131
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 19:38	WG188131
Carbon disulfide	U		0.101	0.500	1	10/29/2018 19:38	WG188131
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 19:38	WG188131
Chlorobenzene	U		0.140	0.500	1	10/29/2018 19:38	WG188131
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 19:38	WG188131
Chloroethane	U	UJ JO	0.141	2.50	1	10/29/2018 19:38	WG188131
Chloroform	U		0.0860	0.500	1	10/29/2018 19:38	WG188131
Chloromethane	U		0.153	1.25	1	11/05/2018 15:30	WG191566
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 19:38	WG188131
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 19:38	WG188131
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	10/29/2018 19:38	WG188131
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 19:38	WG188131
Dibromomethane	U		0.117	0.500	1	10/29/2018 19:38	WG188131
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 19:38	WG188131
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 19:38	WG188131
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 19:38	WG188131
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 15:30	WG191566
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 19:38	WG188131
1,2-Dichloroethane	U	UJ JO	0.108	0.500	1	10/29/2018 19:38	WG188131
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 19:38	WG188131
cis-1,2-Dichloroethene	12.1		0.0933	0.500	1	10/29/2018 19:38	WG188131
trans-1,2-Dichloroethene	0.254	J J	0.152	0.500	1	10/29/2018 19:38	WG188131
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 19:38	WG188131
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 19:38	WG188131
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 19:38	WG188131
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 19:38	WG188131
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 19:38	WG188131
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 15:30	WG191566
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 19:38	WG188131
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 19:38	WG188131
Ethylbenzene	U		0.158	0.500	1	10/29/2018 19:38	WG188131
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 19:38	WG188131
2-Hexanone	U		0.757	5.00	1	10/29/2018 19:38	WG188131
n-Hexane	U		0.305	5.00	1	10/29/2018 19:38	WG188131
Iodomethane	U		0.377	10.0	1	10/29/2018 19:38	WG188131
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 19:38	WG188131
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 19:38	WG188131
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	10/29/2018 19:38	WG188131

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Naphthalene	U	<u>UJ</u> <u>JO</u>	0.174	2.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Tetrachloroethene	3.53		0.199	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>UJ</u> <u>JO</u>	0.164	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Trichloroethene	0.750		0.153	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Vinyl chloride	158		0.118	0.500	1	10/29/2018 19:38	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 19:38	<a href="#">WG1188131</a>
(S) Toluene-d8	101			80.0-120		10/29/2018 19:38	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		11/05/2018 15:30	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	94.0			75.0-120		10/29/2018 19:38	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.5			75.0-120		11/05/2018 15:30	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	97.7			77.0-126		10/29/2018 19:38	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	87.5			77.0-126		11/05/2018 15:30	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	31800		632	2000	20	10/31/2018 22:19	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	93.4			78.0-120		10/31/2018 22:19	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ JO	26.2	625	25	10/29/2018 19:57	<a href="#">WG188131</a>
Acrylonitrile	U	UJ JO	21.8	125	25	10/29/2018 19:57	<a href="#">WG188131</a>
Benzene	U		2.24	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromobenzene	U		3.32	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromodichloromethane	U		2.00	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromochloromethane	U		3.62	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromoform	U		4.65	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Bromomethane	U	UJ JO	3.92	62.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
n-Butylbenzene	U	UJ JO	3.58	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
sec-Butylbenzene	U		3.35	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
tert-Butylbenzene	U		4.58	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Carbon disulfide	U		2.52	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Carbon tetrachloride	U		3.98	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chlorobenzene	U		3.50	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chlorodibromomethane	U		3.20	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chloroethane	U	UJ JO	3.52	62.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chloroform	U		2.15	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Chloromethane	U		153	1250	1000	11/05/2018 16:10	<a href="#">WG191566</a>
2-Chlorotoluene	U		2.78	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
4-Chlorotoluene	U		2.43	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	8.12	62.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dibromoethane	U		4.82	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Dibromomethane	U		2.92	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		2.52	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		3.25	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		3.02	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		127	2500	1000	11/05/2018 16:10	<a href="#">WG191566</a>
1,1-Dichloroethane	U		2.85	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dichloroethane	U	UJ JO	2.70	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,1-Dichloroethene	167		4.70	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	40400		93.3	500	1000	11/05/2018 16:10	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	54.4		3.80	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,2-Dichloropropane	U		4.75	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,1-Dichloropropene	U		3.20	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
1,3-Dichloropropane	U		3.68	25.0	25	10/29/2018 19:57	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		2.44	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		5.55	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		257	5000	1000	11/05/2018 16:10	<a href="#">WG191566</a>
2,2-Dichloropropane	U		2.32	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Di-isopropyl ether	U		2.31	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Ethylbenzene	U		3.95	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		3.92	25.0	25	10/29/2018 19:57	<a href="#">WG188131</a>
2-Hexanone	U		18.9	125	25	10/29/2018 19:57	<a href="#">WG188131</a>
n-Hexane	U		7.62	125	25	10/29/2018 19:57	<a href="#">WG188131</a>
Iodomethane	U		9.42	250	25	10/29/2018 19:57	<a href="#">WG188131</a>
Isopropylbenzene	U		3.15	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
p-Isopropyltoluene	U		3.45	12.5	25	10/29/2018 19:57	<a href="#">WG188131</a>
2-Butanone (MEK)	U	UJ JO	32.0	125	25	10/29/2018 19:57	<a href="#">WG188131</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		26.8	62.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		20.6	125	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		2.55	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Naphthalene	U	UJ JO	4.35	62.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
n-Propylbenzene	U		4.05	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Styrene	U		2.92	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		3.00	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		3.25	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		4.10	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Tetrachloroethene	45900		199	500	1000	11/05/2018 16:10	<a href="#">WG1191566</a>
Toluene	U		10.3	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	UJ JO	4.10	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		8.88	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		2.35	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		4.65	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Trichloroethene	8330		30.6	100	200	11/05/2018 18:09	<a href="#">WG1191566</a>
Trichlorofluoromethane	U		3.25	62.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		6.18	62.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		3.08	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		1.85	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		3.10	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Vinyl acetate	U		16.1	125	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Vinyl chloride	1170		2.95	12.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
Xylenes, Total	U		7.90	37.5	25	10/29/2018 19:57	<a href="#">WG1188131</a>
(S) Toluene-d8	104			80.0-120		10/29/2018 19:57	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 18:09	<a href="#">WG1191566</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 16:10	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	92.4			75.0-120		10/29/2018 19:57	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	92.1			75.0-120		11/05/2018 16:10	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	90.8			75.0-120		11/05/2018 18:09	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		10/29/2018 19:57	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	83.3			77.0-126		11/05/2018 18:09	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	85.6			77.0-126		11/05/2018 16:10	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1038864-08 WG1188131, WG1191566: Not all compounds reportable at lower dilution.  
 L1038864-08 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	14600		158	500	5	10/31/2018 22:42	<a href="#">WG189237</a>
(S) a,a,a-Trifluorotoluene(FID)	94.3			78.0-120		10/31/2018 22:42	<a href="#">WG189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	9.83	J JO	1.05	25.0	1	10/29/2018 20:17	<a href="#">WG188131</a>
Acrylonitrile	U	UJ JO	0.873	5.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
Benzene	0.413	J J	0.0896	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Bromomethane	U	UJ JO	0.157	2.50	1	10/29/2018 20:17	<a href="#">WG188131</a>
n-Butylbenzene	U	UJ JO	0.143	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Carbon disulfide	1.76		0.101	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chloroethane	U	UJ JO	0.141	2.50	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chloroform	0.591		0.0860	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Chloromethane	U		76.5	625	500	11/05/2018 16:30	<a href="#">WG191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		63.5	1250	500	11/05/2018 16:30	<a href="#">WG191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dichloroethane	U	UJ JO	0.108	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,1-Dichloroethene	61.9		0.188	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	17700		46.6	250	500	11/05/2018 16:30	<a href="#">WG191566</a>
trans-1,2-Dichloroethene	49.7		0.152	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		128	2500	500	11/05/2018 16:30	<a href="#">WG191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Ethylbenzene	0.226	J J	0.158	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 20:17	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 20:17	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 20:17	<a href="#">WG188131</a>
2-Butanone (MEK)	3.56	J JO	1.28	5.00	1	10/29/2018 20:17	<a href="#">WG188131</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Naphthalene	0.209	J JJ	0.174	2.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Tetrachloroethene	15200		99.5	250	500	11/05/2018 16:30	<a href="#">WG1191566</a>
Toluene	2.53		0.412	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Trichloroethene	8800		76.5	250	500	11/05/2018 16:30	<a href="#">WG1191566</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	0.576		0.123	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	0.317	J J	0.0739	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	0.162	J J	0.124	0.500	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 20:17	<a href="#">WG1188131</a>
Vinyl chloride	1430		59.0	250	500	11/05/2018 16:30	<a href="#">WG1191566</a>
Xylenes, Total	1.13	J J	0.316	1.50	1	10/29/2018 20:17	<a href="#">WG1188131</a>
(S) Toluene-d8	104			80.0-120		10/29/2018 20:17	<a href="#">WG1188131</a>
(S) Toluene-d8	107			80.0-120		11/05/2018 16:30	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	92.0			75.0-120		10/29/2018 20:17	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.4			75.0-120		11/05/2018 16:30	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	98.8			77.0-126		10/29/2018 20:17	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	84.2			77.0-126		11/05/2018 16:30	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1038864-09 WG1188131, WG1191566: Not all compounds reportable at lower dilution.  
 L1038864-09 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	4570		31.6	100	1	10/31/2018 23:04	<a href="#">WG1189237</a>
(S) a,a,a-Trifluorotoluene(FID)	95.2			78.0-120		10/31/2018 23:04	<a href="#">WG1189237</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.71	J JO	1.05	25.0	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Acrylonitrile	U	UJ JO	0.873	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Benzene	U		0.0896	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Bromomethane	U	UJ JO	0.157	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
n-Butylbenzene	U	UJ JO	0.143	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Carbon disulfide	0.181	J J	0.101	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chloroethane	14.2	J JO	0.141	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chloroform	0.395	J J	0.0860	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Chloromethane	U		30.6	250	200	11/05/2018 16:50	<a href="#">WG1191566</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Dichlorodifluoromethane	U		25.4	500	200	11/05/2018 16:50	<a href="#">WG1191566</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dichloroethane	U	UJ JO	0.108	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1-Dichloroethene	25.7		0.188	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
cis-1,2-Dichloroethene	3320		18.7	100	200	11/05/2018 16:50	<a href="#">WG1191566</a>
trans-1,2-Dichloroethene	15.3		0.152	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
trans-1,4-Dichloro-2-butene	U		51.4	1000	200	11/05/2018 16:50	<a href="#">WG1191566</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Naphthalene	U	UJ JO	0.174	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Tetrachloroethene	6100		39.8	100	200	11/05/2018 16:50	<a href="#">WG1191566</a>
Toluene	U		0.412	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Trichloroethene	2720		30.6	100	200	11/05/2018 16:50	<a href="#">WG1191566</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	0.139	J L	0.123	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Vinyl chloride	100		0.118	0.500	1	10/29/2018 20:36	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 20:36	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 20:36	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 16:50	<a href="#">WG1191566</a>
(S) Dibromofluoromethane	90.4			75.0-120		10/29/2018 20:36	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	89.8			75.0-120		11/05/2018 16:50	<a href="#">WG1191566</a>
(S) 4-Bromofluorobenzene	98.5			77.0-126		10/29/2018 20:36	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	86.6			77.0-126		11/05/2018 16:50	<a href="#">WG1191566</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1038864-10 WG1188131, WG1191566: Not all compounds reportable at lower dilution.  
 L1038864-10 WG1188131, WG1191566: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	38.2	U	<u>B</u> J	31.6	100	1	11/01/2018 17:54 <a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7				78.0-120		11/01/2018 17:54 <a href="#">WG189621</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	<u>UJ</u>	<u>JO</u>	1.05	25.0	1	10/29/2018 22:11 <a href="#">WG188131</a>
Acrylonitrile	U	<u>UJ</u>	<u>JO</u>	0.873	5.00	1	10/29/2018 22:11 <a href="#">WG188131</a>
Benzene	U			0.0896	0.500	1	11/05/2018 15:29 <a href="#">WG191602</a>
Bromobenzene	U			0.133	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Bromochloromethane	U			0.145	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Bromoform	U			0.186	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Bromomethane	U	<u>UJ</u>	<u>JO</u>	0.157	2.50	1	10/29/2018 22:11 <a href="#">WG188131</a>
n-Butylbenzene	U	<u>UJ</u>	<u>JO</u>	0.143	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Carbon disulfide	U			0.101	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Chlorobenzene	U			0.140	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Chloroethane	U	<u>UJ</u>	<u>JO</u>	0.141	2.50	1	10/29/2018 22:11 <a href="#">WG188131</a>
Chloroform	U			0.0860	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Chloromethane	U			0.153	1.25	1	11/05/2018 15:29 <a href="#">WG191602</a>
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>UJ</u>	<u>JO</u>	0.325	2.50	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Dibromomethane	U			0.117	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 15:29 <a href="#">WG191602</a>
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>UJ</u>	<u>JO</u>	0.108	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,1-Dichloroethene	U			0.188	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
cis-1,2-Dichloroethene	U			0.0933	0.500	1	11/05/2018 15:29 <a href="#">WG191602</a>
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 22:11 <a href="#">WG188131</a>
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 15:29 <a href="#">WG191602</a>
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
Ethylbenzene	U			0.158	0.500	1	11/05/2018 15:29 <a href="#">WG191602</a>
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 22:11 <a href="#">WG188131</a>
2-Hexanone	U			0.757	5.00	1	10/29/2018 22:11 <a href="#">WG188131</a>
n-Hexane	U			0.305	5.00	1	10/29/2018 22:11 <a href="#">WG188131</a>
Iodomethane	U			0.377	10.0	1	10/29/2018 22:11 <a href="#">WG188131</a>
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 22:11 <a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>UJ</u>	<u>JO</u>	1.28	5.00	1	10/29/2018 22:11 <a href="#">WG188131</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:11	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Naphthalene	U	UJ JO	0.174	2.50	1	11/05/2018 15:29	<a href="#">WG1191602</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Tetrachloroethene	U		0.199	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
Toluene	U		0.412	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Trichloroethene	U		0.153	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:11	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	11/05/2018 15:29	<a href="#">WG1191602</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Vinyl chloride	20.9		0.118	0.500	1	10/29/2018 22:11	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	11/05/2018 15:29	<a href="#">WG1191602</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 22:11	<a href="#">WG1188131</a>
(S) Toluene-d8	105			80.0-120		11/05/2018 15:29	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	90.8			75.0-120		10/29/2018 22:11	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	105			75.0-120		11/05/2018 15:29	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	97.8			77.0-126		10/29/2018 22:11	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	104			77.0-126		11/05/2018 15:29	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/01/2018 18:17	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			78.0-120		11/01/2018 18:17	<a href="#">WG189621</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ JO	1.05	25.0	1	10/29/2018 22:31	<a href="#">WG188131</a>
Acrylonitrile	U	UJ JO	0.873	5.00	1	10/29/2018 22:31	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	11/05/2018 15:50	<a href="#">WG191602</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Bromomethane	U	UJ JO	0.157	2.50	1	10/29/2018 22:31	<a href="#">WG188131</a>
n-Butylbenzene	U	UJ JO	0.143	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Carbon disulfide	0.317	J J	0.101	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Chloroethane	U	UJ JO	0.141	2.50	1	10/29/2018 22:31	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 15:50	<a href="#">WG191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 15:50	<a href="#">WG191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,2-Dichloroethane	U	UJ JO	0.108	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	3.10		0.0933	0.500	1	11/05/2018 15:50	<a href="#">WG191602</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 22:31	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 15:50	<a href="#">WG191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 22:31	<a href="#">WG188131</a> JC 11/12/18
2-Hexanone	U		0.757	5.00	1	10/29/2018 22:31	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 22:31	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 22:31	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 22:31	<a href="#">WG188131</a>
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	10/29/2018 22:31	<a href="#">WG188131</a>



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Naphthalene	U	UJ JO	0.174	2.50	1	11/05/2018 15:50	<a href="#">WG1191602</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Tetrachloroethene	U		0.199	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
Toluene	U		0.412	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Trichloroethene	U		0.153	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	11/05/2018 15:50	<a href="#">WG1191602</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Vinyl chloride	U		0.118	0.500	1	10/29/2018 22:31	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	11/05/2018 15:50	<a href="#">WG1191602</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 22:31	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 15:50	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	91.9			75.0-120		10/29/2018 22:31	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	103			75.0-120		11/05/2018 15:50	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	95.4			77.0-126		10/29/2018 22:31	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	107			77.0-126		11/05/2018 15:50	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1570		31.6	100	1	11/01/2018 18:39	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	95.4			78.0-120		11/01/2018 18:39	<a href="#">WG189621</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	2.91	U J JO	1.05	25.0	1	10/29/2018 22:50	<a href="#">WG188131</a>
Acrylonitrile	U	UJ JO	0.873	5.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	11/05/2018 16:10	<a href="#">WG191602</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Bromomethane	U	UJ JO	0.157	2.50	1	10/29/2018 22:50	<a href="#">WG188131</a>
n-Butylbenzene	U	UJ JO	0.143	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Carbon disulfide	0.675		0.101	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chloroethane	U	UJ JO	0.141	2.50	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 16:10	<a href="#">WG191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 16:10	<a href="#">WG191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dichloroethane	U	UJ JO	0.108	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,1-Dichloroethene	0.374	J J	0.188	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	71.2		0.0933	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	0.257	J J	0.152	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 16:10	<a href="#">WG191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 22:50	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 22:50	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 22:50	<a href="#">WG188131</a>
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	10/29/2018 22:50	<a href="#">WG188131</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 22:50	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Naphthalene	U	UJ JO	0.174	2.50	1	11/05/2018 16:10	<a href="#">WG1191602</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Tetrachloroethene	1.87	J+	0.199	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Toluene	0.618	J+	0.412	0.500	1	11/05/2018 16:10	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Trichloroethene	2.94	J+	0.153	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Vinyl chloride	43.5		0.118	0.500	1	10/29/2018 22:50	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	11/05/2018 16:10	<a href="#">WG1191602</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 22:50	<a href="#">WG1188131</a>
(S) Toluene-d8	104			80.0-120		11/05/2018 16:10	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	92.2			75.0-120		10/29/2018 22:50	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	106			75.0-120		11/05/2018 16:10	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	95.3			77.0-126		10/29/2018 22:50	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	111			77.0-126		11/05/2018 16:10	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	458		31.6	100	1	11/01/2018 19:02	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	96.7			78.0-120		11/01/2018 19:02	<a href="#">WG189621</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.14	U	<u>J JO</u>	1.05	25.0	1	10/29/2018 23:10	<a href="#">WG188131</a>
Acrylonitrile	U	G<	<u>JO</u>	0.873	5.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
Benzene	U			0.0896	0.500	1	11/05/2018 16:30	<a href="#">WG191602</a>
Bromobenzene	U			0.133	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Bromodichloromethane	U			0.0800	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Bromochloromethane	U			0.145	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Bromoform	U			0.186	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Bromomethane	U	UJ	<u>JO</u>	0.157	2.50	1	10/29/2018 23:10	<a href="#">WG188131</a>
n-Butylbenzene	U		<u>JO</u>	0.143	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
sec-Butylbenzene	U			0.134	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
tert-Butylbenzene	U			0.183	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Carbon disulfide	0.205	J	<u>J</u>	0.101	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Carbon tetrachloride	U			0.159	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chlorobenzene	U			0.140	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chlorodibromomethane	U			0.128	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chloroethane	U	UJ	<u>JO</u>	0.141	2.50	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chloroform	U			0.0860	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Chloromethane	U			0.153	1.25	1	11/05/2018 16:30	<a href="#">WG191602</a>
2-Chlorotoluene	U			0.111	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
4-Chlorotoluene	U			0.0972	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	UJ	<u>JO</u>	0.325	2.50	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dibromoethane	U			0.193	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Dibromomethane	U			0.117	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U			0.101	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U			0.130	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U			0.121	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Dichlorodifluoromethane	U			0.127	2.50	1	11/05/2018 16:30	<a href="#">WG191602</a>
1,1-Dichloroethane	U			0.114	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dichloroethane	U	UJ	<u>JO</u>	0.108	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,1-Dichloroethene	0.619			0.188	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	7.94			0.0933	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	0.257	J	<u>J</u>	0.152	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,2-Dichloropropane	U			0.190	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,1-Dichloropropene	U			0.128	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
1,3-Dichloropropane	U			0.147	1.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	11/05/2018 16:30	<a href="#">WG191602</a>
2,2-Dichloropropane	U			0.0929	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Di-isopropyl ether	U			0.0924	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Ethylbenzene	U			0.158	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
2-Hexanone	U			0.757	5.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
n-Hexane	U			0.305	5.00	1	10/29/2018 23:10	<a href="#">WG188131</a>
Iodomethane	U			0.377	10.0	1	10/29/2018 23:10	<a href="#">WG188131</a>
Isopropylbenzene	U			0.126	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
p-Isopropyltoluene	U			0.138	0.500	1	10/29/2018 23:10	<a href="#">WG188131</a>
2-Butanone (MEK)	U	UJ	<u>JO</u>	1.28	5.00	1	10/29/2018 23:10	<a href="#">WG188131</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Naphthalene	0.411	J <u>JO</u>	0.174	2.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Tetrachloroethene	1.92	J+	0.199	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	11/05/2018 16:30	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	UJ <u>JO</u>	0.164	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Trichloroethene	1.63	J+	0.153	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Vinyl chloride	3.43		0.118	0.500	1	10/29/2018 23:10	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 23:10	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 23:10	<a href="#">WG1188131</a>
(S) Toluene-d8	106			80.0-120		11/05/2018 16:30	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	91.7			75.0-120		10/29/2018 23:10	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	107			75.0-120		11/05/2018 16:30	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	95.7			77.0-126		10/29/2018 23:10	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	108			77.0-126		11/05/2018 16:30	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	86.9	U B <sub>J</sub>	31.6	100	1	11/01/2018 19:25	WG189621
(S) a,a,a-Trifluorotoluene(FID)	96.8			78.0-120		11/01/2018 19:25	WG189621

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U	UJ JO	1.05	25.0	1	10/29/2018 23:29	WG188131
Acrylonitrile	U	UJ JO	0.873	5.00	1	10/29/2018 23:29	WG188131
Benzene	U		0.0896	0.500	1	11/05/2018 16:51	WG191602
Bromobenzene	U		0.133	0.500	1	10/29/2018 23:29	WG188131
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 23:29	WG188131
Bromochloromethane	U		0.145	0.500	1	10/29/2018 23:29	WG188131
Bromoform	U		0.186	0.500	1	10/29/2018 23:29	WG188131
Bromomethane	U	UJ JO	0.157	2.50	1	10/29/2018 23:29	WG188131
n-Butylbenzene	U	UJ JO	0.143	0.500	1	10/29/2018 23:29	WG188131
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 23:29	WG188131
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 23:29	WG188131
Carbon disulfide	0.282	J J	0.101	0.500	1	10/29/2018 23:29	WG188131
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 23:29	WG188131
Chlorobenzene	U		0.140	0.500	1	10/29/2018 23:29	WG188131
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 23:29	WG188131
Chloroethane	U	UJ JO	0.141	2.50	1	10/29/2018 23:29	WG188131
Chloroform	U		0.0860	0.500	1	10/29/2018 23:29	WG188131
Chloromethane	U		0.153	1.25	1	11/05/2018 16:51	WG191602
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 23:29	WG188131
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 23:29	WG188131
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	10/29/2018 23:29	WG188131
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 23:29	WG188131
Dibromomethane	U		0.117	0.500	1	10/29/2018 23:29	WG188131
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 23:29	WG188131
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 23:29	WG188131
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 23:29	WG188131
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 16:51	WG191602
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 23:29	WG188131
1,2-Dichloroethane	U	UJ JO	0.108	0.500	1	10/29/2018 23:29	WG188131
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 23:29	WG188131
cis-1,2-Dichloroethene	0.893	J+	0.0933	0.500	1	10/29/2018 23:29	WG188131
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 23:29	WG188131
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 23:29	WG188131
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 23:29	WG188131
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 23:29	WG188131
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 23:29	WG188131
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 23:29	WG188131
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 16:51	WG191602
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 23:29	WG188131
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 23:29	WG188131
Ethylbenzene	U		0.158	0.500	1	10/29/2018 23:29	WG188131
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 23:29	WG188131
2-Hexanone	U		0.757	5.00	1	10/29/2018 23:29	WG188131
n-Hexane	U		0.305	5.00	1	10/29/2018 23:29	WG188131
Iodomethane	U		0.377	10.0	1	10/29/2018 23:29	WG188131
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 23:29	WG188131
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 23:29	WG188131
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	10/29/2018 23:29	WG188131

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 11/12/18



Collected date/time: 10/26/18 13:30

L1038867

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 23:29	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Naphthalene	U	UJ JO	0.174	2.50	1	10/29/2018 23:29	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Tetrachloroethene	0.896	J+	0.199	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Toluene	U		0.412	0.500	1	11/05/2018 16:51	<a href="#">WG1191602</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Trichloroethene	0.463	U J	0.153	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Vinyl chloride	U		0.118	0.500	1	10/29/2018 23:29	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 23:29	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 23:29	<a href="#">WG1188131</a>
(S) Toluene-d8	107			80.0-120		11/05/2018 16:51	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	91.4			75.0-120		10/29/2018 23:29	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	105			75.0-120		11/05/2018 16:51	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	94.9			77.0-126		10/29/2018 23:29	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	105			77.0-126		11/05/2018 16:51	<a href="#">WG1191602</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 11/12/18



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	41.5	<u>B</u> <u>J</u>	31.6	100	1	11/01/2018 19:47	<a href="#">WG189621</a>
(S) a,a,a-Trifluorotoluene(FID)	97.1			78.0-120		11/01/2018 19:47	<a href="#">WG189621</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.86	<u>J</u> <u>JO</u>	1.05	25.0	1	10/29/2018 23:48	<a href="#">WG188131</a>
Acrylonitrile	U	<u>JO</u>	0.873	5.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
Benzene	U		0.0896	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromobenzene	U		0.133	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromodichloromethane	U		0.0800	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromochloromethane	U		0.145	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromoform	U		0.186	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Bromomethane	U	<u>JO</u>	0.157	2.50	1	10/29/2018 23:48	<a href="#">WG188131</a>
n-Butylbenzene	U	<u>JO</u>	0.143	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
sec-Butylbenzene	U		0.134	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
tert-Butylbenzene	U		0.183	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Carbon disulfide	U		0.101	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Carbon tetrachloride	U		0.159	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chlorobenzene	U		0.140	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chlorodibromomethane	U		0.128	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chloroethane	U	<u>JO</u>	0.141	2.50	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chloroform	U		0.0860	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Chloromethane	U		0.153	1.25	1	11/05/2018 17:11	<a href="#">WG191602</a>
2-Chlorotoluene	U		0.111	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
4-Chlorotoluene	U		0.0972	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dibromo-3-Chloropropane	U	<u>JO</u>	0.325	2.50	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dibromoethane	U		0.193	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Dibromomethane	U		0.117	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Dichlorodifluoromethane	U		0.127	2.50	1	11/05/2018 17:11	<a href="#">WG191602</a>
1,1-Dichloroethane	U		0.114	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dichloroethane	U	<u>JO</u>	0.108	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,1-Dichloroethene	U		0.188	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
cis-1,2-Dichloroethene	0.486	<u>J</u>	0.0933	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,2-Dichloropropane	U		0.190	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,1-Dichloropropene	U		0.128	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
1,3-Dichloropropane	U		0.147	1.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	11/05/2018 17:11	<a href="#">WG191602</a>
2,2-Dichloropropane	U		0.0929	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Di-isopropyl ether	U		0.0924	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Ethylbenzene	U		0.158	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
2-Hexanone	U		0.757	5.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
n-Hexane	U		0.305	5.00	1	10/29/2018 23:48	<a href="#">WG188131</a>
Iodomethane	U		0.377	10.0	1	10/29/2018 23:48	<a href="#">WG188131</a>
Isopropylbenzene	U		0.126	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
p-Isopropyltoluene	U		0.138	0.500	1	10/29/2018 23:48	<a href="#">WG188131</a>
2-Butanone (MEK)	U	<u>JO</u>	1.28	5.00	1	10/29/2018 23:48	<a href="#">WG188131</a>

JC 11/12/18



Collected date/time: 10/26/18 12:15

L1038867

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Naphthalene	U	<u>JO</u>	0.174	2.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
n-Propylbenzene	U		0.162	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Styrene	U		0.117	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Tetrachloroethene	0.850		0.199	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Toluene	0.527		0.412	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,3-Trichlorobenzene	U	<u>JO</u>	0.164	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Trichloroethene	0.371	<u>J</u>	0.153	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Vinyl acetate	U		0.645	5.00	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Vinyl chloride	U		0.118	0.500	1	10/29/2018 23:48	<a href="#">WG1188131</a>
Xylenes, Total	U		0.316	1.50	1	10/29/2018 23:48	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		10/29/2018 23:48	<a href="#">WG1188131</a>
(S) Toluene-d8	103			80.0-120		11/05/2018 17:11	<a href="#">WG1191602</a>
(S) Dibromofluoromethane	92.8			75.0-120		10/29/2018 23:48	<a href="#">WG1188131</a>
(S) Dibromofluoromethane	106			75.0-120		11/05/2018 17:11	<a href="#">WG1191602</a>
(S) 4-Bromofluorobenzene	95.6			77.0-126		10/29/2018 23:48	<a href="#">WG1188131</a>
(S) 4-Bromofluorobenzene	105			77.0-126		11/05/2018 17:11	<a href="#">WG1191602</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 11/12/18



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l			ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	31.9	U	<u>B</u> <u>J</u>	31.6	100	1	11/02/2018 19:24	<a href="#">WG1190352</a>
(S) a,a,a-Trifluorotoluene(FID)	93.9				78.0-120		11/02/2018 19:24	<a href="#">WG1190352</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result		Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l			ug/l	ug/l		date / time	
Acetone	1.75	U	<u>J</u>	1.05	25.0	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Acrylonitrile	U			0.873	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Benzene	U			0.0896	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromobenzene	U			0.133	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromodichloromethane	U			0.0800	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromochloromethane	U			0.145	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromoform	U			0.186	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Bromomethane	U			0.157	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
n-Butylbenzene	U			0.143	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
sec-Butylbenzene	U			0.134	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
tert-Butylbenzene	U			0.183	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Carbon disulfide	U			0.101	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Carbon tetrachloride	U			0.159	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chlorobenzene	U			0.140	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chlorodibromomethane	U			0.128	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chloroethane	U			0.141	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chloroform	U			0.0860	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Chloromethane	U			0.153	1.25	1	10/31/2018 01:41	<a href="#">WG1188785</a>
2-Chlorotoluene	U			0.111	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
4-Chlorotoluene	U			0.0972	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dibromo-3-Chloropropane	U			0.325	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dibromoethane	U			0.193	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Dibromomethane	U			0.117	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dichlorobenzene	U			0.101	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,3-Dichlorobenzene	U			0.130	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,4-Dichlorobenzene	U			0.121	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Dichlorodifluoromethane	U			0.127	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1-Dichloroethane	U			0.114	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dichloroethane	U			0.108	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1-Dichloroethene	U			0.188	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
cis-1,2-Dichloroethene	1.44			0.0933	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
trans-1,2-Dichloroethene	U			0.152	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2-Dichloropropane	U			0.190	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1-Dichloropropene	U			0.128	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,3-Dichloropropane	U			0.147	1.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
cis-1,3-Dichloropropene	U			0.0976	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
trans-1,3-Dichloropropene	U			0.222	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
trans-1,4-Dichloro-2-butene	U			0.257	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
2,2-Dichloropropane	U			0.0929	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Di-isopropyl ether	U			0.0924	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Ethylbenzene	U			0.158	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Hexachloro-1,3-butadiene	U			0.157	1.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
2-Hexanone	U			0.757	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
n-Hexane	U			0.305	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Iodomethane	0.461	U	<u>B</u> <u>J</u>	0.377	10.0	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Isopropylbenzene	U			0.126	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
p-Isopropyltoluene	U			0.138	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
2-Butanone (MEK)	U			1.28	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Naphthalene	U		0.174	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
n-Propylbenzene	U		0.162	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Styrene	U		0.117	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Tetrachloroethene	U		0.199	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Toluene	U		0.412	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Trichloroethene	0.177	J	0.153	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Vinyl acetate	U		0.645	5.00	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Vinyl chloride	0.236	J	0.118	0.500	1	10/31/2018 01:41	<a href="#">WG1188785</a>
Xylenes, Total	U		0.316	1.50	1	10/31/2018 01:41	<a href="#">WG1188785</a>
(S) Toluene-d8	104			80.0-120		10/31/2018 01:41	<a href="#">WG1188785</a>
(S) Dibromofluoromethane	101			75.0-120		10/31/2018 01:41	<a href="#">WG1188785</a>
(S) 4-Bromofluorobenzene	103			77.0-126		10/31/2018 01:41	<a href="#">WG1188785</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	38.5	U BJ	31.6	100	1	11/02/2018 19:46	WG1190352
(S) a,a,a-Trifluorotoluene(FID)	93.7			78.0-120		11/02/2018 19:46	WG1190352

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.23	U J	1.05	25.0	1	10/31/2018 02:03	WG1188785
Acrylonitrile	U		0.873	5.00	1	10/31/2018 02:03	WG1188785
Benzene	U		0.0896	0.500	1	10/31/2018 02:03	WG1188785
Bromobenzene	U		0.133	0.500	1	10/31/2018 02:03	WG1188785
Bromodichloromethane	U		0.0800	0.500	1	10/31/2018 02:03	WG1188785
Bromochloromethane	U		0.145	0.500	1	10/31/2018 02:03	WG1188785
Bromoform	U		0.186	0.500	1	10/31/2018 02:03	WG1188785
Bromomethane	U		0.157	2.50	1	10/31/2018 02:03	WG1188785
n-Butylbenzene	U		0.143	0.500	1	10/31/2018 02:03	WG1188785
sec-Butylbenzene	U		0.134	0.500	1	10/31/2018 02:03	WG1188785
tert-Butylbenzene	U		0.183	0.500	1	10/31/2018 02:03	WG1188785
Carbon disulfide	U		0.101	0.500	1	10/31/2018 02:03	WG1188785
Carbon tetrachloride	U		0.159	0.500	1	10/31/2018 02:03	WG1188785
Chlorobenzene	U		0.140	0.500	1	10/31/2018 02:03	WG1188785
Chlorodibromomethane	U		0.128	0.500	1	10/31/2018 02:03	WG1188785
Chloroethane	U		0.141	2.50	1	10/31/2018 02:03	WG1188785
Chloroform	U		0.0860	0.500	1	10/31/2018 02:03	WG1188785
Chloromethane	U		0.153	1.25	1	10/31/2018 02:03	WG1188785
2-Chlorotoluene	U		0.111	0.500	1	10/31/2018 02:03	WG1188785
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2018 02:03	WG1188785
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2018 02:03	WG1188785
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2018 02:03	WG1188785
Dibromomethane	U		0.117	0.500	1	10/31/2018 02:03	WG1188785
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2018 02:03	WG1188785
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2018 02:03	WG1188785
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2018 02:03	WG1188785
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2018 02:03	WG1188785
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2018 02:03	WG1188785
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2018 02:03	WG1188785
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2018 02:03	WG1188785
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/31/2018 02:03	WG1188785
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2018 02:03	WG1188785
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2018 02:03	WG1188785
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2018 02:03	WG1188785
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2018 02:03	WG1188785
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2018 02:03	WG1188785
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2018 02:03	WG1188785
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/31/2018 02:03	WG1188785
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2018 02:03	WG1188785
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2018 02:03	WG1188785
Ethylbenzene	U		0.158	0.500	1	10/31/2018 02:03	WG1188785
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2018 02:03	WG1188785
2-Hexanone	U		0.757	5.00	1	10/31/2018 02:03	WG1188785
n-Hexane	U		0.305	5.00	1	10/31/2018 02:03	WG1188785
Iodomethane	0.609	U BJ	0.377	10.0	1	10/31/2018 02:03	WG1188785
Isopropylbenzene	U		0.126	0.500	1	10/31/2018 02:03	WG1188785
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2018 02:03	WG1188785
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2018 02:03	WG1188785

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Naphthalene	U		0.174	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
n-Propylbenzene	U		0.162	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Styrene	0.146	J U	0.117	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Tetrachloroethene	U		0.199	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Toluene	U		0.412	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Trichloroethene	U		0.153	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Vinyl acetate	U		0.645	5.00	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Vinyl chloride	0.169	J U	0.118	0.500	1	10/31/2018 02:03	<a href="#">WG1188785</a>
Xylenes, Total	U		0.316	1.50	1	10/31/2018 02:03	<a href="#">WG1188785</a>
(S) Toluene-d8	106			80.0-120		10/31/2018 02:03	<a href="#">WG1188785</a>
(S) Dibromofluoromethane	102			75.0-120		10/31/2018 02:03	<a href="#">WG1188785</a>
(S) 4-Bromofluorobenzene	101			77.0-126		10/31/2018 02:03	<a href="#">WG1188785</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	11/02/2018 20:09	<a href="#">WG1190352</a>
(S) a,a,a-Trifluorotoluene(FID)	94.1			78.0-120		11/02/2018 20:09	<a href="#">WG1190352</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Acetone	1.39	J	1.05	25.0	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Acrylonitrile	U		0.873	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Benzene	U		0.0896	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Bromobenzene	U		0.133	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Bromodichloromethane	U		0.0800	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Bromochloromethane	U		0.145	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Bromoform	U		0.186	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Bromomethane	U		0.157	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
n-Butylbenzene	U		0.143	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
sec-Butylbenzene	U		0.134	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
tert-Butylbenzene	U		0.183	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Carbon disulfide	U		0.101	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Carbon tetrachloride	U		0.159	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Chlorobenzene	U		0.140	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Chlorodibromomethane	U		0.128	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Chloroethane	U		0.141	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Chloroform	U		0.0860	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Chloromethane	U		0.153	1.25	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
2-Chlorotoluene	U		0.111	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
4-Chlorotoluene	U		0.0972	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,2-Dibromoethane	U		0.193	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Dibromomethane	U		0.117	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,2-Dichlorobenzene	U		0.101	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,3-Dichlorobenzene	U		0.130	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,4-Dichlorobenzene	U		0.121	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Dichlorodifluoromethane	U		0.127	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,1-Dichloroethane	U		0.114	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,2-Dichloroethane	U		0.108	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,1-Dichloroethene	U		0.188	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
cis-1,2-Dichloroethene	0.629		0.0933	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,2-Dichloropropane	U		0.190	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,1-Dichloropropene	U		0.128	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
1,3-Dichloropropane	U		0.147	1.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
2,2-Dichloropropane	U		0.0929	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Di-isopropyl ether	U		0.0924	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Ethylbenzene	U		0.158	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
2-Hexanone	U		0.757	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
n-Hexane	U		0.305	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
Iodomethane	0.659	U	<u>B</u>	0.377	10.0	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Isopropylbenzene	U		0.126	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
p-Isopropyltoluene	U		0.138	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>	
2-Butanone (MEK)	U		1.28	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>	

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Methyl tert-butyl ether	U		0.102	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Naphthalene	U		0.174	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
n-Propylbenzene	U		0.162	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Styrene	0.242	J ↓	0.117	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Tetrachloroethene	0.220	J ↓	0.199	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Toluene	U		0.412	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Trichloroethene	0.696		0.153	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Vinyl acetate	U		0.645	5.00	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Vinyl chloride	3.90		0.118	0.500	1	10/31/2018 02:24	<a href="#">WG1188785</a>
Xylenes, Total	U		0.316	1.50	1	10/31/2018 02:24	<a href="#">WG1188785</a>
(S) Toluene-d8	102			80.0-120		10/31/2018 02:24	<a href="#">WG1188785</a>
(S) Dibromofluoromethane	101			75.0-120		10/31/2018 02:24	<a href="#">WG1188785</a>
(S) 4-Bromofluorobenzene	102			77.0-126		10/31/2018 02:24	<a href="#">WG1188785</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 11/12/18



Collected date/time: 10/29/18 00:00

L1039305

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.48	J	1.05	25.0	1	10/30/2018 20:00	WG1188785
Acrylonitrile	U		0.873	5.00	1	10/30/2018 20:00	WG1188785
Benzene	U		0.0896	0.500	1	10/30/2018 20:00	WG1188785
Bromobenzene	U		0.133	0.500	1	10/30/2018 20:00	WG1188785
Bromodichloromethane	U		0.0800	0.500	1	10/30/2018 20:00	WG1188785
Bromochloromethane	U		0.145	0.500	1	10/30/2018 20:00	WG1188785
Bromoform	U		0.186	0.500	1	10/30/2018 20:00	WG1188785
Bromomethane	U		0.157	2.50	1	10/30/2018 20:00	WG1188785
n-Butylbenzene	U		0.143	0.500	1	10/30/2018 20:00	WG1188785
sec-Butylbenzene	U		0.134	0.500	1	10/30/2018 20:00	WG1188785
tert-Butylbenzene	U		0.183	0.500	1	10/30/2018 20:00	WG1188785
Carbon disulfide	U		0.101	0.500	1	10/30/2018 20:00	WG1188785
Carbon tetrachloride	U		0.159	0.500	1	10/30/2018 20:00	WG1188785
Chlorobenzene	U		0.140	0.500	1	10/30/2018 20:00	WG1188785
Chlorodibromomethane	U		0.128	0.500	1	10/30/2018 20:00	WG1188785
Chloroethane	U		0.141	2.50	1	10/30/2018 20:00	WG1188785
Chloroform	U		0.0860	0.500	1	10/30/2018 20:00	WG1188785
Chloromethane	U		0.153	1.25	1	10/30/2018 20:00	WG1188785
2-Chlorotoluene	U		0.111	0.500	1	10/30/2018 20:00	WG1188785
4-Chlorotoluene	U		0.0972	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	10/30/2018 20:00	WG1188785
1,2-Dibromoethane	U		0.193	0.500	1	10/30/2018 20:00	WG1188785
Dibromomethane	U		0.117	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichlorobenzene	U		0.101	0.500	1	10/30/2018 20:00	WG1188785
1,3-Dichlorobenzene	U		0.130	0.500	1	10/30/2018 20:00	WG1188785
1,4-Dichlorobenzene	U		0.121	0.500	1	10/30/2018 20:00	WG1188785
Dichlorodifluoromethane	U		0.127	2.50	1	10/30/2018 20:00	WG1188785
1,1-Dichloroethane	U		0.114	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichloroethane	U		0.108	0.500	1	10/30/2018 20:00	WG1188785
1,1-Dichloroethene	U		0.188	0.500	1	10/30/2018 20:00	WG1188785
cis-1,2-Dichloroethene	U		0.0933	0.500	1	10/30/2018 20:00	WG1188785
trans-1,2-Dichloroethene	U		0.152	0.500	1	10/30/2018 20:00	WG1188785
1,2-Dichloropropane	U		0.190	0.500	1	10/30/2018 20:00	WG1188785
1,1-Dichloropropene	U		0.128	0.500	1	10/30/2018 20:00	WG1188785
1,3-Dichloropropane	U		0.147	1.00	1	10/30/2018 20:00	WG1188785
cis-1,3-Dichloropropene	U		0.0976	0.500	1	10/30/2018 20:00	WG1188785
trans-1,3-Dichloropropene	U		0.222	0.500	1	10/30/2018 20:00	WG1188785
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	10/30/2018 20:00	WG1188785
2,2-Dichloropropane	U		0.0929	0.500	1	10/30/2018 20:00	WG1188785
Di-isopropyl ether	U		0.0924	0.500	1	10/30/2018 20:00	WG1188785
Ethylbenzene	U		0.158	0.500	1	10/30/2018 20:00	WG1188785
Hexachloro-1,3-butadiene	U		0.157	1.00	1	10/30/2018 20:00	WG1188785
2-Hexanone	U		0.757	5.00	1	10/30/2018 20:00	WG1188785
n-Hexane	U		0.305	5.00	1	10/30/2018 20:00	WG1188785
Iodomethane	0.869	BJ	0.377	10.0	1	10/30/2018 20:00	WG1188785
Isopropylbenzene	U		0.126	0.500	1	10/30/2018 20:00	WG1188785
p-Isopropyltoluene	U		0.138	0.500	1	10/30/2018 20:00	WG1188785
2-Butanone (MEK)	U		1.28	5.00	1	10/30/2018 20:00	WG1188785
Methylene Chloride	U		1.07	2.50	1	10/30/2018 20:00	WG1188785
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	10/30/2018 20:00	WG1188785
Methyl tert-butyl ether	U		0.102	0.500	1	10/30/2018 20:00	WG1188785
Naphthalene	U		0.174	2.50	1	10/30/2018 20:00	WG1188785
n-Propylbenzene	U		0.162	0.500	1	10/30/2018 20:00	WG1188785
Styrene	U		0.117	0.500	1	10/30/2018 20:00	WG1188785
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	10/30/2018 20:00	WG1188785
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	10/30/2018 20:00	WG1188785

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 11/12/18



Collected date/time: 10/29/18 00:00

L1039305

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Tetrachloroethene	U		0.199	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Toluene	U		0.412	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Trichloroethene	U		0.153	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Trichlorofluoromethane	U		0.130	2.50	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Vinyl acetate	U		0.645	5.00	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Vinyl chloride	U		0.118	0.500	1	10/30/2018 20:00	<a href="#">WG1188785</a>
Xylenes, Total	U		0.316	1.50	1	10/30/2018 20:00	<a href="#">WG1188785</a>
(S) Toluene-d8	104			80.0-120		10/30/2018 20:00	<a href="#">WG1188785</a>
(S) Dibromofluoromethane	102			75.0-120		10/30/2018 20:00	<a href="#">WG1188785</a>
(S) 4-Bromofluorobenzene	101			77.0-126		10/30/2018 20:00	<a href="#">WG1188785</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 11/12/18



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	260000		2710	20000	1	12/18/2018 23:25	<a href="#">WG1212038</a>

Sample Narrative:

L1053029-08 WG1212038: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	40400		51.9	1000	1	12/14/2018 19:53	<a href="#">WG1210790</a>
Nitrate	U		22.7	100	1	12/14/2018 19:53	<a href="#">WG1210790</a>
Sulfate	7210		77.4	5000	1	12/14/2018 19:53	<a href="#">WG1210790</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3440		102	1000	1	12/28/2018 21:30	<a href="#">WG1216768</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	544	J+ B	15.0	100	1	12/18/2018 11:14	<a href="#">WG1211333</a>
Manganese	278		0.250	5.00	1	12/18/2018 11:14	<a href="#">WG1211333</a>

JC 1/20/19

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 19:34	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		12/15/2018 19:34	<a href="#">WG1211498</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	89.7		0.287	0.678	1	12/18/2018 09:41	<a href="#">WG1212060</a>
Ethane	0.925	J	0.296	1.29	1	12/18/2018 09:41	<a href="#">WG1212060</a>
Ethene	41.0		0.422	1.27	1	12/18/2018 09:41	<a href="#">WG1212060</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		5.25	125	5	12/18/2018 03:50	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 14:55	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 14:55	<a href="#">WG1211567</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 12/13/18 11:45

L1053029

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	12/16/2018 14:55	WG1211567
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 14:55	WG1211567
Chloroethane	U		0.141	2.50	1	12/16/2018 14:55	WG1211567
Chloroform	U		0.0860	0.500	1	12/16/2018 14:55	WG1211567
Chloromethane	U		0.153	1.25	1	12/16/2018 14:55	WG1211567
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 14:55	WG1211567
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 14:55	WG1211567
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 14:55	WG1211567
Dibromomethane	U		0.117	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 14:55	WG1211567
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 14:55	WG1211567
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 14:55	WG1211567
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 14:55	WG1211567
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 14:55	WG1211567
1,1-Dichloroethene	0.450	U	0.188	0.500	1	12/16/2018 14:55	WG1211567
cis-1,2-Dichloroethene	39.8		0.466	2.50	5	12/18/2018 03:50	WG1212222
trans-1,2-Dichloroethene	0.497	U	0.152	0.500	1	12/16/2018 14:55	WG1211567
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 14:55	WG1211567
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 14:55	WG1211567
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 14:55	WG1211567
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 14:55	WG1211567
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 14:55	WG1211567
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 14:55	WG1211567
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 14:55	WG1211567
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 14:55	WG1211567
Ethylbenzene	U		0.158	0.500	1	12/16/2018 14:55	WG1211567
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 14:55	WG1211567
2-Hexanone	U		0.757	5.00	1	12/16/2018 14:55	WG1211567
n-Hexane	U		0.305	5.00	1	12/16/2018 14:55	WG1211567
Iodomethane	U		0.377	10.0	1	12/16/2018 14:55	WG1211567
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 14:55	WG1211567
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 14:55	WG1211567
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 14:55	WG1211567
Methylene Chloride	U		1.07	2.50	1	12/16/2018 14:55	WG1211567
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 14:55	WG1211567
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 14:55	WG1211567
Naphthalene	U		0.174	2.50	1	12/16/2018 14:55	WG1211567
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 14:55	WG1211567
Styrene	U		0.117	0.500	1	12/16/2018 14:55	WG1211567
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 14:55	WG1211567
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 14:55	WG1211567
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 14:55	WG1211567
Tetrachloroethene	U		0.995	2.50	5	12/18/2018 03:50	WG1212222
Toluene	U		0.412	0.500	1	12/16/2018 14:55	WG1211567
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 14:55	WG1211567
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 14:55	WG1211567
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 14:55	WG1211567
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 14:55	WG1211567
Trichloroethene	U		0.765	2.50	5	12/18/2018 03:50	WG1212222
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 14:55	WG1211567
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 14:55	WG1211567
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 14:55	WG1211567
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 14:55	WG1211567
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 14:55	WG1211567

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 1/20/19





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	12/16/2018 14:55	<a href="#">WG1211567</a>
Vinyl chloride	199		0.590	2.50	5	12/18/2018 03:50	<a href="#">WG1212222</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 14:55	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/16/2018 14:55	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/18/2018 03:50	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	109			75.0-120		12/16/2018 14:55	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	89.7			75.0-120		12/18/2018 03:50	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	92.0			77.0-126		12/16/2018 14:55	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	95.7			77.0-126		12/18/2018 03:50	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1053029-08 WG1212222, WG1211567: Cannot be reanalyzed at a lower dilution due to high levels of target analytes.

L1053029-08 WG1212222, WG1211567: Not all compounds reportable at lower dilution.

JC 1/20/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 22:04	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	107			78.0-120		12/15/2018 22:04	<a href="#">WG1211498</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.76	U	1.05	25.0	1	12/18/2018 02:33	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Chloromethane	0.233		0.153	1.25	1	12/16/2018 18:03	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1-Dichloroethene	1.67		0.188	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	7.88		0.0933	0.500	1	12/18/2018 02:33	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	0.454		0.152	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Naphthalene	0.251	J	0.174	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Tetrachloroethene	1.71		0.199	0.500	1	12/18/2018 02:33	<a href="#">WG1212222</a>
Toluene	U		0.412	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Trichloroethene	2.75		0.153	0.500	1	12/18/2018 02:33	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Vinyl chloride	5.95		0.118	0.500	1	12/16/2018 18:03	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 18:03	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/16/2018 18:03	<a href="#">WG1211567</a>
(S) Toluene-d8	106			80.0-120		12/18/2018 02:33	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	96.1			75.0-120		12/16/2018 18:03	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	87.9			75.0-120		12/18/2018 02:33	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	88.5			77.0-126		12/16/2018 18:03	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		12/18/2018 02:33	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/15/2018 22:25	<a href="#">WG1211498</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		12/15/2018 22:25	<a href="#">WG1211498</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	1.11	U J	1.05	25.0	1	12/18/2018 02:52	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 18:22	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	1.46		0.0933	0.500	1	12/18/2018 02:52	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 02:52	<a href="#">WG1212222</a>
Toluene	U		0.412	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Trichloroethene	U		0.153	0.500	1	12/18/2018 02:52	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Vinyl chloride	0.520		0.118	0.500	1	12/16/2018 18:22	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 18:22	<a href="#">WG1211567</a>
(S) Toluene-d8	104			80.0-120		12/16/2018 18:22	<a href="#">WG1211567</a>
(S) Toluene-d8	108			80.0-120		12/18/2018 02:52	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	107			75.0-120		12/16/2018 18:22	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	91.6			75.0-120		12/18/2018 02:52	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	87.8			77.0-126		12/16/2018 18:22	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	96.1			77.0-126		12/18/2018 02:52	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 1/21/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U	UJ	158	500	5	12/17/2018 09:23	<a href="#">WG1211718</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		12/17/2018 09:23	<a href="#">WG1211718</a>

Sample Narrative:

L1053394-03 WG1211718: Lowest possible dilution doe to sample foaming.

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.12	J	1.05	25.0	1	12/18/2018 01:54	<a href="#">WG1212222</a>
Acrylonitrile	U		0.873	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Benzene	U		0.0896	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromobenzene	U		0.133	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromochloromethane	U		0.145	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromoform	U		0.186	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Bromomethane	U		0.157	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
sec-Butylbenzene	U		0.134	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Carbon disulfide	U		0.101	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chlorobenzene	U		0.140	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chloroethane	U		0.141	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chloroform	U		0.0860	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Chloromethane	U		0.153	1.25	1	12/16/2018 17:26	<a href="#">WG1211567</a>
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Dibromomethane	U		0.117	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
cis-1,2-Dichloroethene	1.80		0.0933	0.500	1	12/18/2018 01:54	<a href="#">WG1212222</a>
trans-1,2-Dichloroethene	0.463	J	0.152	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Ethylbenzene	U		0.158	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
2-Hexanone	U		0.757	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
n-Hexane	U		0.305	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Iodomethane	U		0.377	10.0	1	12/16/2018 17:26	<a href="#">WG1211567</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Methylene Chloride	U		1.07	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Naphthalene	U		0.174	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Styrene	U		0.117	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 01:54	<a href="#">WG1212222</a>
Toluene	1.05		0.412	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Trichloroethene	U		0.153	0.500	1	12/18/2018 01:54	<a href="#">WG1212222</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Vinyl chloride	2.30		0.118	0.500	1	12/16/2018 17:26	<a href="#">WG1211567</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 17:26	<a href="#">WG1211567</a>
(S) Toluene-d8	106			80.0-120		12/16/2018 17:26	<a href="#">WG1211567</a>
(S) Toluene-d8	107			80.0-120		12/18/2018 01:54	<a href="#">WG1212222</a>
(S) Dibromofluoromethane	106			75.0-120		12/16/2018 17:26	<a href="#">WG1211567</a>
(S) Dibromofluoromethane	89.4			75.0-120		12/18/2018 01:54	<a href="#">WG1212222</a>
(S) 4-Bromofluorobenzene	88.5			77.0-126		12/16/2018 17:26	<a href="#">WG1211567</a>
(S) 4-Bromofluorobenzene	98.3			77.0-126		12/18/2018 01:54	<a href="#">WG1212222</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 1/21/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	618000		2710	20000	1	12/21/2018 12:16	<a href="#">WG1213167</a>

Sample Narrative:

L1053462-01 WG1213167: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	32200		51.9	1000	1	12/15/2018 15:09	<a href="#">WG1211292</a>
Nitrate	U		22.7	100	1	12/15/2018 15:09	<a href="#">WG1211292</a>
Sulfate	702000		774	50000	10	12/15/2018 15:19	<a href="#">WG1211292</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	335000		1020	10000	10	12/31/2018 16:36	<a href="#">WG1217442</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	138000		75.0	500	5	12/19/2018 15:53	<a href="#">WG1212648</a>
Manganese	11800		1.25	25.0	5	12/19/2018 15:53	<a href="#">WG1212648</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1040		31.6	100	1	12/18/2018 23:24	<a href="#">WG1212191</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		12/18/2018 23:24	<a href="#">WG1212191</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	18900		2.87	6.78	10	12/19/2018 15:04	<a href="#">WG1212739</a>
Ethane	68.4		0.296	1.29	1	12/19/2018 14:54	<a href="#">WG1212739</a>
Ethene	101		0.422	1.27	1	12/19/2018 14:54	<a href="#">WG1212739</a>

JC 1/21/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	299000		2710	20000	1	12/21/2018 12:25	<a href="#">WG1213167</a>

Sample Narrative:

L1053462-02 WG1213167: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	181000		260	5000	5	12/15/2018 15:41	<a href="#">WG1211292</a>
Nitrate	U		22.7	100	1	12/15/2018 15:30	<a href="#">WG1211292</a>
Sulfate	31600		77.4	5000	1	12/15/2018 15:30	<a href="#">WG1211292</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	16900		102	1000	1	12/29/2018 07:36	<a href="#">WG1216816</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3820		15.0	100	1	12/19/2018 15:02	<a href="#">WG1212648</a>
Manganese	1460	V	0.250	5.00	1	12/19/2018 15:02	<a href="#">WG1212648</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	47300		316	1000	10	12/18/2018 23:45	<a href="#">WG1212191</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		12/18/2018 23:45	<a href="#">WG1212191</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	3710		0.287	0.678	1	12/19/2018 14:56	<a href="#">WG1212739</a>
Ethane	32.2		0.296	1.29	1	12/19/2018 14:56	<a href="#">WG1212739</a>
Ethene	2050		0.422	1.27	1	12/19/2018 14:56	<a href="#">WG1212739</a>

JC 1/21/19

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	16.6	J	1.05	25.0	1	12/16/2018 17:52	WG1211777
Acrylonitrile	U		0.873	5.00	1	12/16/2018 17:52	WG1211777
Benzene	0.342	J	0.0896	0.500	1	12/16/2018 17:52	WG1211777
Bromobenzene	U	J4	0.133	0.500	1	12/16/2018 17:52	WG1211777
Bromodichloromethane	U		0.0800	0.500	1	12/16/2018 17:52	WG1211777
Bromochloromethane	U		0.145	0.500	1	12/16/2018 17:52	WG1211777
Bromoform	U		0.186	0.500	1	12/16/2018 17:52	WG1211777
Bromomethane	U		0.157	2.50	1	12/16/2018 17:52	WG1211777
n-Butylbenzene	U		0.143	0.500	1	12/16/2018 17:52	WG1211777
sec-Butylbenzene	U	J3	0.134	0.500	1	12/16/2018 17:52	WG1211777
tert-Butylbenzene	U		0.183	0.500	1	12/16/2018 17:52	WG1211777
Carbon disulfide	4.43		0.101	0.500	1	12/16/2018 17:52	WG1211777
Carbon tetrachloride	U		0.159	0.500	1	12/16/2018 17:52	WG1211777
Chlorobenzene	U		0.140	0.500	1	12/16/2018 17:52	WG1211777
Chlorodibromomethane	U		0.128	0.500	1	12/16/2018 17:52	WG1211777
Chloroethane	2.63		0.141	2.50	1	12/16/2018 17:52	WG1211777
Chloroform	0.285	J	0.0860	0.500	1	12/16/2018 17:52	WG1211777
Chloromethane	U		0.153	1.25	1	12/16/2018 17:52	WG1211777
2-Chlorotoluene	U		0.111	0.500	1	12/16/2018 17:52	WG1211777
4-Chlorotoluene	U	J4	0.0972	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/16/2018 17:52	WG1211777
1,2-Dibromoethane	U		0.193	0.500	1	12/16/2018 17:52	WG1211777
Dibromomethane	U		0.117	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichlorobenzene	U		0.101	0.500	1	12/16/2018 17:52	WG1211777
1,3-Dichlorobenzene	U		0.130	0.500	1	12/16/2018 17:52	WG1211777
1,4-Dichlorobenzene	U		0.121	0.500	1	12/16/2018 17:52	WG1211777
Dichlorodifluoromethane	U		0.127	2.50	1	12/16/2018 17:52	WG1211777
1,1-Dichloroethane	U		0.114	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichloroethane	U		0.108	0.500	1	12/16/2018 17:52	WG1211777
1,1-Dichloroethene	7.05		0.188	0.500	1	12/16/2018 17:52	WG1211777
cis-1,2-Dichloroethene	1690		4.66	25.0	50	12/17/2018 23:32	WG1212243
trans-1,2-Dichloroethene	4.56		0.152	0.500	1	12/16/2018 17:52	WG1211777
1,2-Dichloropropane	U		0.190	0.500	1	12/16/2018 17:52	WG1211777
1,1-Dichloropropene	U		0.128	0.500	1	12/16/2018 17:52	WG1211777
1,3-Dichloropropane	U		0.147	1.00	1	12/16/2018 17:52	WG1211777
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/16/2018 17:52	WG1211777
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/16/2018 17:52	WG1211777
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/16/2018 17:52	WG1211777
2,2-Dichloropropane	U		0.0929	0.500	1	12/16/2018 17:52	WG1211777
Di-isopropyl ether	U		0.0924	0.500	1	12/16/2018 17:52	WG1211777
Ethylbenzene	U		0.158	0.500	1	12/16/2018 17:52	WG1211777
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/16/2018 17:52	WG1211777
2-Hexanone	U		0.757	5.00	1	12/16/2018 17:52	WG1211777
n-Hexane	U		0.305	5.00	1	12/16/2018 17:52	WG1211777
Iodomethane	U		0.377	10.0	1	12/16/2018 17:52	WG1211777
Isopropylbenzene	U		0.126	0.500	1	12/16/2018 17:52	WG1211777
p-Isopropyltoluene	U		0.138	0.500	1	12/16/2018 17:52	WG1211777
2-Butanone (MEK)	4.26	J	1.28	5.00	1	12/16/2018 17:52	WG1211777
Methylene Chloride	U		1.07	2.50	1	12/16/2018 17:52	WG1211777
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/16/2018 17:52	WG1211777
Methyl tert-butyl ether	U		0.102	0.500	1	12/16/2018 17:52	WG1211777
Naphthalene	U		0.174	2.50	1	12/16/2018 17:52	WG1211777
n-Propylbenzene	U		0.162	0.500	1	12/16/2018 17:52	WG1211777
Styrene	U		0.117	0.500	1	12/16/2018 17:52	WG1211777
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/16/2018 17:52	WG1211777
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/16/2018 17:52	WG1211777

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
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- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 1/21/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Tetrachloroethene	1460		9.95	25.0	50	12/17/2018 23:32	<a href="#">WG1212243</a>
Toluene	0.440	J	0.412	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Trichloroethene	155		0.153	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Vinyl acetate	U		0.645	5.00	1	12/16/2018 17:52	<a href="#">WG1211777</a>
Vinyl chloride	530		5.90	25.0	50	12/17/2018 23:32	<a href="#">WG1212243</a>
Xylenes, Total	U		0.316	1.50	1	12/16/2018 17:52	<a href="#">WG1211777</a>
(S) Toluene-d8	92.1			80.0-120		12/16/2018 17:52	<a href="#">WG1211777</a>
(S) Toluene-d8	108			80.0-120		12/17/2018 23:32	<a href="#">WG1212243</a>
(S) Dibromofluoromethane	97.2			75.0-120		12/16/2018 17:52	<a href="#">WG1211777</a>
(S) Dibromofluoromethane	107			75.0-120		12/17/2018 23:32	<a href="#">WG1212243</a>
(S) 4-Bromofluorobenzene	125			77.0-126		12/16/2018 17:52	<a href="#">WG1211777</a>
(S) 4-Bromofluorobenzene	94.2			77.0-126		12/17/2018 23:32	<a href="#">WG1212243</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 1/21/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l	ug/l			
Acetone	U		26.2	625	25	12/16/2018 18:11	WG1211777
Acrylonitrile	U		21.8	125	25	12/16/2018 18:11	WG1211777
Benzene	U		2.24	12.5	25	12/16/2018 18:11	WG1211777
Bromobenzene	U	J4	3.32	12.5	25	12/16/2018 18:11	WG1211777
Bromodichloromethane	U		2.00	12.5	25	12/16/2018 18:11	WG1211777
Bromochloromethane	U		3.62	12.5	25	12/16/2018 18:11	WG1211777
Bromoform	U		4.65	12.5	25	12/16/2018 18:11	WG1211777
Bromomethane	U		3.92	62.5	25	12/16/2018 18:11	WG1211777
n-Butylbenzene	U		3.58	12.5	25	12/16/2018 18:11	WG1211777
sec-Butylbenzene	U	J3	3.35	12.5	25	12/16/2018 18:11	WG1211777
tert-Butylbenzene	U		4.58	12.5	25	12/16/2018 18:11	WG1211777
Carbon disulfide	13.7	J+	2.52	12.5	25	12/16/2018 18:11	WG1211777
Carbon tetrachloride	U		3.98	12.5	25	12/16/2018 18:11	WG1211777
Chlorobenzene	U		3.50	12.5	25	12/16/2018 18:11	WG1211777
Chlorodibromomethane	U		3.20	12.5	25	12/16/2018 18:11	WG1211777
Chloroethane	U		3.52	62.5	25	12/16/2018 18:11	WG1211777
Chloroform	U		2.15	12.5	25	12/16/2018 18:11	WG1211777
Chloromethane	U		3.82	31.3	25	12/16/2018 18:11	WG1211777
2-Chlorotoluene	U		2.78	12.5	25	12/16/2018 18:11	WG1211777
4-Chlorotoluene	U	J4	2.43	12.5	25	12/16/2018 18:11	WG1211777
1,2-Dibromo-3-Chloropropane	U		8.12	62.5	25	12/16/2018 18:11	WG1211777
1,2-Dibromoethane	U		4.82	12.5	25	12/16/2018 18:11	WG1211777
Dibromomethane	U		2.92	12.5	25	12/16/2018 18:11	WG1211777
1,2-Dichlorobenzene	U		2.52	12.5	25	12/16/2018 18:11	WG1211777
1,3-Dichlorobenzene	U		3.25	12.5	25	12/16/2018 18:11	WG1211777
1,4-Dichlorobenzene	U		3.02	12.5	25	12/16/2018 18:11	WG1211777
Dichlorodifluoromethane	U		3.18	62.5	25	12/16/2018 18:11	WG1211777
1,1-Dichloroethane	U		2.85	12.5	25	12/16/2018 18:11	WG1211777
1,2-Dichloroethane	U		2.70	12.5	25	12/16/2018 18:11	WG1211777
1,1-Dichloroethene	108	J+	4.70	12.5	25	12/16/2018 18:11	WG1211777
cis-1,2-Dichloroethene	77100	J+	187	1000	2000	12/17/2018 23:53	WG1212243
trans-1,2-Dichloroethene	134	J+	3.80	12.5	25	12/16/2018 18:11	WG1211777
1,2-Dichloropropane	U		4.75	12.5	25	12/16/2018 18:11	WG1211777
1,1-Dichloropropene	U		3.20	12.5	25	12/16/2018 18:11	WG1211777
1,3-Dichloropropane	U		3.68	25.0	25	12/16/2018 18:11	WG1211777
cis-1,3-Dichloropropene	U		2.44	12.5	25	12/16/2018 18:11	WG1211777
trans-1,3-Dichloropropene	U		5.55	12.5	25	12/16/2018 18:11	WG1211777
trans-1,4-Dichloro-2-butene	U		6.42	125	25	12/16/2018 18:11	WG1211777
2,2-Dichloropropane	U		2.32	12.5	25	12/16/2018 18:11	WG1211777
Di-isopropyl ether	U		2.31	12.5	25	12/16/2018 18:11	WG1211777
Ethylbenzene	U		3.95	12.5	25	12/16/2018 18:11	WG1211777
Hexachloro-1,3-butadiene	U		3.92	25.0	25	12/16/2018 18:11	WG1211777
2-Hexanone	U		18.9	125	25	12/16/2018 18:11	WG1211777
n-Hexane	U		7.62	125	25	12/16/2018 18:11	WG1211777
Iodomethane	U		9.42	250	25	12/16/2018 18:11	WG1211777
Isopropylbenzene	U		3.15	12.5	25	12/16/2018 18:11	WG1211777
p-Isopropyltoluene	U		3.45	12.5	25	12/16/2018 18:11	WG1211777
2-Butanone (MEK)	U		32.0	125	25	12/16/2018 18:11	WG1211777
Methylene Chloride	U		26.8	62.5	25	12/16/2018 18:11	WG1211777
4-Methyl-2-pentanone (MIBK)	U		20.6	125	25	12/16/2018 18:11	WG1211777
Methyl tert-butyl ether	U		2.55	12.5	25	12/16/2018 18:11	WG1211777
Naphthalene	U		4.35	62.5	25	12/16/2018 18:11	WG1211777
n-Propylbenzene	U		4.05	12.5	25	12/16/2018 18:11	WG1211777
Styrene	U		2.92	12.5	25	12/16/2018 18:11	WG1211777
1,1,1,2-Tetrachloroethane	U		3.00	12.5	25	12/16/2018 18:11	WG1211777
1,1,2,2-Tetrachloroethane	U		3.25	12.5	25	12/16/2018 18:11	WG1211777

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 1/21/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		4.10	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Tetrachloroethene	23600	J+	398	1000	2000	12/17/2018 23:53	<a href="#">WG1212243</a>
Toluene	U		10.3	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,3-Trichlorobenzene	U	UJ JO	4.10	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,4-Trichlorobenzene	U		8.88	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1,1-Trichloroethane	U		2.35	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,1,2-Trichloroethane	U		4.65	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Trichloroethene	6870	J+	306	1000	2000	12/17/2018 23:53	<a href="#">WG1212243</a>
Trichlorofluoromethane	U		3.25	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,3-Trichloropropane	U		6.18	62.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,4-Trimethylbenzene	3.49	U BJ	3.08	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,2,3-Trimethylbenzene	U		1.85	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
1,3,5-Trimethylbenzene	U		3.10	12.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Vinyl acetate	U		16.1	125	25	12/16/2018 18:11	<a href="#">WG1211777</a>
Vinyl chloride	7830	J+	236	1000	2000	12/17/2018 23:53	<a href="#">WG1212243</a>
Xylenes, Total	U		7.90	37.5	25	12/16/2018 18:11	<a href="#">WG1211777</a>
(S) Toluene-d8	97.7			80.0-120		12/16/2018 18:11	<a href="#">WG1211777</a>
(S) Toluene-d8	107			80.0-120		12/17/2018 23:53	<a href="#">WG1212243</a>
(S) Dibromofluoromethane	103			75.0-120		12/16/2018 18:11	<a href="#">WG1211777</a>
(S) Dibromofluoromethane	106			75.0-120		12/17/2018 23:53	<a href="#">WG1212243</a>
(S) 4-Bromofluorobenzene	137	J1		77.0-126		12/16/2018 18:11	<a href="#">WG1211777</a>
(S) 4-Bromofluorobenzene	93.1			77.0-126		12/17/2018 23:53	<a href="#">WG1212243</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1053462-04 WG1211777: Diluted due to high levels of target analytes.

JC 1/21/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Acrylonitrile	U		0.873	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Benzene	U		0.0896	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromobenzene	U		0.133	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromodichloromethane	U		0.0800	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromochloromethane	U		0.145	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromoform	U		0.186	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Bromomethane	U		0.157	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
n-Butylbenzene	U		0.143	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
sec-Butylbenzene	U		0.134	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
tert-Butylbenzene	U		0.183	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Carbon disulfide	U		0.101	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Carbon tetrachloride	U		0.159	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chlorobenzene	U		0.140	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chlorodibromomethane	U		0.128	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chloroethane	U		0.141	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chloroform	U		0.0860	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Chloromethane	U		0.153	1.25	1	12/18/2018 15:16	<a href="#">WG1212450</a>
2-Chlorotoluene	U		0.111	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Dibromomethane	U		0.117	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Dichlorodifluoromethane	U	UJ JO	0.127	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
2,2-Dichloropropane	U	UJ JO	0.0929	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Ethylbenzene	U		0.158	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
2-Hexanone	U		0.757	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
n-Hexane	U		0.305	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Iodomethane	U		0.377	10.0	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Isopropylbenzene	U		0.126	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Methylene Chloride	U		1.07	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a> JC 1/21/19
Methyl tert-butyl ether	U		0.102	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Naphthalene	U		0.174	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
n-Propylbenzene	U		0.162	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Styrene	U		0.117	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 12/14/18 00:00

L1053462

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Tetrachloroethene	U		0.199	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Toluene	U		0.412	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Trichloroethene	U		0.153	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Trichlorofluoromethane	U	UJ JO	0.130	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Vinyl acetate	U		0.645	5.00	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Vinyl chloride	U		0.118	0.500	1	12/18/2018 15:16	<a href="#">WG1212450</a>
Xylenes, Total	U		0.316	1.50	1	12/18/2018 15:16	<a href="#">WG1212450</a>
(S) Toluene-d8	107			80.0-120		12/18/2018 15:16	<a href="#">WG1212450</a>
(S) Dibromofluoromethane	88.5			75.0-120		12/18/2018 15:16	<a href="#">WG1212450</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		12/18/2018 15:16	<a href="#">WG1212450</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 1/21/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	41600		2710	20000	1	01/03/2019 15:25	<a href="#">WG1218198</a>

Sample Narrative:

L1055718-01 WG1218198: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	9720		51.9	1000	1	12/22/2018 16:08	<a href="#">WG1214970</a>
Nitrate	68.3	J J	22.7	100	1	12/22/2018 16:08	<a href="#">WG1214970</a>
Sulfate	342	J J	77.4	5000	1	12/22/2018 16:08	<a href="#">WG1214970</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	5510		102	1000	1	01/05/2019 08:17	<a href="#">WG1218534</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	22600		15.0	100	1	12/27/2018 14:53	<a href="#">WG1215758</a>
Manganese	573		0.250	5.00	1	12/27/2018 14:53	<a href="#">WG1215758</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	12/24/2018 16:39	<a href="#">WG1215499</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		12/24/2018 16:39	<a href="#">WG1215499</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	373		0.287	0.678	1	12/28/2018 09:04	<a href="#">WG1216205</a>
Ethane	U		0.296	1.29	1	12/28/2018 09:04	<a href="#">WG1216205</a>
Ethene	U		0.422	1.27	1	12/28/2018 09:04	<a href="#">WG1216205</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.50	J J	1.05	25.0	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Acrylonitrile	U		0.873	5.00	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Benzene	U		0.0896	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromobenzene	U		0.133	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromodichloromethane	U		0.0800	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromochloromethane	U		0.145	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromoform	U		0.186	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Bromomethane	U		0.157	2.50	1	12/26/2018 13:46	<a href="#">WG1215942</a>
n-Butylbenzene	U		0.143	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
sec-Butylbenzene	U		0.134	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
tert-Butylbenzene	U		0.183	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Carbon disulfide	U		0.101	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Carbon tetrachloride	U		0.159	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	12/26/2018 13:46	WG1215942
Chlorodibromomethane	U		0.128	0.500	1	12/26/2018 13:46	WG1215942
Chloroethane	U		0.141	2.50	1	12/26/2018 13:46	WG1215942
Chloroform	U		0.0860	0.500	1	12/26/2018 13:46	WG1215942
Chloromethane	U		0.153	1.25	1	12/26/2018 13:46	WG1215942
2-Chlorotoluene	U		0.111	0.500	1	12/26/2018 13:46	WG1215942
4-Chlorotoluene	U		0.0972	0.500	1	12/26/2018 13:46	WG1215942
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/26/2018 13:46	WG1215942
1,2-Dibromoethane	U		0.193	0.500	1	12/26/2018 13:46	WG1215942
Dibromomethane	U		0.117	0.500	1	12/26/2018 13:46	WG1215942
1,2-Dichlorobenzene	U		0.101	0.500	1	12/26/2018 13:46	WG1215942
1,3-Dichlorobenzene	U		0.130	0.500	1	12/26/2018 13:46	WG1215942
1,4-Dichlorobenzene	U		0.121	0.500	1	12/26/2018 13:46	WG1215942
Dichlorodifluoromethane	U		0.127	2.50	1	12/26/2018 13:46	WG1215942
1,1-Dichloroethane	U		0.114	0.500	1	12/26/2018 13:46	WG1215942
1,2-Dichloroethane	U		0.108	0.500	1	12/26/2018 13:46	WG1215942
1,1-Dichloroethene	U		0.188	0.500	1	12/26/2018 13:46	WG1215942
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/26/2018 13:46	WG1215942
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/26/2018 13:46	WG1215942
1,2-Dichloropropane	U		0.190	0.500	1	12/26/2018 13:46	WG1215942
1,1-Dichloropropene	U		0.128	0.500	1	12/26/2018 13:46	WG1215942
1,3-Dichloropropane	U		0.147	1.00	1	12/26/2018 13:46	WG1215942
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/26/2018 13:46	WG1215942
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/26/2018 13:46	WG1215942
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/26/2018 13:46	WG1215942
2,2-Dichloropropane	U		0.0929	0.500	1	12/26/2018 13:46	WG1215942
Di-isopropyl ether	U		0.0924	0.500	1	12/26/2018 13:46	WG1215942
Ethylbenzene	U		0.158	0.500	1	12/26/2018 13:46	WG1215942
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/26/2018 13:46	WG1215942
2-Hexanone	U		0.757	5.00	1	12/26/2018 13:46	WG1215942
n-Hexane	U		0.305	5.00	1	12/26/2018 13:46	WG1215942
Iodomethane	U		0.377	10.0	1	12/26/2018 13:46	WG1215942
Isopropylbenzene	U		0.126	0.500	1	12/26/2018 13:46	WG1215942
p-Isopropyltoluene	U		0.138	0.500	1	12/26/2018 13:46	WG1215942
2-Butanone (MEK)	U		1.28	5.00	1	12/26/2018 13:46	WG1215942
Methylene Chloride	U		1.07	2.50	1	12/26/2018 13:46	WG1215942
4-Methyl-2-pentanone (MIBK)	1.06	J U	0.823	5.00	1	12/26/2018 13:46	WG1215942
Methyl tert-butyl ether	U		0.102	0.500	1	12/26/2018 13:46	WG1215942
Naphthalene	U		0.174	2.50	1	12/26/2018 13:46	WG1215942
n-Propylbenzene	U		0.162	0.500	1	12/26/2018 13:46	WG1215942
Styrene	U		0.117	0.500	1	12/26/2018 13:46	WG1215942
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/26/2018 13:46	WG1215942
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/26/2018 13:46	WG1215942
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/26/2018 13:46	WG1215942
Tetrachloroethene	U		0.199	0.500	1	12/26/2018 13:46	WG1215942
Toluene	U		0.412	0.500	1	12/26/2018 13:46	WG1215942
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/26/2018 13:46	WG1215942
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/26/2018 13:46	WG1215942
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/26/2018 13:46	WG1215942
1,1,2-Trichloroethane	U		0.186	0.500	1	12/26/2018 13:46	WG1215942
Trichloroethene	U		0.153	0.500	1	12/26/2018 13:46	WG1215942
Trichlorofluoromethane	U		0.130	2.50	1	12/26/2018 13:46	WG1215942
1,2,3-Trichloropropane	U		0.247	2.50	1	12/26/2018 13:46	WG1215942
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/26/2018 13:46	WG1215942
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/26/2018 13:46	WG1215942
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/26/2018 13:46	WG1215942

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Vinyl chloride	U		0.118	0.500	1	12/26/2018 13:46	<a href="#">WG1215942</a>
Xylenes, Total	U		0.316	1.50	1	12/26/2018 13:46	<a href="#">WG1215942</a>
<i>(S) Toluene-d8</i>	102			80.0-120		12/26/2018 13:46	<a href="#">WG1215942</a>
<i>(S) Dibromofluoromethane</i>	101			75.0-120		12/26/2018 13:46	<a href="#">WG1215942</a>
<i>(S) 4-Bromofluorobenzene</i>	109			77.0-126		12/26/2018 13:46	<a href="#">WG1215942</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Collected date/time: 12/21/18 00:00

L1055718

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Acrylonitrile	U		0.873	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Benzene	0.135	J	0.0896	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromobenzene	U		0.133	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromodichloromethane	U		0.0800	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromochloromethane	U		0.145	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromoform	U		0.186	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Bromomethane	U		0.157	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
n-Butylbenzene	U		0.143	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
sec-Butylbenzene	U		0.134	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
tert-Butylbenzene	U		0.183	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Carbon disulfide	U		0.101	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Carbon tetrachloride	U		0.159	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chlorobenzene	U		0.140	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chlorodibromomethane	U		0.128	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chloroethane	U		0.141	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chloroform	U		0.0860	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Chloromethane	U		0.153	1.25	1	12/26/2018 12:47	<a href="#">WG1215942</a>
2-Chlorotoluene	U		0.111	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
4-Chlorotoluene	U		0.0972	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dibromoethane	U		0.193	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Dibromomethane	U		0.117	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Dichlorodifluoromethane	U		0.127	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1-Dichloroethane	U		0.114	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dichloroethane	U		0.108	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1-Dichloroethene	U		0.188	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2-Dichloropropane	U		0.190	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1-Dichloropropene	U		0.128	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,3-Dichloropropane	U		0.147	1.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
2,2-Dichloropropane	U		0.0929	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Di-isopropyl ether	U		0.0924	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Ethylbenzene	U		0.158	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
2-Hexanone	U		0.757	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
n-Hexane	U		0.305	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Iodomethane	U		0.377	10.0	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Isopropylbenzene	U		0.126	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
p-Isopropyltoluene	U		0.138	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
2-Butanone (MEK)	U		1.28	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Methylene Chloride	U		1.07	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Methyl tert-butyl ether	U		0.102	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Naphthalene	0.341	B J	0.174	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
n-Propylbenzene	U		0.162	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Styrene	U		0.117	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Collected date/time: 12/21/18 00:00

L1055718

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Tetrachloroethene	U		0.199	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Toluene	U		0.412	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Trichloroethene	0.192	J	0.153	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Trichlorofluoromethane	U		0.130	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Vinyl acetate	U		0.645	5.00	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Vinyl chloride	U		0.118	0.500	1	12/26/2018 12:47	<a href="#">WG1215942</a>
Xylenes, Total	U		0.316	1.50	1	12/26/2018 12:47	<a href="#">WG1215942</a>
(S) Toluene-d8	100			80.0-120		12/26/2018 12:47	<a href="#">WG1215942</a>
(S) Dibromofluoromethane	101			75.0-120		12/26/2018 12:47	<a href="#">WG1215942</a>
(S) 4-Bromofluorobenzene	102			77.0-126		12/26/2018 12:47	<a href="#">WG1215942</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	125000		2710	20000	1	01/09/2019 11:14	<a href="#">WG1220272</a>

Sample Narrative:

L1057965-01 WG1220272: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	14100		51.9	1000	1	01/04/2019 19:25	<a href="#">WG1218970</a>
Nitrate	U		22.7	100	1	01/04/2019 19:25	<a href="#">WG1218970</a>
Sulfate	47500		77.4	5000	1	01/04/2019 19:25	<a href="#">WG1218970</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3900		102	1000	1	01/08/2019 02:06	<a href="#">WG1220033</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	2190		15.0	100	1	01/07/2019 21:24	<a href="#">WG1219455</a>
Manganese	375		0.250	5.00	1	01/08/2019 21:59	<a href="#">WG1220618</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/05/2019 09:28	<a href="#">WG1218990</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/05/2019 09:28	<a href="#">WG1218990</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	61.3		0.287	0.678	1	01/09/2019 13:23	<a href="#">WG1220690</a>
Ethane	0.621	J J	0.296	1.29	1	01/09/2019 13:23	<a href="#">WG1220690</a>
Ethene	0.573	J J	0.422	1.27	1	01/09/2019 13:23	<a href="#">WG1220690</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Acrylonitrile	U		0.873	5.00	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Benzene	U		0.0896	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromobenzene	U		0.133	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromochloromethane	U		0.145	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromoform	U		0.186	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Bromomethane	U		0.157	2.50	1	01/04/2019 16:23	<a href="#">WG1219077</a>
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Carbon disulfide	U		0.101	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/04/2019 16:23	WG1219077
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 16:23	WG1219077
Chloroethane	U		0.141	2.50	1	01/04/2019 16:23	WG1219077
Chloroform	U		0.0860	0.500	1	01/04/2019 16:23	WG1219077
Chloromethane	U		0.153	1.25	1	01/04/2019 16:23	WG1219077
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 16:23	WG1219077
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 16:23	WG1219077
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 16:23	WG1219077
Dibromomethane	U		0.117	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 16:23	WG1219077
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 16:23	WG1219077
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 16:23	WG1219077
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 16:23	WG1219077
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 16:23	WG1219077
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 16:23	WG1219077
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 16:23	WG1219077
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 16:23	WG1219077
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 16:23	WG1219077
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 16:23	WG1219077
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 16:23	WG1219077
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 16:23	WG1219077
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 16:23	WG1219077
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	01/04/2019 16:23	WG1219077
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 16:23	WG1219077
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 16:23	WG1219077
Ethylbenzene	U		0.158	0.500	1	01/04/2019 16:23	WG1219077
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 16:23	WG1219077
2-Hexanone	U		0.757	5.00	1	01/04/2019 16:23	WG1219077
n-Hexane	U		0.305	5.00	1	01/04/2019 16:23	WG1219077
Iodomethane	U		0.377	10.0	1	01/04/2019 16:23	WG1219077
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 16:23	WG1219077
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 16:23	WG1219077
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 16:23	WG1219077
Methylene Chloride	U		1.07	2.50	1	01/04/2019 16:23	WG1219077
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 16:23	WG1219077
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 16:23	WG1219077
Naphthalene	U		0.174	2.50	1	01/04/2019 16:23	WG1219077
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 16:23	WG1219077
Styrene	U		0.117	0.500	1	01/04/2019 16:23	WG1219077
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 16:23	WG1219077
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 16:23	WG1219077
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 16:23	WG1219077
Tetrachloroethene	U		0.199	0.500	1	01/04/2019 16:23	WG1219077
Toluene	0.442	J U	0.412	0.500	1	01/04/2019 16:23	WG1219077
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 16:23	WG1219077
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 16:23	WG1219077
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 16:23	WG1219077
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 16:23	WG1219077
Trichloroethene	U		0.153	0.500	1	01/04/2019 16:23	WG1219077
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 16:23	WG1219077
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 16:23	WG1219077
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 16:23	WG1219077
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 16:23	WG1219077
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 16:23	WG1219077

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Vinyl chloride	U		0.118	0.500	1	01/04/2019 16:23	<a href="#">WG1219077</a>
Xylenes, Total	U		0.316	1.50	1	01/04/2019 16:23	<a href="#">WG1219077</a>
<i>(S) Toluene-d8</i>	106			80.0-120		01/04/2019 16:23	<a href="#">WG1219077</a>
<i>(S) Dibromofluoromethane</i>	88.6			75.0-120		01/04/2019 16:23	<a href="#">WG1219077</a>
<i>(S) 4-Bromofluorobenzene</i>	103			77.0-126		01/04/2019 16:23	<a href="#">WG1219077</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	81.5	J J	31.6	100	1	01/05/2019 09:50	<a href="#">WG1218990</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/05/2019 09:50	<a href="#">WG1218990</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Acrylonitrile	U		0.873	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Benzene	U		0.0896	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromobenzene	U		0.133	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromochloromethane	U		0.145	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromoform	U		0.186	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Bromomethane	U		0.157	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Carbon disulfide	U		0.101	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chlorobenzene	U		0.140	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chloroethane	U		0.141	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chloroform	U		0.0860	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Chloromethane	U		0.153	1.25	1	01/04/2019 16:43	<a href="#">WG1219077</a>
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Dibromomethane	U		0.117	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Ethylbenzene	U		0.158	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
2-Hexanone	U		0.757	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
n-Hexane	U		0.305	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a> JC 3/11/19
Iodomethane	U		0.377	10.0	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Naphthalene	U		0.174	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Styrene	U		0.117	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Tetrachloroethene	0.477	J ↓	0.199	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Toluene	U		0.412	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Trichloroethene	U		0.153	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Vinyl acetate	U		0.645	5.00	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Vinyl chloride	U		0.118	0.500	1	01/04/2019 16:43	<a href="#">WG1219077</a>
Xylenes, Total	U		0.316	1.50	1	01/04/2019 16:43	<a href="#">WG1219077</a>
(S) Toluene-d8	105			80.0-120		01/04/2019 16:43	<a href="#">WG1219077</a>
(S) Dibromofluoromethane	89.9			75.0-120		01/04/2019 16:43	<a href="#">WG1219077</a>
(S) 4-Bromofluorobenzene	103			77.0-126		01/04/2019 16:43	<a href="#">WG1219077</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Collected date/time: 01/03/19 00:00

L1057965

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Acrylonitrile	U		0.873	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Benzene	U		0.0896	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromobenzene	U		0.133	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromodichloromethane	U		0.0800	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromochloromethane	U		0.145	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromoform	U		0.186	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Bromomethane	U		0.157	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
n-Butylbenzene	U		0.143	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
sec-Butylbenzene	U		0.134	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
tert-Butylbenzene	U		0.183	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Carbon disulfide	U		0.101	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Carbon tetrachloride	U		0.159	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chlorobenzene	U		0.140	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chlorodibromomethane	U		0.128	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chloroethane	U		0.141	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chloroform	U		0.0860	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Chloromethane	U		0.153	1.25	1	01/04/2019 13:13	<a href="#">WG1219077</a>
2-Chlorotoluene	U		0.111	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Dibromomethane	U		0.117	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
trans-1,4-Dichloro-2-butene	U	<b>UJ</b> <u>JO</u>	0.257	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Ethylbenzene	U		0.158	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
2-Hexanone	U		0.757	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
n-Hexane	U		0.305	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Iodomethane	U		0.377	10.0	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Isopropylbenzene	U		0.126	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Methylene Chloride	U		1.07	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Naphthalene	U		0.174	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
n-Propylbenzene	U		0.162	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Styrene	U		0.117	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Collected date/time: 01/03/19 00:00

L1057965

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Tetrachloroethene	U		0.199	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Toluene	U		0.412	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Trichloroethene	U		0.153	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Vinyl acetate	U		0.645	5.00	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Vinyl chloride	U		0.118	0.500	1	01/04/2019 13:13	<a href="#">WG1219077</a>
Xylenes, Total	U		0.316	1.50	1	01/04/2019 13:13	<a href="#">WG1219077</a>
(S) Toluene-d8	107			80.0-120		01/04/2019 13:13	<a href="#">WG1219077</a>
(S) Dibromofluoromethane	87.4			75.0-120		01/04/2019 13:13	<a href="#">WG1219077</a>
(S) 4-Bromofluorobenzene	103			77.0-126		01/04/2019 13:13	<a href="#">WG1219077</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	302000		2710	20000	1	01/25/2019 15:03	<a href="#">WG1228020</a>

Sample Narrative:

L1063581-08 WG1228020: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	56200		51.9	1000	1	01/23/2019 20:30	<a href="#">WG1227335</a>
Nitrate	U		22.7	100	1	01/23/2019 20:30	<a href="#">WG1227335</a>
Sulfate	43200		77.4	5000	1	01/23/2019 20:30	<a href="#">WG1227335</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	5200		102	1000	1	01/28/2019 16:27	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	6010		15.0	100	1	01/24/2019 18:01	<a href="#">WG1227051</a>
Manganese	646		0.250	5.00	1	01/24/2019 18:01	<a href="#">WG1227051</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	663	J +	31.6	100	1	01/24/2019 06:39	<a href="#">WG1227572</a> <span style="color: red;">JC 3/19/19 &amp; JC 3/26/19</span>
(S) a,a,a-Trifluorotoluene(FID)	95.0			78.0-120		01/24/2019 06:39	<a href="#">WG1227572</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Methane	4210		0.287	0.678	1	01/25/2019 12:13	<a href="#">WG1227529</a>
Ethane	2.10		0.296	1.29	1	01/25/2019 12:13	<a href="#">WG1227529</a>
Ethene	100		0.422	1.27	1	01/25/2019 12:13	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Acetone	1.51	J J	1.05	25.0	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a> <span style="color: red;">JC 3/11/19</span>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 15:01	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,1-Dichloroethene	6.83		0.188	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	1230		0.933	5.00	10	01/27/2019 21:34	<a href="#">WG1228835</a>
trans-1,2-Dichloroethene	2.88		0.152	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Tetrachloroethene	98.2		0.199	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Trichloroethene	179		0.153	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Vinyl chloride	738		1.18	5.00	10	01/27/2019 21:34	<a href="#">WG1228835</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
(S) Toluene-d8	106			80.0-120		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	99.6			75.0-120		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	89.5			77.0-126		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) Toluene-d8	99.3			80.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	91.6			80.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	95.0			77.0-126		01/24/2019 15:01	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.54	J J	1.05	25.0	1	01/24/2019 16:20	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 16:20	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 16:20	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 16:20	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 16:20	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 16:20	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 16:20	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 16:20	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 16:20	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 16:20	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 16:20	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 16:20	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 16:20	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 16:20	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 16:20	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 16:20	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 16:20	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 16:20	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 16:20	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 16:20	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 16:20	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 16:20	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 16:20	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 16:20	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 16:20	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 16:20	WG1227840
1,1-Dichloroethene	0.739		0.188	0.500	1	01/24/2019 16:20	WG1227840
cis-1,2-Dichloroethene	403		0.466	2.50	5	01/27/2019 22:35	WG1228835
trans-1,2-Dichloroethene	2.08		0.152	0.500	1	01/24/2019 16:20	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 16:20	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 16:20	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 16:20	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 16:20	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 16:20	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 16:20	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 16:20	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 16:20	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 16:20	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 16:20	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 16:20	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 16:20	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 16:20	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 16:20	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 16:20	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 16:20	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 16:20	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 16:20	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 16:20	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 16:20	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 16:20	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 16:20	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 16:20	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 16:20	WG1227840

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Tetrachloroethene	U		0.995	2.50	5	01/27/2019 22:35	<a href="#">WG1228835</a>
Toluene	U		0.412	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Trichloroethene	43.8		0.765	2.50	5	01/27/2019 22:35	<a href="#">WG1228835</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Vinyl chloride	36.8		0.118	0.500	1	01/24/2019 16:20	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 16:20	<a href="#">WG1227840</a>
(S) Toluene-d8	105			80.0-120		01/27/2019 22:35	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	97.4			75.0-120		01/27/2019 22:35	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	85.0			77.0-126		01/27/2019 22:35	<a href="#">WG1228835</a>
(S) Toluene-d8	101			80.0-120		01/24/2019 16:20	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	101			75.0-120		01/24/2019 16:20	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	96.4			80.0-120		01/24/2019 16:20	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.4			77.0-126		01/24/2019 16:20	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	151000		2710	20000	1	01/29/2019 13:42	<a href="#">WG1229337</a>

Sample Narrative:

L1063697-02 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	17700		51.9	1000	1	01/24/2019 17:29	<a href="#">WG1227809</a>
Nitrate	U		22.7	100	1	01/24/2019 17:29	<a href="#">WG1227809</a>
Sulfate	154000		387	25000	5	01/25/2019 08:39	<a href="#">WG1227809</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4040	<u>B</u>	204	2000	2	01/28/2019 17:11	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	10100		15.0	100	1	01/28/2019 01:13	<a href="#">WG1228207</a>
Manganese	594		0.250	5.00	1	01/28/2019 01:13	<a href="#">WG1228207</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 20:03	<a href="#">WG1227701</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		01/24/2019 20:03	<a href="#">WG1227701</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	1390		0.287	0.678	1	01/25/2019 14:13	<a href="#">WG1227529</a>
Ethane	U		0.296	1.29	1	01/25/2019 14:13	<a href="#">WG1227529</a>
Ethene	2.84		0.422	1.27	1	01/25/2019 14:13	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.90	<u>U</u>	1.05	25.0	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 01/23/19 12:25

L1063697

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 16:40	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 16:40	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 16:40	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 16:40	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 16:40	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 16:40	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 16:40	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 16:40	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 16:40	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 16:40	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 16:40	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 16:40	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 16:40	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 16:40	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 16:40	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 16:40	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 16:40	WG1227840
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/27/2019 21:14	WG1228835
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 16:40	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 16:40	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 16:40	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 16:40	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 16:40	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 16:40	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 16:40	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 16:40	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 16:40	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 16:40	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 16:40	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 16:40	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 16:40	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 16:40	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 16:40	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 16:40	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 16:40	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 16:40	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 16:40	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 16:40	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 16:40	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 16:40	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 16:40	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 16:40	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 16:40	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 16:40	WG1227840
Tetrachloroethene	1.24		0.199	0.500	1	01/24/2019 16:40	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 16:40	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 16:40	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 16:40	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 16:40	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 16:40	WG1227840
Trichloroethene	0.347	J U	0.153	0.500	1	01/24/2019 16:40	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 16:40	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 16:40	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 16:40	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 16:40	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 16:40	WG1227840

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Vinyl acetate	U		0.645	5.00	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 16:40	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 16:40	<a href="#">WG1227840</a>
(S) Toluene-d8	108			80.0-120		01/27/2019 21:14	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	94.6			75.0-120		01/27/2019 21:14	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	87.5			77.0-126		01/27/2019 21:14	<a href="#">WG1228835</a>
(S) Toluene-d8	100			80.0-120		01/24/2019 16:40	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 16:40	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.4			80.0-120		01/24/2019 16:40	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.4			77.0-126		01/24/2019 16:40	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	210000		2710	20000	1	01/29/2019 13:51	<a href="#">WG1229337</a>

Sample Narrative:

L1063697-03 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	28100		51.9	1000	1	01/24/2019 17:45	<a href="#">WG1227809</a>
Nitrate	U		22.7	100	1	01/24/2019 17:45	<a href="#">WG1227809</a>
Sulfate	11000		77.4	5000	1	01/24/2019 17:45	<a href="#">WG1227809</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1960	<u>B</u>	102	1000	1	01/28/2019 17:24	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	13800		15.0	100	1	01/28/2019 01:18	<a href="#">WG1228207</a>
Manganese	809		0.250	5.00	1	01/28/2019 01:18	<a href="#">WG1228207</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 20:25	<a href="#">WG1227701</a>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		01/24/2019 20:25	<a href="#">WG1227701</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	286		0.287	0.678	1	01/25/2019 14:02	<a href="#">WG1227529</a>
Ethane	U		0.296	1.29	1	01/25/2019 14:02	<a href="#">WG1227529</a>
Ethene	4.19		0.422	1.27	1	01/25/2019 14:02	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	1.73	<u>U</u>	1.05	25.0	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>

JC 3/11/19

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:00	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:00	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 17:00	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 17:00	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 17:00	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:00	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:00	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:00	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:00	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:00	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:00	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:00	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:00	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:00	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:00	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:00	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 17:00	WG1227840
cis-1,2-Dichloroethene	1.51		0.0933	0.500	1	01/24/2019 17:00	WG1227840
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 17:00	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:00	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:00	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:00	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:00	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:00	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:00	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:00	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:00	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:00	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:00	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:00	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 17:00	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 17:00	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:00	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:00	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:00	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:00	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:00	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:00	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 17:00	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:00	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 17:00	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:00	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:00	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:00	WG1227840
Tetrachloroethene	0.790		0.199	0.500	1	01/24/2019 17:00	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 17:00	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:00	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:00	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:00	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:00	WG1227840
Trichloroethene	0.317	J U	0.153	0.500	1	01/24/2019 17:00	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:00	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:00	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:00	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:00	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:00	WG1227840

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Vinyl chloride	0.392	J ↓	0.118	0.500	1	01/24/2019 17:00	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:00	<a href="#">WG1227840</a>
(S) Toluene-d8	100			80.0-120		01/24/2019 17:00	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	101			75.0-120		01/24/2019 17:00	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.1			80.0-120		01/24/2019 17:00	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.0			77.0-126		01/24/2019 17:00	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	280000		2710	20000	1	01/29/2019 13:58	<a href="#">WG1229337</a>

Sample Narrative:

L1063697-04 WG1229337: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	12400		51.9	1000	1	01/24/2019 18:01	<a href="#">WG1227809</a>
Nitrate	891		22.7	100	1	01/24/2019 18:01	<a href="#">WG1227809</a>
Sulfate	93300		77.4	5000	1	01/24/2019 18:01	<a href="#">WG1227809</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	3430		102	1000	1	01/28/2019 17:37	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	95.4	J	15.0	100	1	01/28/2019 00:55	<a href="#">WG1228207</a>
Manganese	82.0	J	0.250	5.00	1	01/28/2019 00:55	<a href="#">WG1228207</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	99.6	J	31.6	100	1	01/24/2019 20:47	<a href="#">WG1227701</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/24/2019 20:47	<a href="#">WG1227701</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	111		0.287	0.678	1	01/25/2019 14:07	<a href="#">WG1227529</a>
Ethane	0.735	J	0.296	1.29	1	01/25/2019 14:07	<a href="#">WG1227529</a>
Ethene	U		0.422	1.27	1	01/25/2019 14:07	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 3/11/19



Collected date/time: 01/23/19 11:00

L1063697

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 17:20	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1-Dichloroethene	0.403	J U	0.188	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	81.5		0.0933	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	0.402	J U	0.152	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Tetrachloroethene	133		0.199	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Trichloroethene	43.1		0.153	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a> JC 3/11/19
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Vinyl chloride	0.618		0.118	0.500	1	01/24/2019 17:20	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:20	<a href="#">WG1227840</a>
(S) Toluene-d8	102			80.0-120		01/24/2019 17:20	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 17:20	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	97.3			80.0-120		01/24/2019 17:20	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.1			77.0-126		01/24/2019 17:20	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chlorobenzene	U		0.140	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chloroethane	U		0.141	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chloroform	U		0.0860	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Chloromethane	U		0.153	1.25	1	01/24/2019 17:40	<a href="#">WG1227840</a>
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Dibromomethane	U		0.117	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
cis-1,2-Dichloroethene	1.70		0.0933	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Ethylbenzene	U		0.158	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
2-Hexanone	U		0.757	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
n-Hexane	U		0.305	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Iodomethane	U		0.377	10.0	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Methylene Chloride	U		1.07	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Naphthalene	U		0.174	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Styrene	U		0.117	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Tetrachloroethene	0.492	J ↓	0.199	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Toluene	U		0.412	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Trichloroethene	0.176	J ↓	0.153	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Vinyl chloride	37.6		0.118	0.500	1	01/24/2019 17:40	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 17:40	<a href="#">WG1227840</a>
(S) Toluene-d8	102			80.0-120		01/24/2019 17:40	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	105			75.0-120		01/24/2019 17:40	<a href="#">WG1227840</a>
(S) α,α,α-Trifluorotoluene	98.6			80.0-120		01/24/2019 17:40	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	94.1			77.0-126		01/24/2019 17:40	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	23.0	J	1.05	25.0	1	01/24/2019 18:00	WG1227840
Acrylonitrile	U	J	0.873	5.00	1	01/24/2019 18:00	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 18:00	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 18:00	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 18:00	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 18:00	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 18:00	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 18:00	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 18:00	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 18:00	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 18:00	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 18:00	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 18:00	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 18:00	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 18:00	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 18:00	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 18:00	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 18:00	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 18:00	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 18:00	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 18:00	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 18:00	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 18:00	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 18:00	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 18:00	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 18:00	WG1227840
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 18:00	WG1227840
cis-1,2-Dichloroethene	11.4		0.0933	0.500	1	01/24/2019 18:00	WG1227840
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 18:00	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 18:00	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 18:00	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 18:00	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 18:00	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 18:00	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 18:00	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 18:00	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 18:00	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 18:00	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 18:00	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 18:00	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 18:00	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 18:00	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 18:00	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 18:00	WG1227840
2-Butanone (MEK)	8.78		1.28	5.00	1	01/24/2019 18:00	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 18:00	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 18:00	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 18:00	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 18:00	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 18:00	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 18:00	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 18:00	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 18:00	WG1227840

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Tetrachloroethene	0.365	J	0.199	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Toluene	1.35		0.412	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Trichloroethene	1.48		0.153	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Vinyl chloride	6.68		0.118	0.500	1	01/24/2019 18:00	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 18:00	<a href="#">WG1227840</a>
(S) Toluene-d8	98.6			80.0-120		01/24/2019 18:00	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 18:00	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	98.3			80.0-120		01/24/2019 18:00	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	92.7			77.0-126		01/24/2019 18:00	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/24/2019 18:19	WG1227840
Acrylonitrile	U		0.873	5.00	1	01/24/2019 18:19	WG1227840
Benzene	U		0.0896	0.500	1	01/24/2019 18:19	WG1227840
Bromobenzene	U		0.133	0.500	1	01/24/2019 18:19	WG1227840
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 18:19	WG1227840
Bromochloromethane	U		0.145	0.500	1	01/24/2019 18:19	WG1227840
Bromoform	U		0.186	0.500	1	01/24/2019 18:19	WG1227840
Bromomethane	U		0.157	2.50	1	01/24/2019 18:19	WG1227840
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 18:19	WG1227840
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 18:19	WG1227840
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 18:19	WG1227840
Carbon disulfide	U		0.101	0.500	1	01/24/2019 18:19	WG1227840
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 18:19	WG1227840
Chlorobenzene	U		0.140	0.500	1	01/24/2019 18:19	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 18:19	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 18:19	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 18:19	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 18:19	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 18:19	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 18:19	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 18:19	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 18:19	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 18:19	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 18:19	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 18:19	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 18:19	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 18:19	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 18:19	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 18:19	WG1227840
1,1-Dichloroethene	6.44		0.188	0.500	1	01/24/2019 18:19	WG1227840
cis-1,2-Dichloroethene	673		1.87	10.0	20	01/27/2019 22:55	WG1228835
trans-1,2-Dichloroethene	5.83		0.152	0.500	1	01/24/2019 18:19	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 18:19	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 18:19	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 18:19	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 18:19	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 18:19	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 18:19	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 18:19	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 18:19	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 18:19	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 18:19	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 18:19	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 18:19	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 18:19	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 18:19	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 18:19	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 18:19	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 18:19	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 18:19	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 18:19	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 18:19	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 18:19	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 18:19	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 18:19	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 18:19	WG1227840

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Tetrachloroethene	1260		3.98	10.0	20	01/27/2019 22:55	<a href="#">WG1228835</a>
Toluene	U		0.412	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Trichloroethene	490		3.06	10.0	20	01/27/2019 22:55	<a href="#">WG1228835</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Vinyl chloride	1.39		0.118	0.500	1	01/24/2019 18:19	<a href="#">WG1227840</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 18:19	<a href="#">WG1227840</a>
(S) Toluene-d8	107			80.0-120		01/27/2019 22:55	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	98.8			75.0-120		01/27/2019 22:55	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	85.0			77.0-126		01/27/2019 22:55	<a href="#">WG1228835</a>
(S) Toluene-d8	108			80.0-120		01/24/2019 18:19	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	103			75.0-120		01/24/2019 18:19	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	81.7			80.0-120		01/24/2019 18:19	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		01/24/2019 18:19	<a href="#">WG1227840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	<del>J4</del>	1.05	25.0	1	01/24/2019 21:58	WG1228162
Acrylonitrile	U		0.873	5.00	1	01/24/2019 21:58	WG1228162
Benzene	U		0.0896	0.500	1	01/24/2019 21:58	WG1228162
Bromobenzene	U		0.133	0.500	1	01/24/2019 21:58	WG1228162
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 21:58	WG1228162
Bromochloromethane	U		0.145	0.500	1	01/24/2019 21:58	WG1228162
Bromoform	U		0.186	0.500	1	01/24/2019 21:58	WG1228162
Bromomethane	U		0.157	2.50	1	01/24/2019 21:58	WG1228162
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 21:58	WG1228162
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 21:58	WG1228162
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 21:58	WG1228162
Carbon disulfide	U		0.101	0.500	1	01/24/2019 21:58	WG1228162
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 21:58	WG1228162
Chlorobenzene	U		0.140	0.500	1	01/24/2019 21:58	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 21:58	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 21:58	WG1228162
Chloroform	U		0.0860	0.500	1	01/24/2019 21:58	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 21:58	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 21:58	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 21:58	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 21:58	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 21:58	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 21:58	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 21:58	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 21:58	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 21:58	WG1228162
1,1-Dichloroethene	6.88		0.188	0.500	1	01/24/2019 21:58	WG1228162
cis-1,2-Dichloroethene	718		18.7	100	200	01/30/2019 03:14	WG1229996
trans-1,2-Dichloroethene	6.49		0.152	0.500	1	01/24/2019 21:58	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 21:58	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 21:58	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 21:58	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 21:58	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 21:58	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 21:58	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 21:58	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 21:58	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 21:58	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 21:58	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 21:58	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 21:58	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 21:58	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 21:58	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 21:58	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 21:58	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 21:58	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 21:58	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 21:58	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 21:58	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 21:58	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 21:58	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 21:58	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 21:58	WG1228162

- 1 Cp
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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Tetrachloroethene	1120		39.8	100	200	01/30/2019 03:14	<a href="#">WG1229996</a>
Toluene	U		0.412	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Trichloroethene	499		30.6	100	200	01/30/2019 03:14	<a href="#">WG1229996</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Vinyl chloride	1.51		0.118	0.500	1	01/24/2019 21:58	<a href="#">WG1228162</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 21:58	<a href="#">WG1228162</a>
(S) Toluene-d8	108			80.0-120		01/24/2019 21:58	<a href="#">WG1228162</a>
(S) Toluene-d8	85.4			80.0-120		01/30/2019 03:14	<a href="#">WG1229996</a>
(S) Dibromofluoromethane	102			75.0-120		01/24/2019 21:58	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	91.7			77.0-126		01/24/2019 21:58	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	99.0			77.0-126		01/30/2019 03:14	<a href="#">WG1229996</a>
(S) 1,2-Dichloroethane-d4	95.7			70.0-130		01/30/2019 03:14	<a href="#">WG1229996</a>

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## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	3610	<u>B</u> <u>J</u>	2710	20000	1	01/29/2019 13:19	<a href="#">WG1229337</a>

## Sample Narrative:

L1063697-09 WG1229337: Endpoint pH 4.5 headspace

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	59.6	<u>J</u>	51.9	1000	1	01/24/2019 18:49	<a href="#">WG1227809</a>
Nitrate	39.8	<u>J</u>	22.7	100	1	01/24/2019 18:49	<a href="#">WG1227809</a>
Sulfate	U		77.4	5000	1	01/25/2019 08:55	<a href="#">WG1227809</a>

## Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	555	<u>B</u> <u>J</u>	102	1000	1	01/28/2019 17:50	<a href="#">WG1229248</a>

## Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	37.7	<u>J</u>	15.0	100	1	01/28/2019 01:23	<a href="#">WG1228207</a>
Manganese	1.94	<u>J</u>	0.250	5.00	1	01/28/2019 01:23	<a href="#">WG1228207</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/24/2019 21:09	<a href="#">WG1227701</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/24/2019 21:09	<a href="#">WG1227701</a>

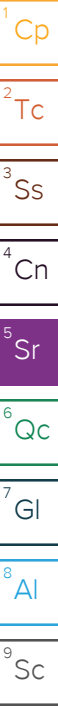
## Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	U		0.287	0.678	1	01/25/2019 14:10	<a href="#">WG1227529</a>
Ethane	U		0.296	1.29	1	01/25/2019 14:10	<a href="#">WG1227529</a>
Ethene	U		0.422	1.27	1	01/25/2019 14:10	<a href="#">WG1227529</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	2.43	<u>J</u> <u>J4</u>	1.05	25.0	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Benzene	U		0.0896	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromoform	U		0.186	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 22:17	<a href="#">WG1228162</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>

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Collected date/time: 01/23/19 15:30

L1063697

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 22:17	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 22:17	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 22:17	WG1228162
Chloroform	0.151	U	0.0860	0.500	1	01/24/2019 22:17	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 22:17	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 22:17	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 22:17	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 22:17	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 22:17	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 22:17	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 22:17	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 22:17	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 22:17	WG1228162
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 22:17	WG1228162
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/30/2019 03:34	WG1229996
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 22:17	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 22:17	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 22:17	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 22:17	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 22:17	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 22:17	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 22:17	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 22:17	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 22:17	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 22:17	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 22:17	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 22:17	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 22:17	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 22:17	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 22:17	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 22:17	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 22:17	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 22:17	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 22:17	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 22:17	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 22:17	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 22:17	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 22:17	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 22:17	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 22:17	WG1228162
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 22:17	WG1228162
Tetrachloroethene	U		0.199	0.500	1	01/30/2019 03:34	WG1229996
Toluene	U		0.412	0.500	1	01/24/2019 22:17	WG1228162
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 22:17	WG1228162
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 22:17	WG1228162
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 22:17	WG1228162
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 22:17	WG1228162
Trichloroethene	U		0.153	0.500	1	01/30/2019 03:34	WG1229996
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 22:17	WG1228162
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 22:17	WG1228162
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 22:17	WG1228162
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 22:17	WG1228162
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 22:17	WG1228162

1 Cp

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7 Gl

8 Al

9 Sc

JC 3/11/19



Collected date/time: 01/23/19 15:30

L1063697

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 22:17	<a href="#">WG1228162</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 22:17	<a href="#">WG1228162</a>
(S) Toluene-d8	101			80.0-120		01/24/2019 22:17	<a href="#">WG1228162</a>
(S) Toluene-d8	91.4			80.0-120		01/30/2019 03:34	<a href="#">WG1229996</a>
(S) Dibromofluoromethane	105			75.0-120		01/24/2019 22:17	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	93.6			77.0-126		01/24/2019 22:17	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	96.6			77.0-126		01/30/2019 03:34	<a href="#">WG1229996</a>
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		01/30/2019 03:34	<a href="#">WG1229996</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J4	1.05	25.0	1	01/24/2019 20:19	WG1228162
Acrylonitrile	U		0.873	5.00	1	01/24/2019 20:19	WG1228162
Benzene	U		0.0896	0.500	1	01/24/2019 20:19	WG1228162
Bromobenzene	U		0.133	0.500	1	01/24/2019 20:19	WG1228162
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 20:19	WG1228162
Bromochloromethane	U		0.145	0.500	1	01/24/2019 20:19	WG1228162
Bromoform	U		0.186	0.500	1	01/24/2019 20:19	WG1228162
Bromomethane	U		0.157	2.50	1	01/24/2019 20:19	WG1228162
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 20:19	WG1228162
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 20:19	WG1228162
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 20:19	WG1228162
Carbon disulfide	U		0.101	0.500	1	01/24/2019 20:19	WG1228162
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 20:19	WG1228162
Chlorobenzene	U		0.140	0.500	1	01/24/2019 20:19	WG1228162
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 20:19	WG1228162
Chloroethane	U		0.141	2.50	1	01/24/2019 20:19	WG1228162
Chloroform	U		0.0860	0.500	1	01/24/2019 20:19	WG1228162
Chloromethane	U		0.153	1.25	1	01/24/2019 20:19	WG1228162
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 20:19	WG1228162
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 20:19	WG1228162
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 20:19	WG1228162
Dibromomethane	U		0.117	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 20:19	WG1228162
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 20:19	WG1228162
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 20:19	WG1228162
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 20:19	WG1228162
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 20:19	WG1228162
1,1-Dichloroethene	U		0.188	0.500	1	01/24/2019 20:19	WG1228162
cis-1,2-Dichloroethene	0.106	BJ	0.0933	0.500	1	01/24/2019 20:19	WG1228162
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/24/2019 20:19	WG1228162
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 20:19	WG1228162
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 20:19	WG1228162
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 20:19	WG1228162
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 20:19	WG1228162
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 20:19	WG1228162
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 20:19	WG1228162
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 20:19	WG1228162
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 20:19	WG1228162
Ethylbenzene	U		0.158	0.500	1	01/24/2019 20:19	WG1228162
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 20:19	WG1228162
2-Hexanone	U		0.757	5.00	1	01/24/2019 20:19	WG1228162
n-Hexane	U		0.305	5.00	1	01/24/2019 20:19	WG1228162
Iodomethane	U		0.377	10.0	1	01/24/2019 20:19	WG1228162
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 20:19	WG1228162
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 20:19	WG1228162
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 20:19	WG1228162
Methylene Chloride	U		1.07	2.50	1	01/24/2019 20:19	WG1228162
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 20:19	WG1228162
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 20:19	WG1228162
Naphthalene	U		0.174	2.50	1	01/24/2019 20:19	WG1228162
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 20:19	WG1228162
Styrene	U		0.117	0.500	1	01/24/2019 20:19	WG1228162
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 20:19	WG1228162
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 20:19	WG1228162

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Collected date/time: 01/23/19 00:00

L1063697

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Tetrachloroethene	U		0.199	0.500	1	01/30/2019 03:53	<a href="#">WG1229996</a>
Toluene	0.427	↓	0.412	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Trichloroethene	U		0.153	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Vinyl acetate	U		0.645	5.00	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Vinyl chloride	U		0.118	0.500	1	01/24/2019 20:19	<a href="#">WG1228162</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 20:19	<a href="#">WG1228162</a>
(S) Toluene-d8	100			80.0-120		01/24/2019 20:19	<a href="#">WG1228162</a>
(S) Toluene-d8	91.8			80.0-120		01/30/2019 03:53	<a href="#">WG1229996</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 20:19	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	93.5			77.0-126		01/24/2019 20:19	<a href="#">WG1228162</a>
(S) 4-Bromofluorobenzene	97.2			77.0-126		01/30/2019 03:53	<a href="#">WG1229996</a>
(S) 1,2-Dichloroethane-d4	90.4			70.0-130		01/30/2019 03:53	<a href="#">WG1229996</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/25/2019 21:15	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 21:15	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 21:15	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 21:15	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 21:15	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 21:15	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 21:15	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 21:15	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 21:15	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 21:15	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 21:15	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 21:15	WG1228529
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 21:15	WG1228529
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 21:15	WG1228529
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/25/2019 21:15	WG1228529
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 21:15	WG1228529
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 21:15	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 21:15	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 21:15	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 21:15	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 21:15	WG1228529
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	01/28/2019 18:13	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 21:15	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 21:15	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 21:15	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 21:15	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 21:15	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 21:15	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 21:15	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 21:15	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 21:15	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 21:15	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 21:15	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 21:15	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 21:15	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 21:15	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 21:15	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 21:15	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 21:15	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 21:15	WG1228529
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 21:15	WG1228529
Tetrachloroethene	0.220	J J	0.199	0.500	1	01/25/2019 21:15	WG1228529
Toluene	U		0.412	0.500	1	01/25/2019 21:15	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 21:15	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 21:15	WG1228529
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 21:15	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 21:15	WG1228529
Trichloroethene	U		0.153	0.500	1	01/25/2019 21:15	WG1228529
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 21:15	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 21:15	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 21:15	WG1228529
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	01/25/2019 21:15	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 21:15	WG1228529

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/22/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Vinyl chloride	U		0.118	0.500	1	01/25/2019 21:15	<a href="#">WG1228529</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:15	<a href="#">WG1228529</a>
(S) Toluene-d8	99.8			80.0-120		01/25/2019 21:15	<a href="#">WG1228529</a>
(S) Toluene-d8	109			80.0-120		01/28/2019 18:13	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	91.5			75.0-120		01/25/2019 21:15	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	98.7			75.0-120		01/28/2019 18:13	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 21:15	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	99.3			80.0-120		01/28/2019 18:13	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	96.7			77.0-126		01/25/2019 21:15	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	90.5			77.0-126		01/28/2019 18:13	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
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JC 2/22/19





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	329000		2710	20000	1	01/28/2019 13:49	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-02 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	29700		51.9	1000	1	01/25/2019 17:12	<a href="#">WG1228307</a>
Nitrate	U		22.7	100	1	01/25/2019 17:12	<a href="#">WG1228307</a>
Sulfate	26800		77.4	5000	1	01/25/2019 17:12	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	7950		102	1000	1	01/28/2019 14:06	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	181000		15.0	100	1	01/26/2019 16:05	<a href="#">WG1228813</a>
Manganese	3070		0.250	5.00	1	01/26/2019 16:05	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/27/2019 21:46	<a href="#">WG1229109</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/27/2019 21:46	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	196		0.287	0.678	1	01/28/2019 13:57	<a href="#">WG1228571</a>
Ethane	2.52		0.296	1.29	1	01/28/2019 13:57	<a href="#">WG1228571</a>
Ethene	8.12		0.422	1.27	1	01/28/2019 13:57	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Carbon disulfide	0.491	J	0.101	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Chloroethane	U		0.141	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Chloroform	U		0.0860	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Chloromethane	U		0.153	1.25	1	01/25/2019 21:34	<a href="#">WG1228529</a>
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Dibromomethane	U		0.117	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
cis-1,2-Dichloroethene	2.54		0.0933	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	01/28/2019 18:34	<a href="#">WG1229442</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Ethylbenzene	U		0.158	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
2-Hexanone	U		0.757	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
n-Hexane	U		0.305	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Iodomethane	U		0.377	10.0	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Methylene Chloride	U		1.07	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Naphthalene	U		0.174	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Styrene	U		0.117	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Tetrachloroethene	U		0.199	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Toluene	U		0.412	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Trichloroethene	0.325	J J	0.153	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/22/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Vinyl chloride	7.58		0.118	0.500	1	01/25/2019 21:34	<a href="#">WG1228529</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:34	<a href="#">WG1228529</a>
(S) Toluene-d8	100			80.0-120		01/25/2019 21:34	<a href="#">WG1228529</a>
(S) Toluene-d8	107			80.0-120		01/28/2019 18:34	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	90.9			75.0-120		01/25/2019 21:34	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	101			75.0-120		01/28/2019 18:34	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 21:34	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	97.4			80.0-120		01/28/2019 18:34	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	94.7			77.0-126		01/25/2019 21:34	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	93.5			77.0-126		01/28/2019 18:34	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/22/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	421000		2710	20000	1	01/28/2019 13:58	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-03 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	43200		51.9	1000	1	01/25/2019 17:23	<a href="#">WG1228307</a>
Nitrate	U		22.7	100	1	01/25/2019 17:23	<a href="#">WG1228307</a>
Sulfate	24100		77.4	5000	1	01/25/2019 17:23	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	12900		102	1000	1	01/28/2019 14:21	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	5250		15.0	100	1	01/26/2019 16:10	<a href="#">WG1228813</a>
Manganese	1170		0.250	5.00	1	01/26/2019 16:10	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	1870	J+	31.6	100	1	01/27/2019 22:09	<a href="#">WG1229109</a> JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/27/2019 22:09	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4970		0.287	0.678	1	01/28/2019 14:12	<a href="#">WG1228571</a>
Ethane	37.4		0.296	1.29	1	01/28/2019 14:12	<a href="#">WG1228571</a>
Ethene	124		0.422	1.27	1	01/28/2019 14:12	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	1.31	J J	1.05	25.0	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a> JC 2/22/19
Carbon disulfide	U		0.101	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 21:53	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 21:53	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 21:53	WG1228529
Chloroethane	0.505	J J	0.141	2.50	1	01/25/2019 21:53	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 21:53	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 21:53	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 21:53	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 21:53	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 21:53	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 21:53	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 21:53	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 21:53	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 21:53	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 21:53	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 21:53	WG1228529
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 21:53	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 21:53	WG1228529
1,1-Dichloroethene	16.7		0.188	0.500	1	01/25/2019 21:53	WG1228529
cis-1,2-Dichloroethene	4250		18.7	100	200	01/28/2019 19:15	WG1229442
trans-1,2-Dichloroethene	14.2		0.152	0.500	1	01/25/2019 21:53	WG1228529
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 21:53	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 21:53	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 21:53	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 21:53	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 21:53	WG1228529
trans-1,4-Dichloro-2-butene	U	UJ JO	51.4	1000	200	01/28/2019 19:15	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 21:53	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 21:53	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 21:53	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 21:53	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 21:53	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 21:53	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 21:53	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 21:53	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 21:53	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 21:53	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 21:53	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 21:53	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 21:53	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 21:53	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 21:53	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 21:53	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 21:53	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 21:53	WG1228529
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 21:53	WG1228529
Tetrachloroethene	U		0.199	0.500	1	01/25/2019 21:53	WG1228529
Toluene	U		0.412	0.500	1	01/25/2019 21:53	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 21:53	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 21:53	WG1228529
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 21:53	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 21:53	WG1228529
Trichloroethene	1.65		0.153	0.500	1	01/25/2019 21:53	WG1228529
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 21:53	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 21:53	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 21:53	WG1228529
1,2,3-Trimethylbenzene	U	UJ J4	0.0739	0.500	1	01/25/2019 21:53	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 21:53	WG1228529

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/22/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 21:53	<a href="#">WG1228529</a>
Vinyl chloride	674		23.6	100	200	01/28/2019 19:15	<a href="#">WG1229442</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 21:53	<a href="#">WG1228529</a>
(S) Toluene-d8	99.5			80.0-120		01/25/2019 21:53	<a href="#">WG1228529</a>
(S) Toluene-d8	107			80.0-120		01/28/2019 19:15	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	93.1			75.0-120		01/25/2019 21:53	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	100			75.0-120		01/28/2019 19:15	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 21:53	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	101			80.0-120		01/28/2019 19:15	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	93.1			77.0-126		01/25/2019 21:53	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	91.3			77.0-126		01/28/2019 19:15	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/22/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	554000		2710	20000	1	01/28/2019 14:06	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-04 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	25100		51.9	1000	1	01/25/2019 17:34	<a href="#">WG1228307</a>
Nitrate	U		22.7	100	1	01/25/2019 17:34	<a href="#">WG1228307</a>
Sulfate	67600		77.4	5000	1	01/25/2019 17:34	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	34300		102	1000	1	01/28/2019 14:39	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3420		15.0	100	1	01/26/2019 16:14	<a href="#">WG1228813</a>
Manganese	6590		0.250	5.00	1	01/26/2019 16:14	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1480	J+	31.6	100	1	01/27/2019 22:32	<a href="#">WG1229109</a> JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/27/2019 22:32	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	2470		0.287	0.678	1	01/28/2019 14:20	<a href="#">WG1228571</a>
Ethane	44.8		0.296	1.29	1	01/28/2019 14:20	<a href="#">WG1228571</a>
Ethene	U		0.422	1.27	1	01/28/2019 14:20	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a> JC 2/22/19
Carbon disulfide	U		0.101	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 22:12	<a href="#">WG1228529</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/25/2019 22:12	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 22:12	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 22:12	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 22:12	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 22:12	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 22:12	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 22:12	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 22:12	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 22:12	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 22:12	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 22:12	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 22:12	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 22:12	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 22:12	WG1228529
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 22:12	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 22:12	WG1228529
1,1-Dichloroethene	14.1		0.188	0.500	1	01/25/2019 22:12	WG1228529
cis-1,2-Dichloroethene	2050		9.33	50.0	100	01/28/2019 19:36	WG1229442
trans-1,2-Dichloroethene	11.5		0.152	0.500	1	01/25/2019 22:12	WG1228529
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 22:12	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 22:12	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 22:12	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 22:12	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 22:12	WG1228529
trans-1,4-Dichloro-2-butene	U	UJ JO	25.7	500	100	01/28/2019 19:36	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 22:12	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 22:12	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 22:12	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 22:12	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 22:12	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 22:12	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 22:12	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 22:12	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 22:12	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 22:12	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 22:12	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 22:12	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 22:12	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 22:12	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 22:12	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 22:12	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 22:12	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 22:12	WG1228529
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 22:12	WG1228529
Tetrachloroethene	1720		19.9	50.0	100	01/28/2019 19:36	WG1229442
Toluene	U		0.412	0.500	1	01/25/2019 22:12	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 22:12	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 22:12	WG1228529
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 22:12	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 22:12	WG1228529
Trichloroethene	723		15.3	50.0	100	01/28/2019 19:36	WG1229442
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 22:12	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 22:12	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 22:12	WG1228529
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	01/25/2019 22:12	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 22:12	WG1228529

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 2/22/19





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 22:12	<a href="#">WG1228529</a>
Vinyl chloride	U		11.8	50.0	100	01/28/2019 19:36	<a href="#">WG1229442</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 22:12	<a href="#">WG1228529</a>
(S) Toluene-d8	97.8			80.0-120		01/25/2019 22:12	<a href="#">WG1228529</a>
(S) Toluene-d8	106			80.0-120		01/28/2019 19:36	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	91.3			75.0-120		01/25/2019 22:12	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	98.7			75.0-120		01/28/2019 19:36	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	101			80.0-120		01/25/2019 22:12	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	101			80.0-120		01/28/2019 19:36	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	93.9			77.0-126		01/25/2019 22:12	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	92.8			77.0-126		01/28/2019 19:36	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/22/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	206000		2710	20000	1	01/28/2019 14:14	<a href="#">WG1228505</a>

Sample Narrative:

L1064133-05 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	22400		51.9	1000	1	01/25/2019 17:44	<a href="#">WG1228307</a>
Nitrate	1980		22.7	100	1	01/25/2019 17:44	<a href="#">WG1228307</a>
Sulfate	73600		77.4	5000	1	01/25/2019 17:44	<a href="#">WG1228307</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	1780	<b>B</b>	102	1000	1	01/28/2019 14:56	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	3680		15.0	100	1	01/26/2019 15:17	<a href="#">WG1228813</a>
Manganese	387		0.250	5.00	1	01/26/2019 15:17	<a href="#">WG1228813</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	105	<b>J+</b>	31.6	100	1	01/27/2019 22:54	<a href="#">WG1229109</a> <b>JC 3/19/19</b>
(S) a,a,a-Trifluorotoluene(FID)	103			78.0-120		01/27/2019 22:54	<a href="#">WG1229109</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	235		0.287	0.678	1	01/28/2019 14:23	<a href="#">WG1228571</a>
Ethane	2.71		0.296	1.29	1	01/28/2019 14:23	<a href="#">WG1228571</a>
Ethene	U		0.422	1.27	1	01/28/2019 14:23	<a href="#">WG1228571</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U	<b>UJ</b>	<b>J0</b>	1.05	25.0	1	01/25/2019 22:31 <a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
Benzene	U		0.0896	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
Bromobenzene	U		0.133	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
Bromochloromethane	U		0.145	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
Bromoform	U		0.186	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
Bromomethane	U		0.157	2.50	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a> <b>JC 2/22/19</b>	
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
Carbon disulfide	U		0.101	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 22:31 <a href="#">WG1228529</a>	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/25/2019 22:31	WG1228529
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 22:31	WG1228529
Chloroethane	U		0.141	2.50	1	01/25/2019 22:31	WG1228529
Chloroform	U		0.0860	0.500	1	01/25/2019 22:31	WG1228529
Chloromethane	U		0.153	1.25	1	01/25/2019 22:31	WG1228529
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 22:31	WG1228529
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 22:31	WG1228529
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 22:31	WG1228529
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 22:31	WG1228529
Dibromomethane	U		0.117	0.500	1	01/25/2019 22:31	WG1228529
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 22:31	WG1228529
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 22:31	WG1228529
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 22:31	WG1228529
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 22:31	WG1228529
1,1-Dichloroethane	1.61		0.114	0.500	1	01/25/2019 22:31	WG1228529
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 22:31	WG1228529
1,1-Dichloroethene	0.883		0.188	0.500	1	01/25/2019 22:31	WG1228529
cis-1,2-Dichloroethene	60.5		0.0933	0.500	1	01/28/2019 18:55	WG1229442
trans-1,2-Dichloroethene	0.194	J U	0.152	0.500	1	01/25/2019 22:31	WG1228529
1,2-Dichloropropane	0.756		0.190	0.500	1	01/25/2019 22:31	WG1228529
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 22:31	WG1228529
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 22:31	WG1228529
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 22:31	WG1228529
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 22:31	WG1228529
trans-1,4-Dichloro-2-butene	U	UJ JO	0.257	5.00	1	01/28/2019 18:55	WG1229442
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 22:31	WG1228529
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 22:31	WG1228529
Ethylbenzene	U		0.158	0.500	1	01/25/2019 22:31	WG1228529
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 22:31	WG1228529
2-Hexanone	U		0.757	5.00	1	01/25/2019 22:31	WG1228529
n-Hexane	U		0.305	5.00	1	01/25/2019 22:31	WG1228529
Iodomethane	U		0.377	10.0	1	01/25/2019 22:31	WG1228529
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 22:31	WG1228529
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 22:31	WG1228529
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 22:31	WG1228529
Methylene Chloride	U		1.07	2.50	1	01/25/2019 22:31	WG1228529
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 22:31	WG1228529
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 22:31	WG1228529
Naphthalene	U		0.174	2.50	1	01/25/2019 22:31	WG1228529
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 22:31	WG1228529
Styrene	U		0.117	0.500	1	01/25/2019 22:31	WG1228529
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 22:31	WG1228529
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 22:31	WG1228529
1,1,2-Trichlorotrifluoroethane	0.394	J U	0.164	0.500	1	01/25/2019 22:31	WG1228529
Tetrachloroethene	125		0.199	0.500	1	01/25/2019 22:31	WG1228529
Toluene	U		0.412	0.500	1	01/25/2019 22:31	WG1228529
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 22:31	WG1228529
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 22:31	WG1228529
1,1,1-Trichloroethane	0.255	J U	0.0940	0.500	1	01/25/2019 22:31	WG1228529
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 22:31	WG1228529
Trichloroethene	34.3		0.153	0.500	1	01/25/2019 22:31	WG1228529
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 22:31	WG1228529
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 22:31	WG1228529
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 22:31	WG1228529
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	01/25/2019 22:31	WG1228529
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 22:31	WG1228529

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 2/22/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/25/2019 22:31	<a href="#">WG1228529</a>
Vinyl chloride	1.64		0.118	0.500	1	01/28/2019 18:55	<a href="#">WG1229442</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 22:31	<a href="#">WG1228529</a>
(S) Toluene-d8	100			80.0-120		01/25/2019 22:31	<a href="#">WG1228529</a>
(S) Toluene-d8	107			80.0-120		01/28/2019 18:55	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	92.3			75.0-120		01/25/2019 22:31	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	100			75.0-120		01/28/2019 18:55	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 22:31	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	99.3			80.0-120		01/28/2019 18:55	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	95.1			77.0-126		01/25/2019 22:31	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	91.7			77.0-126		01/28/2019 18:55	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/22/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/27/2019 21:01	<a href="#">WG1229109</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/27/2019 21:01	<a href="#">WG1229109</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Acrylonitrile	U		0.873	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Benzene	U		0.0896	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromobenzene	U		0.133	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromodichloromethane	U		0.0800	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromochloromethane	U		0.145	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromoform	U		0.186	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Bromomethane	U		0.157	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
n-Butylbenzene	U		0.143	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
sec-Butylbenzene	U		0.134	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
tert-Butylbenzene	U		0.183	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Carbon disulfide	U		0.101	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Carbon tetrachloride	U		0.159	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chlorobenzene	U		0.140	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chlorodibromomethane	U		0.128	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chloroethane	U		0.141	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chloroform	U		0.0860	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Chloromethane	U		0.153	1.25	1	01/25/2019 17:39	<a href="#">WG1228529</a>
2-Chlorotoluene	U		0.111	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Dibromomethane	U		0.117	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
trans-1,4-Dichloro-2-butene	U	<b>UJ</b> <u>JO</u>	0.257	5.00	1	01/28/2019 17:52	<a href="#">WG1229442</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Ethylbenzene	U		0.158	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
2-Hexanone	U		0.757	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
n-Hexane	U		0.305	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Iodomethane	U		0.377	10.0	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Isopropylbenzene	U		0.126	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Naphthalene	U		0.174	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
n-Propylbenzene	U		0.162	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Styrene	U		0.117	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Tetrachloroethene	U		0.199	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Toluene	0.561		0.412	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Trichloroethene	U		0.153	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
1,2,3-Trimethylbenzene	U	UJ	<a href="#">JO J4</a>	0.0739	0.500	01/25/2019 17:39	<a href="#">WG1228529</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Vinyl acetate	U		0.645	5.00	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Vinyl chloride	U		0.118	0.500	1	01/25/2019 17:39	<a href="#">WG1228529</a>
Xylenes, Total	U		0.316	1.50	1	01/25/2019 17:39	<a href="#">WG1228529</a>
(S) Toluene-d8	99.5			80.0-120		01/25/2019 17:39	<a href="#">WG1228529</a>
(S) Toluene-d8	105			80.0-120		01/28/2019 17:52	<a href="#">WG1229442</a>
(S) Dibromofluoromethane	91.2			75.0-120		01/25/2019 17:39	<a href="#">WG1228529</a>
(S) Dibromofluoromethane	100			75.0-120		01/28/2019 17:52	<a href="#">WG1229442</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/25/2019 17:39	<a href="#">WG1228529</a>
(S) a,a,a-Trifluorotoluene	99.6			80.0-120		01/28/2019 17:52	<a href="#">WG1229442</a>
(S) 4-Bromofluorobenzene	93.3			77.0-126		01/25/2019 17:39	<a href="#">WG1228529</a>
(S) 4-Bromofluorobenzene	91.3			77.0-126		01/28/2019 17:52	<a href="#">WG1229442</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/22/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	01/28/2019 15:44	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 15:44	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 15:44	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 15:44	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 15:44	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 15:44	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 15:44	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 15:44	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 15:44	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 15:44	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 15:44	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 15:44	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 15:44	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 15:44	WG1229314
cis-1,2-Dichloroethene	5.08		0.0933	0.500	1	01/28/2019 15:44	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 15:44	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 15:44	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 15:44	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 15:44	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 15:44	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 15:44	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 15:44	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 15:44	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 15:44	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 15:44	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 15:44	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 15:44	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 15:44	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 15:44	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 15:44	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 15:44	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 15:44	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 15:44	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 15:44	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 15:44	WG1229314
Naphthalene	U		0.174	2.50	1	01/29/2019 01:19	WG1229488
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 15:44	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 15:44	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 15:44	WG1229314
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	01/28/2019 15:44	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 15:44	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 15:44	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 15:44	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 15:44	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 15:44	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 15:44	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 15:44	WG1229314
Trichloroethene	0.263	J U	0.153	0.500	1	01/28/2019 15:44	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 15:44	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 15:44	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 15:44	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 15:44	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 15:44	WG1229314

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	01/28/2019 17:00	<a href="#">WG1229419</a>
Vinyl chloride	U		0.118	0.500	1	01/28/2019 15:44	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 15:44	<a href="#">WG1229314</a>
(S) Toluene-d8	106			80.0-120		01/28/2019 15:44	<a href="#">WG1229314</a>
(S) Toluene-d8	114			80.0-120		01/28/2019 17:00	<a href="#">WG1229419</a>
(S) Toluene-d8	106			80.0-120		01/29/2019 01:19	<a href="#">WG1229488</a>
(S) Dibromofluoromethane	98.4			75.0-120		01/28/2019 15:44	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	102			75.0-120		01/28/2019 17:00	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	97.7			75.0-120		01/29/2019 01:19	<a href="#">WG1229488</a>
(S) a,a,a-Trifluorotoluene	106			80.0-120		01/28/2019 15:44	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/28/2019 17:00	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	106			80.0-120		01/29/2019 01:19	<a href="#">WG1229488</a>
(S) 4-Bromofluorobenzene	89.1			77.0-126		01/28/2019 15:44	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	105			77.0-126		01/28/2019 17:00	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	88.9			77.0-126		01/29/2019 01:19	<a href="#">WG1229488</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19





Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	7640		2.87	6.78	10	01/29/2019 14:16	<a href="#">WG1229545</a>
Ethane	25.4		0.296	1.29	1	01/29/2019 11:23	<a href="#">WG1229545</a>
Ethene	8.27		0.422	1.27	1	01/29/2019 11:23	<a href="#">WG1229545</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Benzene	0.142	J J	0.0896	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chlorobenzene	U		0.140	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chloroethane	U		0.141	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chloroform	U		0.0860	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Chloromethane	U		0.153	1.25	1	01/28/2019 16:04	<a href="#">WG1229314</a>
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Dibromomethane	U		0.117	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1-Dichloroethene	0.310	J J	0.188	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
cis-1,2-Dichloroethene	12.5		0.0933	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Ethylbenzene	U		0.158	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
2-Hexanone	U		0.757	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
n-Hexane	U		0.305	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Iodomethane	U		0.377	10.0	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Naphthalene	U		0.174	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Styrene	U		0.117	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Tetrachloroethene	0.328	J J	0.199	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Toluene	U		0.412	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Trichloroethene	1.07		0.153	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Vinyl acetate	U	UJ JO	0.645	5.00	1	01/28/2019 17:19	<a href="#">WG1229419</a>
Vinyl chloride	9.14		0.118	0.500	1	01/28/2019 16:04	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 16:04	<a href="#">WG1229314</a>
(S) Toluene-d8	104			80.0-120		01/28/2019 16:04	<a href="#">WG1229314</a>
(S) Toluene-d8	113			80.0-120		01/28/2019 17:19	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	99.7			75.0-120		01/28/2019 16:04	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	101			75.0-120		01/28/2019 17:19	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/28/2019 16:04	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	107			80.0-120		01/28/2019 17:19	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	87.0			77.0-126		01/28/2019 16:04	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	106			77.0-126		01/28/2019 17:19	<a href="#">WG1229419</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	876000		2710	20000	1	01/28/2019 14:45	<a href="#">WG1228505</a>

Sample Narrative:

L1064711-03 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	91000		51.9	1000	1	01/29/2019 11:41	<a href="#">WG1229560</a>
Nitrate	66.5	J T8	22.7	100	1	01/29/2019 11:41	<a href="#">WG1229560</a>
Sulfate	U		77.4	5000	1	01/29/2019 11:41	<a href="#">WG1229560</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	33700		510	5000	5	01/28/2019 23:04	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	20800		15.0	100	1	01/28/2019 22:36	<a href="#">WG1229218</a>
Manganese	3710		0.250	5.00	1	01/28/2019 22:36	<a href="#">WG1229218</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	37.4	J J	31.6	100	1	01/28/2019 16:05	<a href="#">WG1229391</a>
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		01/28/2019 16:05	<a href="#">WG1229391</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	11300		2.87	6.78	10	01/29/2019 14:20	<a href="#">WG1229545</a>
Ethane	0.670	J J	0.296	1.29	1	01/29/2019 11:29	<a href="#">WG1229545</a>
Ethene	U		0.422	1.27	1	01/29/2019 11:29	<a href="#">WG1229545</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Benzene	0.133	J J	0.0896	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 16:24	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/28/2019 16:24	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 16:24	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 16:24	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 16:24	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 16:24	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 16:24	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 16:24	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 16:24	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 16:24	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 16:24	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 16:24	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 16:24	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 16:24	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 16:24	WG1229314
cis-1,2-Dichloroethene	1.83		0.0933	0.500	1	01/28/2019 16:24	WG1229314
trans-1,2-Dichloroethene	0.263	J U	0.152	0.500	1	01/28/2019 16:24	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 16:24	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 16:24	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 16:24	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 16:24	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 16:24	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 16:24	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 16:24	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 16:24	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 16:24	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 16:24	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 16:24	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 16:24	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 16:24	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 16:24	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 16:24	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 16:24	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 16:24	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 16:24	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 16:24	WG1229314
Naphthalene	U		0.174	2.50	1	01/29/2019 01:39	WG1229488
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 16:24	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 16:24	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 16:24	WG1229314
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	01/28/2019 16:24	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 16:24	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 16:24	WG1229314
Toluene	2.09		0.412	0.500	1	01/28/2019 16:24	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 16:24	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 16:24	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 16:24	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 16:24	WG1229314
Trichloroethene	U		0.153	0.500	1	01/28/2019 16:24	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 16:24	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 16:24	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 16:24	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 16:24	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 16:24	WG1229314

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/28/2019 17:39	<a href="#">WG1229419</a>
Vinyl chloride	2.01		0.118	0.500	1	01/28/2019 16:24	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 16:24	<a href="#">WG1229314</a>
(S) Toluene-d8	110			80.0-120		01/28/2019 16:24	<a href="#">WG1229314</a>
(S) Toluene-d8	111			80.0-120		01/28/2019 17:39	<a href="#">WG1229419</a>
(S) Toluene-d8	107			80.0-120		01/29/2019 01:39	<a href="#">WG1229488</a>
(S) Dibromofluoromethane	98.4			75.0-120		01/28/2019 16:24	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	99.5			75.0-120		01/28/2019 17:39	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	99.7			75.0-120		01/29/2019 01:39	<a href="#">WG1229488</a>
(S) a,a,a-Trifluorotoluene	102			80.0-120		01/28/2019 16:24	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	109			80.0-120		01/28/2019 17:39	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	106			80.0-120		01/29/2019 01:39	<a href="#">WG1229488</a>
(S) 4-Bromofluorobenzene	87.3			77.0-126		01/28/2019 16:24	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	104			77.0-126		01/28/2019 17:39	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	85.3			77.0-126		01/29/2019 01:39	<a href="#">WG1229488</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	282000		2710	20000	1	01/28/2019 14:53	<a href="#">WG1228505</a>

Sample Narrative:

L1064711-04 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	25500		51.9	1000	1	01/29/2019 12:03	<a href="#">WG1229560</a>
Nitrate	U	UJ T8	22.7	100	1	01/29/2019 12:03	<a href="#">WG1229560</a>
Sulfate	13400		77.4	5000	1	01/29/2019 12:03	<a href="#">WG1229560</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	4520		102	1000	1	01/28/2019 23:17	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	7340		15.0	100	1	01/28/2019 22:40	<a href="#">WG1229218</a>
Manganese	784		0.250	5.00	1	01/28/2019 22:40	<a href="#">WG1229218</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/28/2019 16:27	<a href="#">WG1229391</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		01/28/2019 16:27	<a href="#">WG1229391</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	69.0		0.287	0.678	1	01/29/2019 11:34	<a href="#">WG1229545</a>
Ethane	U		0.296	1.29	1	01/29/2019 11:34	<a href="#">WG1229545</a>
Ethene	U		0.422	1.27	1	01/29/2019 11:34	<a href="#">WG1229545</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Benzene	U		0.0896	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 16:44	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>

JC 3/11/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/25/19 12:10

L1064711

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/28/2019 16:44	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 16:44	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 16:44	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 16:44	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 16:44	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 16:44	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 16:44	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 16:44	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 16:44	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 16:44	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 16:44	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 16:44	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 16:44	WG1229314
1,1-Dichloroethene	0.489	J U	0.188	0.500	1	01/28/2019 16:44	WG1229314
cis-1,2-Dichloroethene	1.26		0.0933	0.500	1	01/28/2019 16:44	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 16:44	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 16:44	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 16:44	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 16:44	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 16:44	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 16:44	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 16:44	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 16:44	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 16:44	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 16:44	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 16:44	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 16:44	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 16:44	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 16:44	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 16:44	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 16:44	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 16:44	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 16:44	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 16:44	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 16:44	WG1229314
Naphthalene	U		0.174	2.50	1	01/28/2019 16:44	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 16:44	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 16:44	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 16:44	WG1229314
1,1,2,2-Tetrachloroethane	U	UJ UO	0.130	0.500	1	01/28/2019 16:44	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 16:44	WG1229314
Tetrachloroethene	0.472	J U	0.199	0.500	1	01/28/2019 16:44	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 16:44	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 16:44	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 16:44	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 16:44	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 16:44	WG1229314
Trichloroethene	1.66		0.153	0.500	1	01/28/2019 16:44	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 16:44	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 16:44	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 16:44	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 16:44	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 16:44	WG1229314

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	01/28/2019 17:58	<a href="#">WG1229419</a>
Vinyl chloride	U		0.118	0.500	1	01/28/2019 16:44	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 16:44	<a href="#">WG1229314</a>
(S) Toluene-d8	106			80.0-120		01/28/2019 16:44	<a href="#">WG1229314</a>
(S) Toluene-d8	111			80.0-120		01/28/2019 17:58	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	98.5			75.0-120		01/28/2019 16:44	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	102			75.0-120		01/28/2019 17:58	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	104			80.0-120		01/28/2019 16:44	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/28/2019 17:58	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	89.0			77.0-126		01/28/2019 16:44	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	104			77.0-126		01/28/2019 17:58	<a href="#">WG1229419</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	235000		2710	20000	1	01/28/2019 15:01	<a href="#">WG1228505</a>

Sample Narrative:

L1064711-05 WG1228505: Endpoint pH 4.5

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	31700		51.9	1000	1	01/29/2019 12:14	<a href="#">WG1229560</a>
Nitrate	U	UJ T8	22.7	100	1	01/29/2019 12:14	<a href="#">WG1229560</a>
Sulfate	56900		77.4	5000	1	01/29/2019 12:14	<a href="#">WG1229560</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	7930		204	2000	2	01/28/2019 23:29	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	11100		15.0	100	1	01/28/2019 22:45	<a href="#">WG1229218</a>
Manganese	552		0.250	5.00	1	01/28/2019 22:45	<a href="#">WG1229218</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/28/2019 16:49	<a href="#">WG1229391</a>
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		01/28/2019 16:49	<a href="#">WG1229391</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	291		0.287	0.678	1	01/29/2019 11:36	<a href="#">WG1229545</a>
Ethane	2.43		0.296	1.29	1	01/29/2019 11:36	<a href="#">WG1229545</a>
Ethene	3.41		0.422	1.27	1	01/29/2019 11:36	<a href="#">WG1229545</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Acrylonitrile	U		0.873	5.00	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Benzene	U		0.0896	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromobenzene	U		0.133	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromochloromethane	U		0.145	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromoform	U		0.186	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Bromomethane	U		0.157	2.50	1	01/28/2019 17:04	<a href="#">WG1229314</a>
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Carbon disulfide	U		0.101	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Collected date/time: 01/25/19 13:55

L1064711

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/28/2019 17:04	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 17:04	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 17:04	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 17:04	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 17:04	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 17:04	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 17:04	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 17:04	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 17:04	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 17:04	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 17:04	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 17:04	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 17:04	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 17:04	WG1229314
cis-1,2-Dichloroethene	0.459	J U	0.0933	0.500	1	01/28/2019 17:04	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 17:04	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 17:04	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 17:04	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 17:04	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 17:04	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 17:04	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 17:04	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 17:04	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 17:04	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 17:04	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 17:04	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 17:04	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 17:04	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 17:04	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 17:04	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 17:04	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 17:04	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 17:04	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 17:04	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 17:04	WG1229314
Naphthalene	U		0.174	2.50	1	01/28/2019 17:04	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 17:04	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 17:04	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 17:04	WG1229314
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	01/28/2019 17:04	WG1229314
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 17:04	WG1229314
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 17:04	WG1229314
Toluene	U		0.412	0.500	1	01/28/2019 17:04	WG1229314
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 17:04	WG1229314
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 17:04	WG1229314
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 17:04	WG1229314
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 17:04	WG1229314
Trichloroethene	0.587		0.153	0.500	1	01/28/2019 17:04	WG1229314
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 17:04	WG1229314
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 17:04	WG1229314
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 17:04	WG1229314
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 17:04	WG1229314
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 17:04	WG1229314

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U	UJ JO	0.645	5.00	1	01/28/2019 18:18	<a href="#">WG1229419</a>
Vinyl chloride	5.46		0.118	0.500	1	01/28/2019 17:04	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 17:04	<a href="#">WG1229314</a>
(S) Toluene-d8	107			80.0-120		01/28/2019 17:04	<a href="#">WG1229314</a>
(S) Toluene-d8	113			80.0-120		01/28/2019 18:18	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	98.5			75.0-120		01/28/2019 17:04	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	103			75.0-120		01/28/2019 18:18	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	104			80.0-120		01/28/2019 17:04	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	108			80.0-120		01/28/2019 18:18	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	85.2			77.0-126		01/28/2019 17:04	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	105			77.0-126		01/28/2019 18:18	<a href="#">WG1229419</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	6.08	J	1.05	25.0	1	01/28/2019 14:03	WG1229314
Acrylonitrile	U		0.873	5.00	1	01/28/2019 14:03	WG1229314
Benzene	U		0.0896	0.500	1	01/28/2019 14:03	WG1229314
Bromobenzene	U		0.133	0.500	1	01/28/2019 14:03	WG1229314
Bromodichloromethane	U		0.0800	0.500	1	01/28/2019 14:03	WG1229314
Bromochloromethane	U		0.145	0.500	1	01/28/2019 14:03	WG1229314
Bromoform	U		0.186	0.500	1	01/28/2019 14:03	WG1229314
Bromomethane	U		0.157	2.50	1	01/28/2019 14:03	WG1229314
n-Butylbenzene	U		0.143	0.500	1	01/28/2019 14:03	WG1229314
sec-Butylbenzene	U		0.134	0.500	1	01/28/2019 14:03	WG1229314
tert-Butylbenzene	U		0.183	0.500	1	01/28/2019 14:03	WG1229314
Carbon disulfide	U		0.101	0.500	1	01/28/2019 14:03	WG1229314
Carbon tetrachloride	U		0.159	0.500	1	01/28/2019 14:03	WG1229314
Chlorobenzene	U		0.140	0.500	1	01/28/2019 14:03	WG1229314
Chlorodibromomethane	U		0.128	0.500	1	01/28/2019 14:03	WG1229314
Chloroethane	U		0.141	2.50	1	01/28/2019 14:03	WG1229314
Chloroform	U		0.0860	0.500	1	01/28/2019 14:03	WG1229314
Chloromethane	U		0.153	1.25	1	01/28/2019 14:03	WG1229314
2-Chlorotoluene	U		0.111	0.500	1	01/28/2019 14:03	WG1229314
4-Chlorotoluene	U		0.0972	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/28/2019 14:03	WG1229314
1,2-Dibromoethane	U		0.193	0.500	1	01/28/2019 14:03	WG1229314
Dibromomethane	U		0.117	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichlorobenzene	U		0.101	0.500	1	01/28/2019 14:03	WG1229314
1,3-Dichlorobenzene	U		0.130	0.500	1	01/28/2019 14:03	WG1229314
1,4-Dichlorobenzene	U		0.121	0.500	1	01/28/2019 14:03	WG1229314
Dichlorodifluoromethane	U		0.127	2.50	1	01/28/2019 14:03	WG1229314
1,1-Dichloroethane	U		0.114	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichloroethane	U		0.108	0.500	1	01/28/2019 14:03	WG1229314
1,1-Dichloroethene	U		0.188	0.500	1	01/28/2019 14:03	WG1229314
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/28/2019 14:03	WG1229314
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/28/2019 14:03	WG1229314
1,2-Dichloropropane	U		0.190	0.500	1	01/28/2019 14:03	WG1229314
1,1-Dichloropropene	U		0.128	0.500	1	01/28/2019 14:03	WG1229314
1,3-Dichloropropane	U		0.147	1.00	1	01/28/2019 14:03	WG1229314
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/28/2019 14:03	WG1229314
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/28/2019 14:03	WG1229314
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/28/2019 14:03	WG1229314
2,2-Dichloropropane	U		0.0929	0.500	1	01/28/2019 14:03	WG1229314
Di-isopropyl ether	U		0.0924	0.500	1	01/28/2019 14:03	WG1229314
Ethylbenzene	U		0.158	0.500	1	01/28/2019 14:03	WG1229314
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/28/2019 14:03	WG1229314
2-Hexanone	U		0.757	5.00	1	01/28/2019 14:03	WG1229314
n-Hexane	U		0.305	5.00	1	01/28/2019 14:03	WG1229314
Iodomethane	U		0.377	10.0	1	01/28/2019 14:03	WG1229314
Isopropylbenzene	U		0.126	0.500	1	01/28/2019 14:03	WG1229314
p-Isopropyltoluene	U		0.138	0.500	1	01/28/2019 14:03	WG1229314
2-Butanone (MEK)	U		1.28	5.00	1	01/28/2019 14:03	WG1229314
Methylene Chloride	U		1.07	2.50	1	01/28/2019 14:03	WG1229314
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/28/2019 14:03	WG1229314
Methyl tert-butyl ether	U		0.102	0.500	1	01/28/2019 14:03	WG1229314
Naphthalene	0.485	J	0.174	2.50	1	01/28/2019 14:03	WG1229314
n-Propylbenzene	U		0.162	0.500	1	01/28/2019 14:03	WG1229314
Styrene	U		0.117	0.500	1	01/28/2019 14:03	WG1229314
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/28/2019 14:03	WG1229314
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	01/28/2019 14:03	WG1229314

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Tetrachloroethene	U		0.199	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Toluene	U		0.412	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Trichloroethene	U		0.153	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Vinyl acetate	U	UJ JO	0.645	5.00	1	01/28/2019 16:40	<a href="#">WG1229419</a>
Vinyl chloride	U		0.118	0.500	1	01/28/2019 14:03	<a href="#">WG1229314</a>
Xylenes, Total	U		0.316	1.50	1	01/28/2019 14:03	<a href="#">WG1229314</a>
(S) Toluene-d8	104			80.0-120		01/28/2019 14:03	<a href="#">WG1229314</a>
(S) Toluene-d8	112			80.0-120		01/28/2019 16:40	<a href="#">WG1229419</a>
(S) Dibromofluoromethane	97.0			75.0-120		01/28/2019 14:03	<a href="#">WG1229314</a>
(S) Dibromofluoromethane	101			75.0-120		01/28/2019 16:40	<a href="#">WG1229419</a>
(S) a,a,a-Trifluorotoluene	105			80.0-120		01/28/2019 14:03	<a href="#">WG1229314</a>
(S) a,a,a-Trifluorotoluene	107			80.0-120		01/28/2019 16:40	<a href="#">WG1229419</a>
(S) 4-Bromofluorobenzene	87.6			77.0-126		01/28/2019 14:03	<a href="#">WG1229314</a>
(S) 4-Bromofluorobenzene	105			77.0-126		01/28/2019 16:40	<a href="#">WG1229419</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	784000		2710	20000	1	01/31/2019 16:36	<a href="#">WG1230371</a>

Sample Narrative:

L1064837-01 WG1230371: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	10100		51.9	1000	1	01/29/2019 15:02	<a href="#">WG1229612</a>
Nitrate	U		22.7	100	1	01/29/2019 15:02	<a href="#">WG1229612</a>
Sulfate	U		77.4	5000	1	01/29/2019 15:02	<a href="#">WG1229612</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	27700		102	1000	1	01/29/2019 13:16	<a href="#">WG1229541</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2870		15.0	100	1	01/30/2019 13:36	<a href="#">WG1230036</a>
Manganese	2370		0.250	5.00	1	01/30/2019 13:36	<a href="#">WG1230036</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 06:52	<a href="#">WG1230033</a>
(S) a,a,a-Trifluorotoluene(FID)	90.1			78.0-120		01/30/2019 06:52	<a href="#">WG1230033</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	3530		0.287	0.678	1	01/31/2019 13:29	<a href="#">WG1230299</a>
Ethane	17.7		0.296	1.29	1	01/31/2019 13:29	<a href="#">WG1230299</a>
Ethene	U		0.422	1.27	1	01/31/2019 13:29	<a href="#">WG1230299</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	6.98	U	1.05	25.0	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Acrylonitrile	U		0.873	5.00	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Benzene	0.442	J	0.0896	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Bromobenzene	U		0.133	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Bromochloromethane	U		0.145	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Bromoform	U		0.186	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Bromomethane	U		0.157	2.50	1	01/29/2019 17:20	<a href="#">WG1229700</a>
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Carbon disulfide	U		0.101	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/20/19



Collected date/time: 01/28/19 10:50

L1064837

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 17:20	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 17:20	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 17:20	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 17:20	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 17:20	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 17:20	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 17:20	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 17:20	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 17:20	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 17:20	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 17:20	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 17:20	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 17:20	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 17:20	WG1229700
cis-1,2-Dichloroethene	5.62		0.0933	0.500	1	01/29/2019 17:20	WG1229700
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 17:20	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 17:20	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 17:20	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 17:20	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 17:20	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 17:20	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 17:20	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 17:20	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 17:20	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 17:20	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 17:20	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 17:20	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 17:20	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 17:20	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 17:20	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 17:20	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 17:20	WG1229700
Methylene Chloride	U		1.07	2.50	1	01/29/2019 17:20	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 17:20	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 17:20	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 17:20	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 17:20	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 17:20	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 17:20	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 17:20	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 17:20	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 17:20	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 17:20	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 17:20	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 17:20	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 17:20	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 17:20	WG1229700
Trichloroethene	U		0.153	0.500	1	01/29/2019 17:20	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 17:20	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 17:20	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 17:20	WG1229700
1,2,3-Trimethylbenzene	U	<b>UJ</b>	<u>JO</u>	0.0739	0.500	1	01/29/2019 17:20
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 17:20	WG1229700

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/20/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Vinyl chloride	3.45		0.118	0.500	1	01/29/2019 17:20	<a href="#">WG1229700</a>
Xylenes, Total	U		0.316	1.50	1	01/29/2019 17:20	<a href="#">WG1229700</a>
<i>(S) Toluene-d8</i>	105			80.0-120		01/29/2019 17:20	<a href="#">WG1229700</a>
<i>(S) Dibromofluoromethane</i>	98.9			75.0-120		01/29/2019 17:20	<a href="#">WG1229700</a>
<i>(S) 4-Bromofluorobenzene</i>	86.8			77.0-126		01/29/2019 17:20	<a href="#">WG1229700</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/20/19





Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	779000		2710	20000	1	01/31/2019 16:43	<a href="#">WG1230371</a>

Sample Narrative:

L1064837-02 WG1230371: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	10200		51.9	1000	1	01/29/2019 15:33	<a href="#">WG1229612</a>
Nitrate	U		22.7	100	1	01/29/2019 15:33	<a href="#">WG1229612</a>
Sulfate	U		77.4	5000	1	01/29/2019 15:33	<a href="#">WG1229612</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	28300		102	1000	1	01/29/2019 13:37	<a href="#">WG1229541</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2660		15.0	100	1	01/30/2019 13:41	<a href="#">WG1230036</a>
Manganese	2460		0.250	5.00	1	01/30/2019 13:41	<a href="#">WG1230036</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 07:15	<a href="#">WG1230033</a>
(S) a,a,a-Trifluorotoluene(FID)	90.4			78.0-120		01/30/2019 07:15	<a href="#">WG1230033</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	3490		0.287	0.678	1	01/31/2019 13:33	<a href="#">WG1230299</a>
Ethane	18.5		0.296	1.29	1	01/31/2019 13:33	<a href="#">WG1230299</a>
Ethene	U		0.422	1.27	1	01/31/2019 13:33	<a href="#">WG1230299</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	8.44	U	1.05	25.0	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Acrylonitrile	U		0.873	5.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Benzene	0.410	J	0.0896	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Bromobenzene	U		0.133	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Bromochloromethane	U		0.145	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Bromoform	U		0.186	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Bromomethane	U		0.157	2.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Carbon disulfide	U		0.101	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Chloroethane	U		0.141	2.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Chloroform	U		0.0860	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Chloromethane	U		0.153	1.25	1	01/29/2019 17:40	<a href="#">WG1229700</a>
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Dibromomethane	U		0.117	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
cis-1,2-Dichloroethene	5.67		0.0933	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Ethylbenzene	U		0.158	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
2-Hexanone	U		0.757	5.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
n-Hexane	U		0.305	5.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Iodomethane	U		0.377	10.0	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Methylene Chloride	U		1.07	2.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Naphthalene	U		0.174	2.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Styrene	U		0.117	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Toluene	U		0.412	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Trichloroethene	0.208	J U	0.153	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,2,3-Trimethylbenzene	U	UJ JO	0.0739	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Vinyl chloride	3.38		0.118	0.500	1	01/29/2019 17:40	<a href="#">WG1229700</a>
Xylenes, Total	U		0.316	1.50	1	01/29/2019 17:40	<a href="#">WG1229700</a>
<i>(S) Toluene-d8</i>	105			80.0-120		01/29/2019 17:40	<a href="#">WG1229700</a>
<i>(S) Dibromofluoromethane</i>	99.4			75.0-120		01/29/2019 17:40	<a href="#">WG1229700</a>
<i>(S) 4-Bromofluorobenzene</i>	85.7			77.0-126		01/29/2019 17:40	<a href="#">WG1229700</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/20/19



## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	735000		2710	20000	1	01/31/2019 16:58	<a href="#">WG1230371</a>

## Sample Narrative:

L1064837-03 WG1230371: Endpoint pH 4.5 HEADSPACE

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	149000		260	5000	5	01/29/2019 16:05	<a href="#">WG1229612</a>
Nitrate	U		22.7	100	1	01/29/2019 15:49	<a href="#">WG1229612</a>
Sulfate	U		77.4	5000	1	01/29/2019 15:49	<a href="#">WG1229612</a>

## Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	15100		102	1000	1	01/29/2019 13:53	<a href="#">WG1229541</a>

## Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	1980		15.0	100	1	01/30/2019 13:45	<a href="#">WG1230036</a>
Manganese	1660		0.250	5.00	1	01/30/2019 13:45	<a href="#">WG1230036</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 07:38	<a href="#">WG1230033</a>
(S) a,a,a-Trifluorotoluene(FID)	90.3			78.0-120		01/30/2019 07:38	<a href="#">WG1230033</a>

## Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	13700		2.87	6.78	10	01/31/2019 15:08	<a href="#">WG1230299</a>
Ethane	495		0.296	1.29	1	01/31/2019 13:36	<a href="#">WG1230299</a>
Ethene	1140		0.422	1.27	1	01/31/2019 13:36	<a href="#">WG1230299</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Benzene	U		0.0896	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Bromoform	U		0.186	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Bromomethane	U		0.157	2.50	1	01/29/2019 18:00	<a href="#">WG1229700</a>
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Carbon disulfide	0.716		0.101	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>

JC 2/20/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:00	WG1229700
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:00	WG1229700
Chloroethane	U		0.141	2.50	1	01/29/2019 18:00	WG1229700
Chloroform	U		0.0860	0.500	1	01/29/2019 18:00	WG1229700
Chloromethane	U		0.153	1.25	1	01/29/2019 18:00	WG1229700
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:00	WG1229700
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:00	WG1229700
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:00	WG1229700
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:00	WG1229700
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:00	WG1229700
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:00	WG1229700
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:00	WG1229700
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:00	WG1229700
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:00	WG1229700
cis-1,2-Dichloroethene	10.4		0.0933	0.500	1	01/29/2019 18:00	WG1229700
trans-1,2-Dichloroethene	0.489	J U	0.152	0.500	1	01/29/2019 18:00	WG1229700
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:00	WG1229700
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:00	WG1229700
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:00	WG1229700
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:00	WG1229700
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:00	WG1229700
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:00	WG1229700
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:00	WG1229700
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:00	WG1229700
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:00	WG1229700
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:00	WG1229700
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:00	WG1229700
n-Hexane	U		0.305	5.00	1	01/29/2019 18:00	WG1229700
Iodomethane	U		0.377	10.0	1	01/29/2019 18:00	WG1229700
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:00	WG1229700
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:00	WG1229700
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:00	WG1229700
Methylene Chloride	U		1.07	2.50	1	01/29/2019 18:00	WG1229700
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:00	WG1229700
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:00	WG1229700
Naphthalene	U		0.174	2.50	1	01/29/2019 18:00	WG1229700
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:00	WG1229700
Styrene	U		0.117	0.500	1	01/29/2019 18:00	WG1229700
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:00	WG1229700
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:00	WG1229700
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:00	WG1229700
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:00	WG1229700
Toluene	U		0.412	0.500	1	01/29/2019 18:00	WG1229700
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:00	WG1229700
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:00	WG1229700
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:00	WG1229700
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:00	WG1229700
Trichloroethene	0.251	U	0.153	0.500	1	01/29/2019 18:00	WG1229700
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:00	WG1229700
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:00	WG1229700
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:00	WG1229700
1,2,3-Trimethylbenzene	U	UJ JO	0.0739	0.500	1	01/29/2019 18:00	WG1229700
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:00	WG1229700

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/20/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Vinyl chloride	40.4		0.118	0.500	1	01/29/2019 18:00	<a href="#">WG1229700</a>
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:00	<a href="#">WG1229700</a>
<i>(S) Toluene-d8</i>	108			80.0-120		01/29/2019 18:00	<a href="#">WG1229700</a>
<i>(S) Dibromofluoromethane</i>	96.8			75.0-120		01/29/2019 18:00	<a href="#">WG1229700</a>
<i>(S) 4-Bromofluorobenzene</i>	86.8			77.0-126		01/29/2019 18:00	<a href="#">WG1229700</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/20/19



Collected date/time: 01/28/19 14:00

L1064837

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 08:01	<a href="#">WG1230033</a>
(S) a,a,a-Trifluorotoluene(FID)	90.5			78.0-120		01/30/2019 08:01	<a href="#">WG1230033</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	7.66	U	1.05	25.0	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Benzene	U		0.0896	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Bromoform	U		0.186	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Bromomethane	U		0.157	2.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Carbon disulfide	U		0.101	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Chloroethane	U		0.141	2.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Chloroform	U		0.0860	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Chloromethane	U		0.153	1.25	1	01/29/2019 18:21	<a href="#">WG1229700</a>
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>
n-Hexane	U		0.305	5.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Iodomethane	U		0.377	10.0	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Naphthalene	U		0.174	2.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Styrene	U		0.117	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Toluene	U		0.412	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Trichloroethene	U		0.153	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,2,3-Trimethylbenzene	U	UJ JO	0.0739	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Vinyl chloride	U		0.118	0.500	1	01/29/2019 18:21	<a href="#">WG1229700</a>
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:21	<a href="#">WG1229700</a>
(S) Toluene-d8	110			80.0-120		01/29/2019 18:21	<a href="#">WG1229700</a>
(S) Dibromofluoromethane	97.8			75.0-120		01/29/2019 18:21	<a href="#">WG1229700</a>
(S) 4-Bromofluorobenzene	85.3			77.0-126		01/29/2019 18:21	<a href="#">WG1229700</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/30/2019 08:23	<a href="#">WG1230033</a>
(S) a,a,a-Trifluorotoluene(FID)	90.4			78.0-120		01/30/2019 08:23	<a href="#">WG1230033</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	7.59	U	1.05	25.0	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Acrylonitrile	U		0.873	5.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Benzene	U		0.0896	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Bromobenzene	U		0.133	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Bromochloromethane	U		0.145	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Bromoform	U		0.186	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Bromomethane	U		0.157	2.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Carbon disulfide	U		0.101	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Chlorobenzene	U		0.140	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Chloroethane	U		0.141	2.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Chloroform	U		0.0860	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Chloromethane	U		0.153	1.25	1	01/29/2019 18:41	<a href="#">WG1229700</a>
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Dibromomethane	U		0.117	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
cis-1,2-Dichloroethene	0.609		0.0933	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Ethylbenzene	U		0.158	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>
2-Hexanone	U		0.757	5.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>
n-Hexane	U		0.305	5.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Iodomethane	U		0.377	10.0	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Naphthalene	U		0.174	2.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Styrene	U		0.117	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Toluene	U		0.412	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Trichloroethene	U		0.153	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,2,3-Trimethylbenzene	U	UJ JO	0.0739	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Vinyl acetate	U		0.645	5.00	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Vinyl chloride	32.4		0.118	0.500	1	01/29/2019 18:41	<a href="#">WG1229700</a>
Xylenes, Total	U		0.316	1.50	1	01/29/2019 18:41	<a href="#">WG1229700</a>
(S) Toluene-d8	107			80.0-120		01/29/2019 18:41	<a href="#">WG1229700</a>
(S) Dibromofluoromethane	99.9			75.0-120		01/29/2019 18:41	<a href="#">WG1229700</a>
(S) 4-Bromofluorobenzene	85.3			77.0-126		01/29/2019 18:41	<a href="#">WG1229700</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	53.1	<u>B</u> <u>J</u>	31.6	100	1	01/30/2019 00:20	<a href="#">WG1230033</a>
(S) a,a,a-Trifluorotoluene(FID)	88.7			78.0-120		01/30/2019 00:20	<a href="#">WG1230033</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	11.6	<u>J</u>	1.05	25.0	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Acrylonitrile	U		0.873	5.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Benzene	U		0.0896	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Bromobenzene	U		0.133	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Bromodichloromethane	U		0.0800	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Bromochloromethane	U		0.145	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Bromoform	U		0.186	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Bromomethane	U		0.157	2.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
n-Butylbenzene	U		0.143	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
sec-Butylbenzene	U		0.134	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
tert-Butylbenzene	U		0.183	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Carbon disulfide	U		0.101	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Carbon tetrachloride	U		0.159	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Chlorobenzene	U		0.140	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Chlorodibromomethane	U		0.128	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Chloroethane	U		0.141	2.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Chloroform	U		0.0860	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Chloromethane	U		0.153	1.25	1	01/29/2019 13:58	<a href="#">WG1229700</a>
2-Chlorotoluene	U		0.111	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
4-Chlorotoluene	U		0.0972	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2-Dibromoethane	U		0.193	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Dibromomethane	U		0.117	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Dichlorodifluoromethane	U		0.127	2.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,1-Dichloroethane	U		0.114	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2-Dichloroethane	U		0.108	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,1-Dichloroethene	U		0.188	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2-Dichloropropane	U		0.190	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,1-Dichloropropene	U		0.128	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,3-Dichloropropane	U		0.147	1.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>
2,2-Dichloropropane	U		0.0929	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Di-isopropyl ether	U		0.0924	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Ethylbenzene	U		0.158	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>
2-Hexanone	U		0.757	5.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>
n-Hexane	U		0.305	5.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Iodomethane	U		0.377	10.0	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Isopropylbenzene	U		0.126	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
p-Isopropyltoluene	U		0.138	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
2-Butanone (MEK)	U		1.28	5.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Methyl tert-butyl ether	U		0.102	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Naphthalene	U		0.174	2.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
n-Propylbenzene	U		0.162	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Styrene	U		0.117	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Tetrachloroethene	U		0.199	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Toluene	2.44		0.412	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Trichloroethene	U		0.153	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Trichlorofluoromethane	U		0.130	2.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,2,3-Trimethylbenzene	U	UJ JO	0.0739	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Vinyl acetate	U		0.645	5.00	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Vinyl chloride	U		0.118	0.500	1	01/29/2019 13:58	<a href="#">WG1229700</a>
Xylenes, Total	U		0.316	1.50	1	01/29/2019 13:58	<a href="#">WG1229700</a>
(S) Toluene-d8	109			80.0-120		01/29/2019 13:58	<a href="#">WG1229700</a>
(S) Dibromofluoromethane	96.3			75.0-120		01/29/2019 13:58	<a href="#">WG1229700</a>
(S) 4-Bromofluorobenzene	85.3			77.0-126		01/29/2019 13:58	<a href="#">WG1229700</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/20/19

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Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	43.7	J J	31.6	100	1	01/31/2019 04:19	<a href="#">WG1230592</a>
(S) a,a,a-Trifluorotoluene(FID)	95.1			78.0-120		01/31/2019 04:19	<a href="#">WG1230592</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Benzene	0.182	J J	0.0896	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Carbon disulfide	U		0.101	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Chlorobenzene	U		0.140	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Chloroethane	0.367	J J	0.141	2.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Chloroform	U		0.0860	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Chloromethane	U		0.153	1.25	1	02/01/2019 18:39	<a href="#">WG1231554</a>
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Dibromomethane	U		0.117	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
cis-1,2-Dichloroethene	0.774		0.0933	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Ethylbenzene	U		0.158	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>
2-Hexanone	U		0.757	5.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>
n-Hexane	U		0.305	5.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Iodomethane	U		0.377	10.0	1	02/01/2019 18:39	<a href="#">WG1231554</a> Jc 2/20/19
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
2-Butanone (MEK)	3.81	J JO	1.28	5.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Naphthalene	U	<b>UJ</b> <u>JO</u>	0.174	2.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Styrene	U		0.117	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,1,2,2-Tetrachloroethane	U	<b>UJ</b> <u>JO</u>	0.130	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 13:53	<a href="#">WG1231885</a>
Toluene	0.516	<b>J+</b>	0.412	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2,3-Trichlorobenzene	U	<b>UJ</b> <u>JO</u>	0.164	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Trichloroethene	U		0.153	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,2,3-Trimethylbenzene	U	<b>UJ</b> <u>JO J4</u>	0.0739	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Vinyl acetate	U		0.645	5.00	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Vinyl chloride	0.539		0.118	0.500	1	02/01/2019 18:39	<a href="#">WG1231554</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 18:39	<a href="#">WG1231554</a>
(S) Toluene-d8	104			80.0-120		02/01/2019 18:39	<a href="#">WG1231554</a>
(S) Toluene-d8	100			80.0-120		02/03/2019 13:53	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 18:39	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	85.0			77.0-126		02/01/2019 18:39	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	97.1			77.0-126		02/03/2019 13:53	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		02/03/2019 13:53	<a href="#">WG1231885</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/20/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	255000		2710	20000	1	02/01/2019 16:47	<a href="#">WG1231115</a>

Sample Narrative:

L1065152-02 WG1231115: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	43500		51.9	1000	1	01/30/2019 13:08	<a href="#">WG1230200</a>
Nitrate	219		22.7	100	1	01/30/2019 13:08	<a href="#">WG1230200</a>
Sulfate	55400		77.4	5000	1	01/30/2019 13:08	<a href="#">WG1230200</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4800		102	1000	1	01/31/2019 13:19	<a href="#">WG1230357</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	4850		15.0	100	1	01/30/2019 21:34	<a href="#">WG1230569</a>
Manganese	193		0.250	5.00	1	01/30/2019 21:34	<a href="#">WG1230569</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/31/2019 04:41	<a href="#">WG1230592</a>
(S) a,a,a-Trifluorotoluene(FID)	94.2			78.0-120		01/31/2019 04:41	<a href="#">WG1230592</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	276		0.287	0.678	1	01/31/2019 14:20	<a href="#">WG1230299</a>
Ethane	U		0.296	1.29	1	01/31/2019 14:20	<a href="#">WG1230299</a>
Ethene	U		0.422	1.27	1	01/31/2019 14:20	<a href="#">WG1230299</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Benzene	U		0.0896	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 19:00	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Carbon disulfide	U		0.101	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>

JC 2/20/19

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chlorobenzene	U		0.140	0.500	1	02/01/2019 19:00	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 19:00	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 19:00	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 19:00	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 19:00	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 19:00	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	02/01/2019 19:00	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 19:00	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 19:00	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 19:00	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 19:00	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 19:00	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 19:00	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 19:00	WG1231554
cis-1,2-Dichloroethene	0.316	J J	0.0933	0.500	1	02/01/2019 19:00	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 19:00	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 19:00	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 19:00	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 19:00	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 19:00	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 19:00	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 19:00	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 19:00	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 19:00	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 19:00	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 19:00	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 19:00	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 19:00	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 19:00	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 19:00	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 19:00	WG1231554
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	02/01/2019 19:00	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 19:00	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 19:00	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 19:00	WG1231554
Naphthalene	U	UJ JO	0.174	2.50	1	02/01/2019 19:00	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 19:00	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 19:00	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 19:00	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	02/01/2019 19:00	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 19:00	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 14:14	WG1231885
Toluene	U		0.412	0.500	1	02/01/2019 19:00	WG1231554
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	02/01/2019 19:00	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 19:00	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 19:00	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 19:00	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 19:00	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 19:00	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 19:00	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 19:00	WG1231554
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	02/01/2019 19:00	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 19:00	WG1231554

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/20/19





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Vinyl chloride	0.335	J ↓	0.118	0.500	1	02/01/2019 19:00	<a href="#">WG1231554</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 19:00	<a href="#">WG1231554</a>
(S) Toluene-d8	104			80.0-120		02/01/2019 19:00	<a href="#">WG1231554</a>
(S) Toluene-d8	101			80.0-120		02/03/2019 14:14	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	99.0			75.0-120		02/01/2019 19:00	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 19:00	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	93.5			77.0-126		02/03/2019 14:14	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		02/03/2019 14:14	<a href="#">WG1231885</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/20/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	14400	J+	3160	10000	100	01/31/2019 05:02	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	96.4			78.0-120		01/31/2019 05:02	WG1230592

1 Cp

2 Tc

3 Ss

JC 3/19/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		105	2500	100	02/01/2019 19:20	WG1231554
Acrylonitrile	U		87.3	500	100	02/01/2019 19:20	WG1231554
Benzene	U		8.96	50.0	100	02/01/2019 19:20	WG1231554
Bromobenzene	U		13.3	50.0	100	02/01/2019 19:20	WG1231554
Bromodichloromethane	U		8.00	50.0	100	02/01/2019 19:20	WG1231554
Bromochloromethane	U		14.5	50.0	100	02/01/2019 19:20	WG1231554
Bromoform	U		18.6	50.0	100	02/01/2019 19:20	WG1231554
Bromomethane	U		15.7	250	100	02/01/2019 19:20	WG1231554
n-Butylbenzene	U		14.3	50.0	100	02/01/2019 19:20	WG1231554
sec-Butylbenzene	U		13.4	50.0	100	02/01/2019 19:20	WG1231554
tert-Butylbenzene	U		18.3	50.0	100	02/01/2019 19:20	WG1231554
Carbon disulfide	U		10.1	50.0	100	02/01/2019 19:20	WG1231554
Carbon tetrachloride	U		15.9	50.0	100	02/01/2019 19:20	WG1231554
Chlorobenzene	U		14.0	50.0	100	02/01/2019 19:20	WG1231554
Chlorodibromomethane	U		12.8	50.0	100	02/01/2019 19:20	WG1231554
Chloroethane	U		14.1	250	100	02/01/2019 19:20	WG1231554
Chloroform	U		8.60	50.0	100	02/01/2019 19:20	WG1231554
Chloromethane	U		15.3	125	100	02/01/2019 19:20	WG1231554
2-Chlorotoluene	U		11.1	50.0	100	02/01/2019 19:20	WG1231554
4-Chlorotoluene	U		9.72	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ JO	32.5	250	100	02/01/2019 19:20	WG1231554
1,2-Dibromoethane	U		19.3	50.0	100	02/01/2019 19:20	WG1231554
Dibromomethane	U		11.7	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichlorobenzene	U		10.1	50.0	100	02/01/2019 19:20	WG1231554
1,3-Dichlorobenzene	U		13.0	50.0	100	02/01/2019 19:20	WG1231554
1,4-Dichlorobenzene	U		12.1	50.0	100	02/01/2019 19:20	WG1231554
Dichlorodifluoromethane	U		12.7	250	100	02/01/2019 19:20	WG1231554
1,1-Dichloroethane	U		11.4	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichloroethane	U		10.8	50.0	100	02/01/2019 19:20	WG1231554
1,1-Dichloroethene	U		18.8	50.0	100	02/01/2019 19:20	WG1231554
cis-1,2-Dichloroethene	4350		9.33	50.0	100	02/01/2019 19:20	WG1231554
trans-1,2-Dichloroethene	U		15.2	50.0	100	02/01/2019 19:20	WG1231554
1,2-Dichloropropane	U		19.0	50.0	100	02/01/2019 19:20	WG1231554
1,1-Dichloropropene	U		12.8	50.0	100	02/01/2019 19:20	WG1231554
1,3-Dichloropropane	U		14.7	100	100	02/01/2019 19:20	WG1231554
cis-1,3-Dichloropropene	U		9.76	50.0	100	02/01/2019 19:20	WG1231554
trans-1,3-Dichloropropene	U		22.2	50.0	100	02/01/2019 19:20	WG1231554
trans-1,4-Dichloro-2-butene	U		25.7	500	100	02/01/2019 19:20	WG1231554
2,2-Dichloropropane	U		9.29	50.0	100	02/01/2019 19:20	WG1231554
Di-isopropyl ether	U		9.24	50.0	100	02/01/2019 19:20	WG1231554
Ethylbenzene	U		15.8	50.0	100	02/01/2019 19:20	WG1231554
Hexachloro-1,3-butadiene	U		15.7	100	100	02/01/2019 19:20	WG1231554
2-Hexanone	U		75.7	500	100	02/01/2019 19:20	WG1231554
n-Hexane	U		30.5	500	100	02/01/2019 19:20	WG1231554
Iodomethane	U		37.7	1000	100	02/01/2019 19:20	WG1231554
Isopropylbenzene	U		12.6	50.0	100	02/01/2019 19:20	WG1231554
p-Isopropyltoluene	U		13.8	50.0	100	02/01/2019 19:20	WG1231554
2-Butanone (MEK)	U	UJ JO	128	500	100	02/01/2019 19:20	WG1231554

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/20/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		107	250	100	02/01/2019 19:20	<a href="#">WG1231554</a>
4-Methyl-2-pentanone (MIBK)	U		82.3	500	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Methyl tert-butyl ether	U		10.2	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Naphthalene	U	<b>UJ</b> <u>JO</u>	17.4	250	100	02/01/2019 19:20	<a href="#">WG1231554</a>
n-Propylbenzene	U		16.2	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Styrene	U		11.7	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,1,1,2-Tetrachloroethane	U		12.0	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,1,2,2-Tetrachloroethane	U	<b>UJ</b> <u>JO</u>	13.0	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,1,2-Trichlorotrifluoroethane	U		16.4	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Tetrachloroethene	23700		199	500	1000	02/03/2019 18:06	<a href="#">WG1231885</a>
Toluene	U		41.2	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,2,3-Trichlorobenzene	U	<b>UJ</b> <u>JO</u>	16.4	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,2,4-Trichlorobenzene	U		35.5	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,1,1-Trichloroethane	U		9.40	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,1,2-Trichloroethane	U		18.6	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Trichloroethene	3800		15.3	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Trichlorofluoromethane	U		13.0	250	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,2,3-Trichloropropane	U		24.7	250	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,2,4-Trimethylbenzene	U		12.3	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,2,3-Trimethylbenzene	U	<b>UJ</b> <u>JO J4</u>	7.39	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
1,3,5-Trimethylbenzene	U		12.4	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Vinyl acetate	U		64.5	500	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Vinyl chloride	155		11.8	50.0	100	02/01/2019 19:20	<a href="#">WG1231554</a>
Xylenes, Total	U		31.6	150	100	02/01/2019 19:20	<a href="#">WG1231554</a>
(S) Toluene-d8	105			80.0-120		02/01/2019 19:20	<a href="#">WG1231554</a>
(S) Toluene-d8	101			80.0-120		02/03/2019 18:06	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 19:20	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 19:20	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	98.8			77.0-126		02/03/2019 18:06	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	97.3			70.0-130		02/03/2019 18:06	<a href="#">WG1231885</a>

JC 2/20/19

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Collected date/time: 01/29/19 12:45

L1065152

Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	400000		2710	20000	1	02/01/2019 16:54	<a href="#">WG1231115</a>

Sample Narrative:

L1065152-04 WG1231115: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	58500		51.9	1000	1	01/30/2019 13:24	<a href="#">WG1230200</a>
Nitrate	U		22.7	100	1	01/30/2019 13:24	<a href="#">WG1230200</a>
Sulfate	3120	J J	77.4	5000	1	01/30/2019 13:24	<a href="#">WG1230200</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	7020		102	1000	1	01/31/2019 14:01	<a href="#">WG1230357</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	1600		15.0	100	1	01/30/2019 21:38	<a href="#">WG1230569</a>
Manganese	378		0.250	5.00	1	01/30/2019 21:38	<a href="#">WG1230569</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	01/31/2019 05:24	<a href="#">WG1230592</a>
(S) a,a,a-Trifluorotoluene(FID)	94.0			78.0-120		01/31/2019 05:24	<a href="#">WG1230592</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Methane	8520		2.87	6.78	10	01/31/2019 15:16	<a href="#">WG1230299</a>
Ethane	134		0.296	1.29	1	01/31/2019 14:41	<a href="#">WG1230299</a>
Ethene	U		0.422	1.27	1	01/31/2019 14:41	<a href="#">WG1230299</a>

JC 2/20/19

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Acetone	U		1.05	25.0	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Benzene	0.141	J J	0.0896	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 19:40	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Carbon disulfide	0.226	J J	0.101	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/29/19 12:45

L1065152

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 19:40	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 19:40	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 19:40	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 19:40	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 19:40	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 19:40	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	02/01/2019 19:40	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 19:40	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 19:40	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 19:40	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 19:40	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 19:40	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 19:40	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 19:40	WG1231554
cis-1,2-Dichloroethene	0.241	J J	0.0933	0.500	1	02/01/2019 19:40	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 19:40	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 19:40	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 19:40	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 19:40	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 19:40	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 19:40	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 19:40	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 19:40	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 19:40	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 19:40	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 19:40	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 19:40	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 19:40	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 19:40	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 19:40	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 19:40	WG1231554
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	02/01/2019 19:40	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 19:40	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 19:40	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 19:40	WG1231554
Naphthalene	U	UJ JO	0.174	2.50	1	02/01/2019 19:40	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 19:40	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 19:40	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 19:40	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	02/01/2019 19:40	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 19:40	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/03/2019 14:32	WG1231885
Toluene	U		0.412	0.500	1	02/01/2019 19:40	WG1231554
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	02/01/2019 19:40	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 19:40	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 19:40	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 19:40	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 19:40	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 19:40	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 19:40	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 19:40	WG1231554
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	02/01/2019 19:40	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 19:40	WG1231554

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 2/20/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Vinyl chloride	U		0.118	0.500	1	02/01/2019 19:40	<a href="#">WG1231554</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 19:40	<a href="#">WG1231554</a>
(S) Toluene-d8	103			80.0-120		02/01/2019 19:40	<a href="#">WG1231554</a>
(S) Toluene-d8	99.2			80.0-120		02/03/2019 14:32	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	102			75.0-120		02/01/2019 19:40	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/01/2019 19:40	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	97.9			77.0-126		02/03/2019 14:32	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	94.6			70.0-130		02/03/2019 14:32	<a href="#">WG1231885</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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Collected date/time: 01/29/19 13:05

L1065152

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	11900	J+	3160	10000	100	01/31/2019 05:45	WG1230592
(S) a,a,a-Trifluorotoluene(FID)	96.2			78.0-120		01/31/2019 05:45	WG1230592

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		105	2500	100	02/01/2019 20:00	WG1231554
Acrylonitrile	U		87.3	500	100	02/01/2019 20:00	WG1231554
Benzene	U		8.96	50.0	100	02/01/2019 20:00	WG1231554
Bromobenzene	U		13.3	50.0	100	02/01/2019 20:00	WG1231554
Bromodichloromethane	U		8.00	50.0	100	02/01/2019 20:00	WG1231554
Bromochloromethane	U		14.5	50.0	100	02/01/2019 20:00	WG1231554
Bromoform	U		18.6	50.0	100	02/01/2019 20:00	WG1231554
Bromomethane	U		15.7	250	100	02/01/2019 20:00	WG1231554
n-Butylbenzene	U		14.3	50.0	100	02/01/2019 20:00	WG1231554
sec-Butylbenzene	U		13.4	50.0	100	02/01/2019 20:00	WG1231554
tert-Butylbenzene	U		18.3	50.0	100	02/01/2019 20:00	WG1231554
Carbon disulfide	U		10.1	50.0	100	02/01/2019 20:00	WG1231554
Carbon tetrachloride	U		15.9	50.0	100	02/01/2019 20:00	WG1231554
Chlorobenzene	U		14.0	50.0	100	02/01/2019 20:00	WG1231554
Chlorodibromomethane	U		12.8	50.0	100	02/01/2019 20:00	WG1231554
Chloroethane	U		14.1	250	100	02/01/2019 20:00	WG1231554
Chloroform	U		8.60	50.0	100	02/01/2019 20:00	WG1231554
Chloromethane	U		15.3	125	100	02/01/2019 20:00	WG1231554
2-Chlorotoluene	U		11.1	50.0	100	02/01/2019 20:00	WG1231554
4-Chlorotoluene	U		9.72	50.0	100	02/01/2019 20:00	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ JO	32.5	250	100	02/01/2019 20:00	WG1231554
1,2-Dibromoethane	U		19.3	50.0	100	02/01/2019 20:00	WG1231554
Dibromomethane	U		11.7	50.0	100	02/01/2019 20:00	WG1231554
1,2-Dichlorobenzene	U		10.1	50.0	100	02/01/2019 20:00	WG1231554
1,3-Dichlorobenzene	U		13.0	50.0	100	02/01/2019 20:00	WG1231554
1,4-Dichlorobenzene	U		12.1	50.0	100	02/01/2019 20:00	WG1231554
Dichlorodifluoromethane	U		12.7	250	100	02/01/2019 20:00	WG1231554
1,1-Dichloroethane	U		11.4	50.0	100	02/01/2019 20:00	WG1231554
1,2-Dichloroethane	U		10.8	50.0	100	02/01/2019 20:00	WG1231554
1,1-Dichloroethene	35.9	J J	18.8	50.0	100	02/01/2019 20:00	WG1231554
cis-1,2-Dichloroethene	18100		9.33	50.0	100	02/01/2019 20:00	WG1231554
trans-1,2-Dichloroethene	36.7	J J	15.2	50.0	100	02/01/2019 20:00	WG1231554
1,2-Dichloropropane	U		19.0	50.0	100	02/01/2019 20:00	WG1231554
1,1-Dichloropropene	U		12.8	50.0	100	02/01/2019 20:00	WG1231554
1,3-Dichloropropane	U		14.7	100	100	02/01/2019 20:00	WG1231554
cis-1,3-Dichloropropene	U		9.76	50.0	100	02/01/2019 20:00	WG1231554
trans-1,3-Dichloropropene	U		22.2	50.0	100	02/01/2019 20:00	WG1231554
trans-1,4-Dichloro-2-butene	U		25.7	500	100	02/01/2019 20:00	WG1231554
2,2-Dichloropropane	U		9.29	50.0	100	02/01/2019 20:00	WG1231554
Di-isopropyl ether	U		9.24	50.0	100	02/01/2019 20:00	WG1231554
Ethylbenzene	U		15.8	50.0	100	02/01/2019 20:00	WG1231554
Hexachloro-1,3-butadiene	U		15.7	100	100	02/01/2019 20:00	WG1231554
2-Hexanone	U		75.7	500	100	02/01/2019 20:00	WG1231554
n-Hexane	U		30.5	500	100	02/01/2019 20:00	WG1231554
Iodomethane	U		37.7	1000	100	02/01/2019 20:00	WG1231554
Isopropylbenzene	U		12.6	50.0	100	02/01/2019 20:00	WG1231554
p-Isopropyltoluene	U		13.8	50.0	100	02/01/2019 20:00	WG1231554
2-Butanone (MEK)	U	UJ JO	128	500	100	02/01/2019 20:00	WG1231554

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		107	250	100	02/01/2019 20:00	WG1231554
4-Methyl-2-pentanone (MIBK)	U		82.3	500	100	02/01/2019 20:00	WG1231554
Methyl tert-butyl ether	U		10.2	50.0	100	02/01/2019 20:00	WG1231554
Naphthalene	U	UJ JO	17.4	250	100	02/01/2019 20:00	WG1231554
n-Propylbenzene	U		16.2	50.0	100	02/01/2019 20:00	WG1231554
Styrene	U		11.7	50.0	100	02/01/2019 20:00	WG1231554
1,1,1,2-Tetrachloroethane	U		12.0	50.0	100	02/01/2019 20:00	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ JO	13.0	50.0	100	02/01/2019 20:00	WG1231554
1,1,2-Trichlorotrifluoroethane	U		16.4	50.0	100	02/01/2019 20:00	WG1231554
Tetrachloroethene	303		19.9	50.0	100	02/01/2019 20:00	WG1231554
Toluene	U		41.2	50.0	100	02/01/2019 20:00	WG1231554
1,2,3-Trichlorobenzene	U	UJ JO	16.4	50.0	100	02/01/2019 20:00	WG1231554
1,2,4-Trichlorobenzene	U		35.5	50.0	100	02/01/2019 20:00	WG1231554
1,1,1-Trichloroethane	U		9.40	50.0	100	02/01/2019 20:00	WG1231554
1,1,2-Trichloroethane	U		18.6	50.0	100	02/01/2019 20:00	WG1231554
Trichloroethene	548		15.3	50.0	100	02/01/2019 20:00	WG1231554
Trichlorofluoromethane	U		13.0	250	100	02/01/2019 20:00	WG1231554
1,2,3-Trichloropropane	U		24.7	250	100	02/01/2019 20:00	WG1231554
1,2,4-Trimethylbenzene	U		12.3	50.0	100	02/01/2019 20:00	WG1231554
1,2,3-Trimethylbenzene	U	UJ JO J4	7.39	50.0	100	02/01/2019 20:00	WG1231554
1,3,5-Trimethylbenzene	U		12.4	50.0	100	02/01/2019 20:00	WG1231554
Vinyl acetate	U		64.5	500	100	02/01/2019 20:00	WG1231554
Vinyl chloride	1370		11.8	50.0	100	02/01/2019 20:00	WG1231554
Xylenes, Total	U		31.6	150	100	02/01/2019 20:00	WG1231554
(S) Toluene-d8	106			80.0-120		02/01/2019 20:00	WG1231554
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 20:00	WG1231554
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 20:00	WG1231554

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/20/19





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Benzene	U		0.0896	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Carbon disulfide	U		0.101	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Chlorobenzene	U		0.140	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Chloroethane	U		0.141	2.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Chloroform	U		0.0860	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Chloromethane	U		0.153	1.25	1	02/01/2019 17:19	<a href="#">WG1231554</a>
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Dibromomethane	U		0.117	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Ethylbenzene	U		0.158	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
2-Hexanone	U		0.757	5.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
n-Hexane	U		0.305	5.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Iodomethane	U		0.377	10.0	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Methylene Chloride	U		1.07	2.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Naphthalene	U	UJ JO	0.174	2.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Styrene	U		0.117	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/20/19



Collected date/time: 01/29/19 00:00

L1065152

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Toluene	1.29		0.412	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Trichloroethene	U		0.153	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Vinyl acetate	U		0.645	5.00	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Vinyl chloride	U		0.118	0.500	1	02/01/2019 17:19	<a href="#">WG1231554</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 17:19	<a href="#">WG1231554</a>
(S) Toluene-d8	109			80.0-120		02/01/2019 17:19	<a href="#">WG1231554</a>
(S) Dibromofluoromethane	99.0			75.0-120		02/01/2019 17:19	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 17:19	<a href="#">WG1231554</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 2/20/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	564000		2710	20000	1	02/04/2019 17:55	<a href="#">WG1232234</a>

Sample Narrative:

L1065595-01 WG1232234: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	49200		51.9	1000	1	01/31/2019 21:06	<a href="#">WG1230731</a>
Nitrate	U		22.7	100	1	01/31/2019 21:06	<a href="#">WG1230731</a>
Sulfate	37100		77.4	5000	1	01/31/2019 21:06	<a href="#">WG1230731</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	14500		102	1000	1	01/31/2019 22:54	<a href="#">WG1230357</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	2350		15.0	100	1	02/01/2019 14:54	<a href="#">WG1231148</a>
Manganese	947		0.250	5.00	1	02/01/2019 14:54	<a href="#">WG1231148</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	663	J+	31.6	100	1	02/01/2019 20:27	<a href="#">WG1231257</a> <span style="color: red;">JC 3/19/19</span>
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120		02/01/2019 20:27	<a href="#">WG1231257</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	14500		2.87	6.78	10	02/01/2019 14:47	<a href="#">WG1231475</a>
Ethane	89.2		0.296	1.29	1	02/01/2019 13:16	<a href="#">WG1231081</a>
Ethene	70.3		0.422	1.27	1	02/01/2019 13:16	<a href="#">WG1231081</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Benzene	0.215	J	0.0896	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 20:20	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Carbon disulfide	U		0.101	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 20:20	<a href="#">WG1231554</a> <span style="color: red;">JC 3/11/19</span>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/30/19 09:05

L1065595

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch	
Chlorobenzene	U		0.140	0.500	1	02/01/2019 20:20	WG1231554	
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 20:20	WG1231554	
Chloroethane	3.52		0.141	2.50	1	02/01/2019 20:20	WG1231554	
Chloroform	U		0.0860	0.500	1	02/01/2019 20:20	WG1231554	
Chloromethane	U		0.153	1.25	1	02/01/2019 20:20	WG1231554	
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 20:20	WG1231554	
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 20:20	WG1231554	
1,2-Dibromo-3-Chloropropane	U	UJ	<u>JO</u>	0.325	2.50	1	02/01/2019 20:20	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 20:20	WG1231554	
Dibromomethane	U		0.117	0.500	1	02/01/2019 20:20	WG1231554	
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 20:20	WG1231554	
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 20:20	WG1231554	
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 20:20	WG1231554	
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 20:20	WG1231554	
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 20:20	WG1231554	
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 20:20	WG1231554	
1,1-Dichloroethene	9.01		0.188	0.500	1	02/01/2019 20:20	WG1231554	
cis-1,2-Dichloroethene	1130		2.33	12.5	25	02/03/2019 18:25	WG1231885	
trans-1,2-Dichloroethene	14.4		0.152	0.500	1	02/01/2019 20:20	WG1231554	
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 20:20	WG1231554	
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 20:20	WG1231554	
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 20:20	WG1231554	
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 20:20	WG1231554	
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 20:20	WG1231554	
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 20:20	WG1231554	
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 20:20	WG1231554	
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 20:20	WG1231554	
Ethylbenzene	U		0.158	0.500	1	02/01/2019 20:20	WG1231554	
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 20:20	WG1231554	
2-Hexanone	U		0.757	5.00	1	02/01/2019 20:20	WG1231554	
n-Hexane	U		0.305	5.00	1	02/01/2019 20:20	WG1231554	
Iodomethane	U		0.377	10.0	1	02/01/2019 20:20	WG1231554	
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 20:20	WG1231554	
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 20:20	WG1231554	
2-Butanone (MEK)	U	UJ	<u>JO</u>	1.28	5.00	1	02/01/2019 20:20	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 20:20	WG1231554	
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 20:20	WG1231554	
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 20:20	WG1231554	
Naphthalene	U	UJ	<u>JO</u>	0.174	2.50	1	02/01/2019 20:20	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 20:20	WG1231554	
Styrene	U		0.117	0.500	1	02/01/2019 20:20	WG1231554	
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 20:20	WG1231554	
1,1,2,2-Tetrachloroethane	U	UJ	<u>JO</u>	0.130	0.500	1	02/01/2019 20:20	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 20:20	WG1231554	
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 20:20	WG1231554	
Toluene	0.715	J+		0.412	0.500	1	02/01/2019 20:20	WG1231554
1,2,3-Trichlorobenzene	U	UJ	<u>JO</u>	0.164	0.500	1	02/01/2019 20:20	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 20:20	WG1231554	
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 20:20	WG1231554	
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 20:20	WG1231554	
Trichloroethene	41.1		0.153	0.500	1	02/01/2019 20:20	WG1231554	
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 20:20	WG1231554	
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 20:20	WG1231554	
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 20:20	WG1231554	
1,2,3-Trimethylbenzene	U	UJ	<u>JO J4</u>	0.0739	0.500	1	02/01/2019 20:20	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 20:20	WG1231554	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/01/2019 20:20	<a href="#">WG1231554</a>
Vinyl chloride	474		2.95	12.5	25	02/03/2019 18:25	<a href="#">WG1231885</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 20:20	<a href="#">WG1231554</a>
(S) Toluene-d8	104			80.0-120		02/01/2019 20:20	<a href="#">WG1231554</a>
(S) Toluene-d8	100			80.0-120		02/03/2019 18:25	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	98.0			75.0-120		02/01/2019 20:20	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/01/2019 20:20	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	99.2			77.0-126		02/03/2019 18:25	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	89.5			70.0-130		02/03/2019 18:25	<a href="#">WG1231885</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Benzene	U		0.0896	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Carbon disulfide	U		0.101	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Chlorobenzene	U		0.140	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Chloroethane	U		0.141	2.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Chloroform	U		0.0860	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Chloromethane	U		0.153	1.25	1	02/01/2019 20:40	<a href="#">WG1231554</a>
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Dibromomethane	U		0.117	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
cis-1,2-Dichloroethene	0.655		0.0933	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Ethylbenzene	U		0.158	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
2-Hexanone	U		0.757	5.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
n-Hexane	U		0.305	5.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Iodomethane	U		0.377	10.0	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Methylene Chloride	U		1.07	2.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Naphthalene	U	UJ JO	0.174	2.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Styrene	U		0.117	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Toluene	U		0.412	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Trichloroethene	U		0.153	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Vinyl acetate	U		0.645	5.00	1	02/01/2019 20:40	<a href="#">WG1231554</a>
Vinyl chloride	U		0.118	0.500	1	02/03/2019 14:52	<a href="#">WG1231885</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 20:40	<a href="#">WG1231554</a>
(S) Toluene-d8	106			80.0-120		02/01/2019 20:40	<a href="#">WG1231554</a>
(S) Toluene-d8	102			80.0-120		02/03/2019 14:52	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	99.0			75.0-120		02/01/2019 20:40	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/01/2019 20:40	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	95.3			77.0-126		02/03/2019 14:52	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		02/03/2019 14:52	<a href="#">WG1231885</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		5.25	125	5	02/01/2019 21:01	WG1231554
Acrylonitrile	U		4.36	25.0	5	02/01/2019 21:01	WG1231554
Benzene	1.02	J J	0.448	2.50	5	02/01/2019 21:01	WG1231554
Bromobenzene	U		0.665	2.50	5	02/01/2019 21:01	WG1231554
Bromodichloromethane	U		0.400	2.50	5	02/01/2019 21:01	WG1231554
Bromochloromethane	U		0.725	2.50	5	02/01/2019 21:01	WG1231554
Bromoform	U		0.930	2.50	5	02/01/2019 21:01	WG1231554
Bromomethane	U		0.785	12.5	5	02/01/2019 21:01	WG1231554
n-Butylbenzene	U		0.715	2.50	5	02/01/2019 21:01	WG1231554
sec-Butylbenzene	U		0.670	2.50	5	02/01/2019 21:01	WG1231554
tert-Butylbenzene	U		0.915	2.50	5	02/01/2019 21:01	WG1231554
Carbon disulfide	U		0.505	2.50	5	02/01/2019 21:01	WG1231554
Carbon tetrachloride	U		0.795	2.50	5	02/01/2019 21:01	WG1231554
Chlorobenzene	U		0.700	2.50	5	02/01/2019 21:01	WG1231554
Chlorodibromomethane	U		0.640	2.50	5	02/01/2019 21:01	WG1231554
Chloroethane	U		0.705	12.5	5	02/01/2019 21:01	WG1231554
Chloroform	U		0.430	2.50	5	02/01/2019 21:01	WG1231554
Chloromethane	U		0.765	6.25	5	02/01/2019 21:01	WG1231554
2-Chlorotoluene	U		0.555	2.50	5	02/01/2019 21:01	WG1231554
4-Chlorotoluene	U		0.486	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ JO	1.62	12.5	5	02/01/2019 21:01	WG1231554
1,2-Dibromoethane	U		0.965	2.50	5	02/01/2019 21:01	WG1231554
Dibromomethane	U		0.585	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichlorobenzene	U		0.505	2.50	5	02/01/2019 21:01	WG1231554
1,3-Dichlorobenzene	U		0.650	2.50	5	02/01/2019 21:01	WG1231554
1,4-Dichlorobenzene	U		0.605	2.50	5	02/01/2019 21:01	WG1231554
Dichlorodifluoromethane	U		0.635	12.5	5	02/01/2019 21:01	WG1231554
1,1-Dichloroethane	U		0.570	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichloroethane	U		0.540	2.50	5	02/01/2019 21:01	WG1231554
1,1-Dichloroethene	8.61		0.940	2.50	5	02/01/2019 21:01	WG1231554
cis-1,2-Dichloroethene	6330		18.7	100	200	02/03/2019 18:44	WG1231885
trans-1,2-Dichloroethene	22.8		0.760	2.50	5	02/01/2019 21:01	WG1231554
1,2-Dichloropropane	U		0.950	2.50	5	02/01/2019 21:01	WG1231554
1,1-Dichloropropene	U		0.640	2.50	5	02/01/2019 21:01	WG1231554
1,3-Dichloropropane	U		0.735	5.00	5	02/01/2019 21:01	WG1231554
cis-1,3-Dichloropropene	U		0.488	2.50	5	02/01/2019 21:01	WG1231554
trans-1,3-Dichloropropene	U		1.11	2.50	5	02/01/2019 21:01	WG1231554
trans-1,4-Dichloro-2-butene	U		1.28	25.0	5	02/01/2019 21:01	WG1231554
2,2-Dichloropropane	U		0.464	2.50	5	02/01/2019 21:01	WG1231554
Di-isopropyl ether	U		0.462	2.50	5	02/01/2019 21:01	WG1231554
Ethylbenzene	U		0.790	2.50	5	02/01/2019 21:01	WG1231554
Hexachloro-1,3-butadiene	U		0.785	5.00	5	02/01/2019 21:01	WG1231554
2-Hexanone	U		3.78	25.0	5	02/01/2019 21:01	WG1231554
n-Hexane	U		1.52	25.0	5	02/01/2019 21:01	WG1231554
Iodomethane	U		1.88	50.0	5	02/01/2019 21:01	WG1231554
Isopropylbenzene	U		0.630	2.50	5	02/01/2019 21:01	WG1231554
p-Isopropyltoluene	U		0.690	2.50	5	02/01/2019 21:01	WG1231554
2-Butanone (MEK)	U	UJ JO	6.40	25.0	5	02/01/2019 21:01	WG1231554
Methylene Chloride	U		5.35	12.5	5	02/01/2019 21:01	WG1231554
4-Methyl-2-pentanone (MIBK)	U		4.12	25.0	5	02/01/2019 21:01	WG1231554
Methyl tert-butyl ether	U		0.510	2.50	5	02/01/2019 21:01	WG1231554
Naphthalene	U	UJ JO	0.870	12.5	5	02/01/2019 21:01	WG1231554
n-Propylbenzene	U		0.810	2.50	5	02/01/2019 21:01	WG1231554
Styrene	U		0.585	2.50	5	02/01/2019 21:01	WG1231554
1,1,1,2-Tetrachloroethane	U		0.600	2.50	5	02/01/2019 21:01	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ JO	0.650	2.50	5	02/01/2019 21:01	WG1231554

- 1 Cp
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- 9 Sc

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.820	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
Tetrachloroethene	U		0.995	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
Toluene	U		2.06	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.820	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
1,2,4-Trichlorobenzene	U		1.78	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
1,1,1-Trichloroethane	U		0.470	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
1,1,2-Trichloroethane	U		0.930	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
Trichloroethene	2.81		0.765	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
Trichlorofluoromethane	U		0.650	12.5	5	02/01/2019 21:01	<a href="#">WG1231554</a>
1,2,3-Trichloropropane	U		1.24	12.5	5	02/01/2019 21:01	<a href="#">WG1231554</a>
1,2,4-Trimethylbenzene	U		0.615	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
1,2,3-Trimethylbenzene	U	UJ JO J4	0.370	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
1,3,5-Trimethylbenzene	U		0.620	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
Vinyl acetate	U		3.22	25.0	5	02/01/2019 21:01	<a href="#">WG1231554</a>
Vinyl chloride	34.8		0.590	2.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
Xylenes, Total	U		1.58	7.50	5	02/01/2019 21:01	<a href="#">WG1231554</a>
(S) Toluene-d8	106			80.0-120		02/01/2019 21:01	<a href="#">WG1231554</a>
(S) Toluene-d8	101			80.0-120		02/03/2019 18:44	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	102			75.0-120		02/01/2019 21:01	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	85.0			77.0-126		02/01/2019 21:01	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	99.9			77.0-126		02/03/2019 18:44	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	98.6			70.0-130		02/03/2019 18:44	<a href="#">WG1231885</a>

- 1 Cp
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## Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Alkalinity	3350	J	2710	20000	1	02/04/2019 18:11	<a href="#">WG1232234</a>

## Sample Narrative:

L1065595-04 WG1232234: Endpoint pH 4.5 HEADSPACE

## Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	122	J	51.9	1000	1	01/31/2019 21:22	<a href="#">WG1230731</a>
Nitrate	45.8	J	22.7	100	1	01/31/2019 21:22	<a href="#">WG1230731</a>
Sulfate	U		77.4	5000	1	01/31/2019 21:22	<a href="#">WG1230731</a>

## Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	738	B J	102	1000	1	01/31/2019 23:16	<a href="#">WG1230357</a>

## Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Iron	42.2	J	15.0	100	1	02/01/2019 14:59	<a href="#">WG1231148</a>
Manganese	1.22	J	0.250	5.00	1	02/01/2019 14:59	<a href="#">WG1231148</a>

## Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/01/2019 20:49	<a href="#">WG1231257</a>
(S) a,a,a-Trifluorotoluene(FID)	108			78.0-120		02/01/2019 20:49	<a href="#">WG1231257</a>

## Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Methane	11.1		0.287	0.678	1	02/01/2019 14:38	<a href="#">WG1231475</a>
Ethane	U		0.296	1.29	1	02/01/2019 14:38	<a href="#">WG1231475</a>
Ethene	U		0.422	1.27	1	02/01/2019 14:38	<a href="#">WG1231475</a>

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Benzene	U		0.0896	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Bromodichloromethane	0.221	J	0.0800	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 21:21	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Carbon disulfide	U		0.101	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>

JC 3/11/19



Collected date/time: 01/30/19 12:30

L1065595

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/01/2019 21:21	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 21:21	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 21:21	WG1231554
Chloroform	0.260	<u>B</u> <u>J</u>	0.0860	0.500	1	02/01/2019 21:21	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 21:21	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 21:21	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 21:21	WG1231554
1,2-Dibromo-3-Chloropropane	U	<u>U</u> <u>J</u> <u>O</u>	0.325	2.50	1	02/01/2019 21:21	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 21:21	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 21:21	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 21:21	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 21:21	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 21:21	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 21:21	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 21:21	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 21:21	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 21:21	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/03/2019 15:11	WG1231885
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 21:21	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 21:21	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 21:21	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 21:21	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 21:21	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 21:21	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 21:21	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 21:21	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 21:21	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 21:21	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 21:21	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 21:21	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 21:21	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 21:21	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 21:21	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 21:21	WG1231554
2-Butanone (MEK)	U	<u>U</u> <u>J</u> <u>O</u>	1.28	5.00	1	02/01/2019 21:21	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 21:21	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 21:21	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 21:21	WG1231554
Naphthalene	U	<u>U</u> <u>J</u> <u>O</u>	0.174	2.50	1	02/01/2019 21:21	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 21:21	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 21:21	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 21:21	WG1231554
1,1,2,2-Tetrachloroethane	U	<u>U</u> <u>J</u> <u>O</u>	0.130	0.500	1	02/01/2019 21:21	WG1231554
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 21:21	WG1231554
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 21:21	WG1231554
Toluene	U		0.412	0.500	1	02/01/2019 21:21	WG1231554
1,2,3-Trichlorobenzene	U	<u>U</u> <u>J</u> <u>O</u>	0.164	0.500	1	02/01/2019 21:21	WG1231554
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 21:21	WG1231554
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 21:21	WG1231554
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 21:21	WG1231554
Trichloroethene	U		0.153	0.500	1	02/01/2019 21:21	WG1231554
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 21:21	WG1231554
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 21:21	WG1231554
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 21:21	WG1231554
1,2,3-Trimethylbenzene	U	<u>U</u> <u>J</u> <u>O</u> <u>J</u> <u>4</u>	0.0739	0.500	1	02/01/2019 21:21	WG1231554
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 21:21	WG1231554

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Collected date/time: 01/30/19 12:30

L1065595

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Vinyl chloride	U		0.118	0.500	1	02/01/2019 21:21	<a href="#">WG1231554</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 21:21	<a href="#">WG1231554</a>
(S) Toluene-d8	104			80.0-120		02/01/2019 21:21	<a href="#">WG1231554</a>
(S) Toluene-d8	98.2			80.0-120		02/03/2019 15:11	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 21:21	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	85.0			77.0-126		02/01/2019 21:21	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	96.0			77.0-126		02/03/2019 15:11	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		02/03/2019 15:11	<a href="#">WG1231885</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Benzene	U		0.0896	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Carbon disulfide	U		0.101	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Chlorobenzene	U		0.140	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Chloroethane	U		0.141	2.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Chloroform	U		0.0860	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Chloromethane	U		0.153	1.25	1	02/01/2019 21:41	<a href="#">WG1231554</a>
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2-Dibromo-3-Chloropropane	U	<b>UJ</b> <u>JO</u>	0.325	2.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Dibromomethane	U		0.117	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
cis-1,2-Dichloroethene	0.316	<b>J</b> <u>J</u>	0.0933	0.500	1	02/03/2019 15:30	<a href="#">WG1231885</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Ethylbenzene	U		0.158	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
2-Hexanone	U		0.757	5.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
n-Hexane	U		0.305	5.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Iodomethane	U		0.377	10.0	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
2-Butanone (MEK)	U	<b>UJ</b> <u>JO</u>	1.28	5.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Methylene Chloride	U		1.07	2.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Naphthalene	U	<b>UJ</b> <u>JO</u>	0.174	2.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Styrene	U		0.117	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,1,2,2-Tetrachloroethane	U	<b>UJ</b> <u>JO</u>	0.130	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Toluene	U		0.412	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2,3-Trichlorobenzene	U	<b>UJ</b> <u>JO</u>	0.164	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Trichloroethene	U		0.153	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,2,3-Trimethylbenzene	U	<b>UJ</b> <u>JO J4</u>	0.0739	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Vinyl acetate	U		0.645	5.00	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Vinyl chloride	12.4		0.118	0.500	1	02/01/2019 21:41	<a href="#">WG1231554</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 21:41	<a href="#">WG1231554</a>
(S) Toluene-d8	105			80.0-120		02/01/2019 21:41	<a href="#">WG1231554</a>
(S) Toluene-d8	99.2			80.0-120		02/03/2019 15:30	<a href="#">WG1231885</a>
(S) Dibromofluoromethane	101			75.0-120		02/01/2019 21:41	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/01/2019 21:41	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	98.7			77.0-126		02/03/2019 15:30	<a href="#">WG1231885</a>
(S) 1,2-Dichloroethane-d4	90.8			70.0-130		02/03/2019 15:30	<a href="#">WG1231885</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	U		31.6	100	1	02/01/2019 21:11	<a href="#">WG1231257</a>
(S) a,a,a-Trifluorotoluene(FID)	109			78.0-120		02/01/2019 21:11	<a href="#">WG1231257</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Acrylonitrile	U		0.873	5.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Benzene	U		0.0896	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Bromobenzene	U		0.133	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Bromochloromethane	U		0.145	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Bromoform	U		0.186	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Bromomethane	U		0.157	2.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Carbon disulfide	U		0.101	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Chlorobenzene	U		0.140	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Chloroethane	U		0.141	2.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Chloroform	U		0.0860	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Chloromethane	U		0.153	1.25	1	02/01/2019 22:01	<a href="#">WG1231554</a>
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2-Dibromo-3-Chloropropane	U	<b>UJ</b> <u>JO</u>	0.325	2.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Dibromomethane	U		0.117	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
cis-1,2-Dichloroethene	0.479	<b>J</b> <u>J</u>	0.0933	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Ethylbenzene	U		0.158	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>
2-Hexanone	U		0.757	5.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>
n-Hexane	U		0.305	5.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Iodomethane	U		0.377	10.0	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
2-Butanone (MEK)	U	<b>UJ</b> <u>JO</u>	1.28	5.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Naphthalene	U	UJ JO	0.174	2.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Styrene	U		0.117	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Toluene	U		0.412	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Trichloroethene	U		0.153	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Vinyl acetate	U		0.645	5.00	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Vinyl chloride	U		0.118	0.500	1	02/01/2019 22:01	<a href="#">WG1231554</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 22:01	<a href="#">WG1231554</a>
(S) Toluene-d8	107			80.0-120		02/01/2019 22:01	<a href="#">WG1231554</a>
(S) Dibromofluoromethane	100			75.0-120		02/01/2019 22:01	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/01/2019 22:01	<a href="#">WG1231554</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/01/2019 17:39	WG1231554
Acrylonitrile	U		0.873	5.00	1	02/01/2019 17:39	WG1231554
Benzene	U		0.0896	0.500	1	02/01/2019 17:39	WG1231554
Bromobenzene	U		0.133	0.500	1	02/01/2019 17:39	WG1231554
Bromodichloromethane	U		0.0800	0.500	1	02/01/2019 17:39	WG1231554
Bromochloromethane	U		0.145	0.500	1	02/01/2019 17:39	WG1231554
Bromoform	U		0.186	0.500	1	02/01/2019 17:39	WG1231554
Bromomethane	U		0.157	2.50	1	02/01/2019 17:39	WG1231554
n-Butylbenzene	U		0.143	0.500	1	02/01/2019 17:39	WG1231554
sec-Butylbenzene	U		0.134	0.500	1	02/01/2019 17:39	WG1231554
tert-Butylbenzene	U		0.183	0.500	1	02/01/2019 17:39	WG1231554
Carbon disulfide	U		0.101	0.500	1	02/01/2019 17:39	WG1231554
Carbon tetrachloride	U		0.159	0.500	1	02/01/2019 17:39	WG1231554
Chlorobenzene	U		0.140	0.500	1	02/01/2019 17:39	WG1231554
Chlorodibromomethane	U		0.128	0.500	1	02/01/2019 17:39	WG1231554
Chloroethane	U		0.141	2.50	1	02/01/2019 17:39	WG1231554
Chloroform	U		0.0860	0.500	1	02/01/2019 17:39	WG1231554
Chloromethane	U		0.153	1.25	1	02/01/2019 17:39	WG1231554
2-Chlorotoluene	U		0.111	0.500	1	02/01/2019 17:39	WG1231554
4-Chlorotoluene	U		0.0972	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dibromo-3-Chloropropane	U	UJ JO	0.325	2.50	1	02/01/2019 17:39	WG1231554
1,2-Dibromoethane	U		0.193	0.500	1	02/01/2019 17:39	WG1231554
Dibromomethane	U		0.117	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichlorobenzene	U		0.101	0.500	1	02/01/2019 17:39	WG1231554
1,3-Dichlorobenzene	U		0.130	0.500	1	02/01/2019 17:39	WG1231554
1,4-Dichlorobenzene	U		0.121	0.500	1	02/01/2019 17:39	WG1231554
Dichlorodifluoromethane	U		0.127	2.50	1	02/01/2019 17:39	WG1231554
1,1-Dichloroethane	U		0.114	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichloroethane	U		0.108	0.500	1	02/01/2019 17:39	WG1231554
1,1-Dichloroethene	U		0.188	0.500	1	02/01/2019 17:39	WG1231554
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/01/2019 17:39	WG1231554
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/01/2019 17:39	WG1231554
1,2-Dichloropropane	U		0.190	0.500	1	02/01/2019 17:39	WG1231554
1,1-Dichloropropene	U		0.128	0.500	1	02/01/2019 17:39	WG1231554
1,3-Dichloropropane	U		0.147	1.00	1	02/01/2019 17:39	WG1231554
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/01/2019 17:39	WG1231554
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/01/2019 17:39	WG1231554
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/01/2019 17:39	WG1231554
2,2-Dichloropropane	U		0.0929	0.500	1	02/01/2019 17:39	WG1231554
Di-isopropyl ether	U		0.0924	0.500	1	02/01/2019 17:39	WG1231554
Ethylbenzene	U		0.158	0.500	1	02/01/2019 17:39	WG1231554
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/01/2019 17:39	WG1231554
2-Hexanone	U		0.757	5.00	1	02/01/2019 17:39	WG1231554
n-Hexane	U		0.305	5.00	1	02/01/2019 17:39	WG1231554
Iodomethane	U		0.377	10.0	1	02/01/2019 17:39	WG1231554
Isopropylbenzene	U		0.126	0.500	1	02/01/2019 17:39	WG1231554
p-Isopropyltoluene	U		0.138	0.500	1	02/01/2019 17:39	WG1231554
2-Butanone (MEK)	U	UJ JO	1.28	5.00	1	02/01/2019 17:39	WG1231554
Methylene Chloride	U		1.07	2.50	1	02/01/2019 17:39	WG1231554
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/01/2019 17:39	WG1231554
Methyl tert-butyl ether	U		0.102	0.500	1	02/01/2019 17:39	WG1231554
Naphthalene	U	UJ JO	0.174	2.50	1	02/01/2019 17:39	WG1231554
n-Propylbenzene	U		0.162	0.500	1	02/01/2019 17:39	WG1231554
Styrene	U		0.117	0.500	1	02/01/2019 17:39	WG1231554
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/01/2019 17:39	WG1231554
1,1,2,2-Tetrachloroethane	U	UJ JO	0.130	0.500	1	02/01/2019 17:39	WG1231554

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Collected date/time: 01/30/19 00:00

L1065595

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
Tetrachloroethene	U		0.199	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
Toluene	0.700		0.412	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
1,2,3-Trichlorobenzene	U	UJ JO	0.164	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
Trichloroethene	U		0.153	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/01/2019 17:39	<a href="#">WG1231554</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/01/2019 17:39	<a href="#">WG1231554</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
1,2,3-Trimethylbenzene	U	UJ JO J4	0.0739	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
Vinyl acetate	U		0.645	5.00	1	02/01/2019 17:39	<a href="#">WG1231554</a>
Vinyl chloride	U		0.118	0.500	1	02/01/2019 17:39	<a href="#">WG1231554</a>
Xylenes, Total	U		0.316	1.50	1	02/01/2019 17:39	<a href="#">WG1231554</a>
(S) Toluene-d8	105			80.0-120		02/01/2019 17:39	<a href="#">WG1231554</a>
(S) Dibromofluoromethane	99.0			75.0-120		02/01/2019 17:39	<a href="#">WG1231554</a>
(S) 4-Bromofluorobenzene	87.0			77.0-126		02/01/2019 17:39	<a href="#">WG1231554</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	22400	J	316	1000	10	02/08/2019 14:46	WG1234465 JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	86.2			78.0-120		02/08/2019 14:46	WG1234465

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	9.13	J J	1.05	25.0	1	02/03/2019 16:05	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:05	WG1231972
Benzene	0.377	J J	0.0896	0.500	1	02/03/2019 16:05	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:05	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:05	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:05	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 16:05	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 16:05	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:05	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:05	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:05	WG1231972
Carbon disulfide	4.57		0.101	0.500	1	02/03/2019 16:05	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:05	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:05	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:05	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 16:05	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 16:05	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 16:05	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:05	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:05	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:05	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:05	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:05	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:05	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:05	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:05	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:05	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:05	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:05	WG1231972
1,1-Dichloroethene	130		0.188	0.500	1	02/03/2019 16:05	WG1231972
cis-1,2-Dichloroethene	27700		93.3	500	1000	02/10/2019 17:56	WG1235063
trans-1,2-Dichloroethene	107		0.152	0.500	1	02/03/2019 16:05	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:05	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:05	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:05	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:05	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:05	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:05	WG1231972
2,2-Dichloropropane	0.128	J J	0.0929	0.500	1	02/03/2019 16:05	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:05	WG1231972
Ethylbenzene	0.279	J J	0.158	0.500	1	02/03/2019 16:05	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:05	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:05	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 16:05	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 16:05	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:05	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 16:05	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 16:05	WG1231972 JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 16:05	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:05	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
Naphthalene	0.204	J ↓	0.174	2.50	1	02/03/2019 16:05	<a href="#">WG1231972</a>
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
Tetrachloroethene	23700		199	500	1000	02/10/2019 17:56	<a href="#">WG1235063</a>
Toluene	1.51	J+	0.412	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
Trichloroethene	4640		153	500	1000	02/10/2019 17:56	<a href="#">WG1235063</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	1.09		0.123	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	0.622		0.0739	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	0.394	J ↓	0.124	0.500	1	02/03/2019 16:05	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:05	<a href="#">WG1231972</a>
Vinyl chloride	1740		118	500	1000	02/10/2019 17:56	<a href="#">WG1235063</a>
Xylenes, Total	1.22	J ↓	0.316	1.50	1	02/03/2019 16:05	<a href="#">WG1231972</a>
(S) Toluene-d8	105			80.0-120		02/03/2019 16:05	<a href="#">WG1231972</a>
(S) Toluene-d8	97.6			80.0-120		02/10/2019 17:56	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	100			75.0-120		02/03/2019 16:05	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	87.0			77.0-126		02/03/2019 16:05	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	89.2			77.0-126		02/10/2019 17:56	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	93.4			70.0-130		02/10/2019 17:56	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	44300	J+	316	1000	10	02/08/2019 08:21	<a href="#">WG1234228</a> JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	85.2			78.0-120		02/08/2019 08:21	<a href="#">WG1234228</a>

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	30.9		1.05	25.0	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Benzene	0.416	J J	0.0896	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Bromoform	U		0.186	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Bromomethane	U		0.157	2.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Carbon disulfide	16.4		0.101	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Chloroethane	U		0.141	2.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Chloroform	0.137	J J	0.0860	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Chloromethane	U		0.153	1.25	1	02/03/2019 16:25	<a href="#">WG1231972</a>
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,1-Dichloroethene	86.3		0.188	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
cis-1,2-Dichloroethene	58400		187	1000	2000	02/10/2019 18:16	<a href="#">WG1235063</a>
trans-1,2-Dichloroethene	101		0.152	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:25	<a href="#">WG1231972</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:25	<a href="#">WG1231972</a>
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Ethylbenzene	0.342	J J	0.158	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:25	<a href="#">WG1231972</a>
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:25	<a href="#">WG1231972</a>
n-Hexane	U		0.305	5.00	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Iodomethane	U		0.377	10.0	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
p-Isopropyltoluene	0.196	J J	0.138	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
2-Butanone (MEK)	9.01		1.28	5.00	1	02/03/2019 16:25	<a href="#">WG1231972</a> JC 3/11/19

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Naphthalene	0.266	J J	0.174	2.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
n-Propylbenzene	0.281	J J	0.162	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Tetrachloroethene	38300		398	1000	2000	02/10/2019 18:16	<a href="#">WG1235063</a>
Toluene	2.61	J+	0.412	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Trichloroethene	3920		306	1000	2000	02/10/2019 18:16	<a href="#">WG1235063</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	2.37		0.123	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	0.932		0.0739	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	0.615		0.124	0.500	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:25	<a href="#">WG1231972</a>
Vinyl chloride	9600		236	1000	2000	02/10/2019 18:16	<a href="#">WG1235063</a>
Xylenes, Total	2.10		0.316	1.50	1	02/03/2019 16:25	<a href="#">WG1231972</a>
(S) Toluene-d8	118			80.0-120		02/03/2019 16:25	<a href="#">WG1231972</a>
(S) Toluene-d8	93.5			80.0-120		02/10/2019 18:16	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	99.0			75.0-120		02/03/2019 16:25	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	86.0			77.0-126		02/03/2019 16:25	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	89.2			77.0-126		02/10/2019 18:16	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	96.6			70.0-130		02/10/2019 18:16	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Collected date/time: 01/31/19 12:40

L1066228

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	340	J+ B	31.6	100	1	02/08/2019 08:45	WG1234228
(S) a,a,a-Trifluorotoluene(FID)	84.7			78.0-120		02/08/2019 08:45	WG1234228

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	14.0	J J	1.05	25.0	1	02/03/2019 16:46	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 16:46	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 16:46	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 16:46	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 16:46	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 16:46	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 16:46	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 16:46	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 16:46	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 16:46	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 16:46	WG1231972
Carbon disulfide	0.344	J J	0.101	0.500	1	02/03/2019 16:46	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 16:46	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 16:46	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 16:46	WG1231972
Chloroethane	6.11		0.141	2.50	1	02/03/2019 16:46	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 16:46	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 16:46	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 16:46	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 16:46	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 16:46	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 16:46	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 16:46	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 16:46	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 16:46	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 16:46	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 16:46	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 16:46	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 16:46	WG1231972
1,1-Dichloroethene	3.15		0.188	0.500	1	02/03/2019 16:46	WG1231972
cis-1,2-Dichloroethene	466		0.466	2.50	5	02/10/2019 18:36	WG1235063
trans-1,2-Dichloroethene	3.52		0.152	0.500	1	02/03/2019 16:46	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 16:46	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 16:46	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 16:46	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 16:46	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 16:46	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 16:46	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 16:46	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 16:46	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 16:46	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 16:46	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 16:46	WG1231972
n-Hexane	0.560	J J	0.305	5.00	1	02/03/2019 16:46	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 16:46	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 16:46	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 16:46	WG1231972
2-Butanone (MEK)	1.71	J J	1.28	5.00	1	02/03/2019 16:46	WG1231972

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 16:46	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 16:46	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
Naphthalene	U		0.174	2.50	1	02/03/2019 16:46	<a href="#">WG1231972</a>
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
Tetrachloroethene	106		0.995	2.50	5	02/10/2019 18:36	<a href="#">WG1235063</a>
Toluene	U		0.412	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
Trichloroethene	40.4		0.765	2.50	5	02/10/2019 18:36	<a href="#">WG1235063</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 16:46	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 16:46	<a href="#">WG1231972</a>
Vinyl chloride	158		0.590	2.50	5	02/10/2019 18:36	<a href="#">WG1235063</a>
Xylenes, Total	U		0.316	1.50	1	02/03/2019 16:46	<a href="#">WG1231972</a>
(S) Toluene-d8	105			80.0-120		02/03/2019 16:46	<a href="#">WG1231972</a>
(S) Toluene-d8	97.2			80.0-120		02/10/2019 18:36	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	99.0			75.0-120		02/03/2019 16:46	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	84.0			77.0-126		02/03/2019 16:46	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	85.8			77.0-126		02/10/2019 18:36	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	91.8			70.0-130		02/10/2019 18:36	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19





Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	104	J+ B	31.6	100	1	02/03/2019 19:08	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	88.9			78.0-120		02/03/2019 19:08	WG1231937

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	7.79	J J	1.05	25.0	1	02/03/2019 17:06	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 17:06	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 17:06	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 17:06	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 17:06	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 17:06	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 17:06	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 17:06	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 17:06	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 17:06	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 17:06	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 17:06	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 17:06	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 17:06	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 17:06	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 17:06	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 17:06	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 17:06	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 17:06	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 17:06	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 17:06	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 17:06	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 17:06	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 17:06	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 17:06	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 17:06	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 17:06	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 17:06	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 17:06	WG1231972
1,1-Dichloroethene	0.366	J J	0.188	0.500	1	02/03/2019 17:06	WG1231972
cis-1,2-Dichloroethene	108		0.0933	0.500	1	02/03/2019 17:06	WG1231972
trans-1,2-Dichloroethene	0.506		0.152	0.500	1	02/03/2019 17:06	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 17:06	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 17:06	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 17:06	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 17:06	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 17:06	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 17:06	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 17:06	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 17:06	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 17:06	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 17:06	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 17:06	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 17:06	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 17:06	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 17:06	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 17:06	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 17:06	WG1231972

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/19/19

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 17:06	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Naphthalene	U		0.174	2.50	1	02/03/2019 17:06	<a href="#">WG1231972</a>
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Tetrachloroethene	22.9		0.199	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Toluene	U		0.412	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Trichloroethene	1.95		0.153	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:06	<a href="#">WG1231972</a>
Vinyl chloride	269		0.590	2.50	5	02/10/2019 18:56	<a href="#">WG1235063</a>
Xylenes, Total	U		0.316	1.50	1	02/03/2019 17:06	<a href="#">WG1231972</a>
(S) Toluene-d8	105			80.0-120		02/03/2019 17:06	<a href="#">WG1231972</a>
(S) Toluene-d8	92.9			80.0-120		02/10/2019 18:56	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	100			75.0-120		02/03/2019 17:06	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/03/2019 17:06	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	82.7			77.0-126		02/10/2019 18:56	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		02/10/2019 18:56	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	42700	J+	316	1000	10	02/08/2019 09:08	WG1234228 JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	85.7			78.0-120		02/08/2019 09:08	WG1234228

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	27.6	J	1.05	25.0	1	02/03/2019 17:26	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 17:26	WG1231972
Benzene	0.695	J	0.0896	0.500	1	02/03/2019 17:26	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 17:26	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 17:26	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 17:26	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 17:26	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 17:26	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 17:26	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 17:26	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 17:26	WG1231972
Carbon disulfide	0.462	J J	0.101	0.500	1	02/03/2019 17:26	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 17:26	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 17:26	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 17:26	WG1231972
Chloroethane	1.40	J J	0.141	2.50	1	02/03/2019 17:26	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 17:26	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 17:26	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 17:26	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 17:26	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 17:26	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichlorobenzene	0.147	J J	0.101	0.500	1	02/03/2019 17:26	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 17:26	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 17:26	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 17:26	WG1231972
1,1-Dichloroethane	0.396	J J	0.114	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 17:26	WG1231972
1,1-Dichloroethene	225	J E	0.188	0.500	1	02/03/2019 17:26	WG1231972
cis-1,2-Dichloroethene	37400		187	1000	2000	02/10/2019 19:16	WG1235063
trans-1,2-Dichloroethene	68.6	J	0.152	0.500	1	02/03/2019 17:26	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 17:26	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 17:26	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 17:26	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 17:26	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 17:26	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 17:26	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 17:26	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 17:26	WG1231972
Ethylbenzene	0.571	J	0.158	0.500	1	02/03/2019 17:26	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 17:26	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 17:26	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 17:26	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 17:26	WG1231972
Isopropylbenzene	0.136	J J	0.126	0.500	1	02/03/2019 17:26	WG1231972
p-Isopropyltoluene	0.195	J J	0.138	0.500	1	02/03/2019 17:26	WG1231972
2-Butanone (MEK)	4.87	J J	1.28	5.00	1	02/03/2019 17:26	WG1231972

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 17:26	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:26	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
Naphthalene	0.227	J ↓	0.174	2.50	1	02/03/2019 17:26	<a href="#">WG1231972</a>
n-Propylbenzene	0.376	J ↓	0.162	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
Tetrachloroethene	56500		398	1000	2000	02/10/2019 19:16	<a href="#">WG1235063</a>
Toluene	5.12	J+	0.412	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
Trichloroethene	9530		306	1000	2000	02/10/2019 19:16	<a href="#">WG1235063</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	2.50	J	0.123	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	1.08	J	0.0739	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	0.786	J	0.124	0.500	1	02/03/2019 17:26	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:26	<a href="#">WG1231972</a>
Vinyl chloride	1090		236	1000	2000	02/10/2019 19:16	<a href="#">WG1235063</a>
Xylenes, Total	3.43	J	0.316	1.50	1	02/03/2019 17:26	<a href="#">WG1231972</a>
(S) Toluene-d8	142	J1		80.0-120		02/03/2019 17:26	<a href="#">WG1231972</a>
(S) Toluene-d8	93.4			80.0-120		02/10/2019 19:16	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	99.0			75.0-120		02/03/2019 17:26	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	86.0			77.0-126		02/03/2019 17:26	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	85.3			77.0-126		02/10/2019 19:16	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	94.8			70.0-130		02/10/2019 19:16	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Sample Narrative:

L1066228-05 WG1231972: Surrogate failure due to matrix interference

JC 3/11/19



Collected date/time: 01/31/19 15:20

L1066228

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	38.0	U B <sub>J</sub>	31.6	100	1	02/08/2019 15:09	WG1234465
(S) a,a,a-Trifluorotoluene(FID)	86.0			78.0-120		02/08/2019 15:09	WG1234465

1 Cp

2 Tc

3 Ss

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	7.53	J J	1.05	25.0	1	02/03/2019 17:46	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 17:46	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 17:46	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 17:46	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 17:46	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 17:46	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 17:46	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 17:46	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 17:46	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 17:46	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 17:46	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 17:46	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 17:46	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 17:46	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 17:46	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 17:46	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 17:46	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 17:46	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 17:46	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 17:46	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 17:46	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 17:46	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 17:46	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 17:46	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 17:46	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 17:46	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 17:46	WG1231972
cis-1,2-Dichloroethene	5.53		0.0933	0.500	1	02/10/2019 15:56	WG1235063
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 17:46	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 17:46	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 17:46	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 17:46	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 17:46	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 17:46	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 17:46	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 17:46	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 17:46	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 17:46	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 17:46	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 17:46	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 17:46	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 17:46	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 17:46	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 17:46	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 17:46	WG1231972

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 17:46	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 17:46	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
Naphthalene	U		0.174	2.50	1	02/03/2019 17:46	<a href="#">WG1231972</a>
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
Tetrachloroethene	U		0.199	0.500	1	02/10/2019 15:56	<a href="#">WG1235063</a>
Toluene	U		0.412	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
Trichloroethene	U		0.153	0.500	1	02/10/2019 15:56	<a href="#">WG1235063</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 17:46	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 17:46	<a href="#">WG1231972</a>
Vinyl chloride	19.8		0.118	0.500	1	02/10/2019 15:56	<a href="#">WG1235063</a>
Xylenes, Total	U		0.316	1.50	1	02/03/2019 17:46	<a href="#">WG1231972</a>
(S) Toluene-d8	106			80.0-120		02/03/2019 17:46	<a href="#">WG1231972</a>
(S) Toluene-d8	96.5			80.0-120		02/10/2019 15:56	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	98.0			75.0-120		02/03/2019 17:46	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	83.0			77.0-126		02/03/2019 17:46	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	89.3			77.0-126		02/10/2019 15:56	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	91.7			70.0-130		02/10/2019 15:56	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	58.4	U B <sub>J</sub>	31.6	100	1	02/03/2019 20:19	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	88.8			78.0-120		02/03/2019 20:19	WG1231937

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/03/2019 18:06	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:06	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 18:06	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:06	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:06	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:06	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 18:06	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 18:06	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:06	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:06	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:06	WG1231972
Carbon disulfide	0.114	J J	0.101	0.500	1	02/03/2019 18:06	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:06	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:06	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:06	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 18:06	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 18:06	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 18:06	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:06	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:06	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:06	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:06	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:06	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:06	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:06	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:06	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 18:06	WG1231972
cis-1,2-Dichloroethene	0.616		0.0933	0.500	1	02/10/2019 16:16	WG1235063
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 18:06	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:06	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:06	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:06	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:06	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:06	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:06	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:06	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:06	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:06	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:06	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:06	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 18:06	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 18:06	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:06	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:06	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:06	WG1231972

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 18:06	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:06	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
Naphthalene	U		0.174	2.50	1	02/03/2019 18:06	<a href="#">WG1231972</a>
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
Tetrachloroethene	1.48		0.199	0.500	1	02/10/2019 16:16	<a href="#">WG1235063</a>
Toluene	U		0.412	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
Trichloroethene	U		0.153	0.500	1	02/10/2019 16:16	<a href="#">WG1235063</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:06	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:06	<a href="#">WG1231972</a>
Vinyl chloride	0.365	J	0.118	0.500	1	02/10/2019 16:16	<a href="#">WG1235063</a>
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:06	<a href="#">WG1231972</a>
(S) Toluene-d8	105			80.0-120		02/03/2019 18:06	<a href="#">WG1231972</a>
(S) Toluene-d8	93.3			80.0-120		02/10/2019 16:16	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	101			75.0-120		02/03/2019 18:06	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/03/2019 18:06	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	85.3			77.0-126		02/10/2019 16:16	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	94.7			70.0-130		02/10/2019 16:16	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19





Collected date/time: 02/01/19 11:05

L1066228

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch	
	ug/l		ug/l	ug/l		date / time		
Gasoline Range Organics-NWTPH	44.5	U	B <sub>J</sub>	31.6	100	1	02/03/2019 20:42	<a href="#">WG1231937</a>
(S) a,a,a-Trifluorotoluene(FID)	89.1				78.0-120		02/03/2019 20:42	<a href="#">WG1231937</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Benzene	U		0.0896	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Bromoform	U		0.186	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Bromomethane	U		0.157	2.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Carbon disulfide	U		0.101	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Chloroethane	U		0.141	2.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Chloroform	U		0.0860	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Chloromethane	U		0.153	1.25	1	02/03/2019 18:26	<a href="#">WG1231972</a>
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
cis-1,2-Dichloroethene	0.851		0.0933	0.500	1	02/10/2019 16:36	<a href="#">WG1235063</a>
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>
n-Hexane	U		0.305	5.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Iodomethane	U		0.377	10.0	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Naphthalene	U		0.174	2.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Tetrachloroethene	1.26		0.199	0.500	1	02/10/2019 16:36	<a href="#">WG1235063</a>
Toluene	U		0.412	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Trichloroethene	0.293	U	0.153	0.500	1	02/10/2019 16:36	<a href="#">WG1235063</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:26	<a href="#">WG1231972</a>
Vinyl chloride	0.186	J	0.118	0.500	1	02/10/2019 16:36	<a href="#">WG1235063</a>
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:26	<a href="#">WG1231972</a>
(S) Toluene-d8	105			80.0-120		02/03/2019 18:26	<a href="#">WG1231972</a>
(S) Toluene-d8	96.1			80.0-120		02/10/2019 16:36	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	102			75.0-120		02/03/2019 18:26	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	80.0			77.0-126		02/03/2019 18:26	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	87.2			77.0-126		02/10/2019 16:36	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	92.4			70.0-130		02/10/2019 16:36	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	46.4	U B <sub>J</sub>	31.6	100	1	02/03/2019 21:06	WG1231937
(S) a,a,a-Trifluorotoluene(FID)	88.7			78.0-120		02/03/2019 21:06	WG1231937

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	U		1.05	25.0	1	02/03/2019 18:47	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 18:47	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 18:47	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 18:47	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 18:47	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 18:47	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 18:47	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 18:47	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 18:47	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 18:47	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 18:47	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 18:47	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 18:47	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 18:47	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 18:47	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 18:47	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 18:47	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 18:47	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 18:47	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 18:47	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 18:47	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 18:47	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 18:47	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 18:47	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 18:47	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 18:47	WG1231972
1,1-Dichloroethene	1.94		0.188	0.500	1	02/03/2019 18:47	WG1231972
cis-1,2-Dichloroethene	12.4		0.0933	0.500	1	02/03/2019 18:47	WG1231972
trans-1,2-Dichloroethene	0.588		0.152	0.500	1	02/03/2019 18:47	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 18:47	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 18:47	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 18:47	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 18:47	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 18:47	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 18:47	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 18:47	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 18:47	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 18:47	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 18:47	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 18:47	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 18:47	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 18:47	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 18:47	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 18:47	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 18:47	WG1231972

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Methylene Chloride	U		1.07	2.50	1	02/03/2019 18:47	<a href="#">WG1231972</a>
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Naphthalene	U		0.174	2.50	1	02/03/2019 18:47	<a href="#">WG1231972</a>
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Styrene	U		0.117	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Tetrachloroethene	22.4		0.199	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Toluene	U		0.412	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Trichloroethene	9.29		0.153	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Vinyl chloride	4.36		0.118	0.500	1	02/03/2019 18:47	<a href="#">WG1231972</a>
Xylenes, Total	U		0.316	1.50	1	02/03/2019 18:47	<a href="#">WG1231972</a>
(S) Toluene-d8	106			80.0-120		02/03/2019 18:47	<a href="#">WG1231972</a>
(S) Dibromofluoromethane	99.0			75.0-120		02/03/2019 18:47	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/03/2019 18:47	<a href="#">WG1231972</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	79800		2710	20000	1	02/07/2019 12:08	<a href="#">WG1233465</a>

Sample Narrative:

L1066228-10 WG1233465: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	6740		51.9	1000	1	02/02/2019 13:01	<a href="#">WG1231671</a>
Nitrate	U		22.7	100	1	02/02/2019 13:01	<a href="#">WG1231671</a>
Sulfate	5500		77.4	5000	1	02/02/2019 13:01	<a href="#">WG1231671</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	6720		102	1000	1	02/04/2019 16:11	<a href="#">WG1231328</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	37000		15.0	100	1	02/04/2019 19:51	<a href="#">WG1232037</a>
Manganese	656		0.250	5.00	1	02/04/2019 19:51	<a href="#">WG1232037</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	191	J+	B	31.6	100	02/03/2019 21:29	<a href="#">WG1231937</a> JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	88.8			78.0-120		02/03/2019 21:29	<a href="#">WG1231937</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	605		0.287	0.678	1	02/05/2019 14:12	<a href="#">WG1232088</a>
Ethane	2.41		0.296	1.29	1	02/05/2019 14:12	<a href="#">WG1232088</a>
Ethene	29.4		0.422	1.27	1	02/05/2019 14:12	<a href="#">WG1232088</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	72.7		1.05	25.0	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Acrylonitrile	U		0.873	5.00	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Benzene	U		0.0896	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Bromobenzene	U		0.133	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Bromochloromethane	U		0.145	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Bromoform	U		0.186	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Bromomethane	U		0.157	2.50	1	02/03/2019 19:07	<a href="#">WG1231972</a>
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a> JC 3/11/19
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Carbon disulfide	0.179	J	J	0.101	0.500	02/03/2019 19:07	<a href="#">WG1231972</a>
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/01/19 14:30

L1066228

## Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/03/2019 19:07	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 19:07	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 19:07	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 19:07	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 19:07	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 19:07	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 19:07	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 19:07	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 19:07	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 19:07	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 19:07	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 19:07	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 19:07	WG1231972
1,1-Dichloroethene	0.415	J U	0.188	0.500	1	02/03/2019 19:07	WG1231972
cis-1,2-Dichloroethene	30.6		0.0933	0.500	1	02/03/2019 19:07	WG1231972
trans-1,2-Dichloroethene	0.326	J U	0.152	0.500	1	02/03/2019 19:07	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 19:07	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 19:07	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 19:07	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 19:07	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 19:07	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 19:07	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 19:07	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 19:07	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 19:07	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 19:07	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 19:07	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 19:07	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 19:07	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 19:07	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 19:07	WG1231972
2-Butanone (MEK)	68.5		1.28	5.00	1	02/03/2019 19:07	WG1231972
Methylene Chloride	U		1.07	2.50	1	02/03/2019 19:07	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 19:07	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 19:07	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 19:07	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 19:07	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 19:07	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 19:07	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 19:07	WG1231972
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 19:07	WG1231972
Tetrachloroethene	12.1		0.199	0.500	1	02/03/2019 19:07	WG1231972
Toluene	U		0.412	0.500	1	02/03/2019 19:07	WG1231972
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 19:07	WG1231972
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 19:07	WG1231972
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 19:07	WG1231972
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 19:07	WG1231972
Trichloroethene	3.22		0.153	0.500	1	02/03/2019 19:07	WG1231972
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 19:07	WG1231972
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 19:07	WG1231972
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 19:07	WG1231972
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 19:07	WG1231972
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 19:07	WG1231972

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19

ACCOUNT:

PES Environmental, Inc.- WA

PROJECT:

1413.001.05.305

SDG:

L1066228

DATE/TIME:

02/14/19 17:31

PAGE:

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Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Vinyl chloride	32.4		0.118	0.500	1	02/03/2019 19:07	<a href="#">WG1231972</a>
Xylenes, Total	U		0.316	1.50	1	02/03/2019 19:07	<a href="#">WG1231972</a>
<i>(S) Toluene-d8</i>	102			80.0-120		02/03/2019 19:07	<a href="#">WG1231972</a>
<i>(S) Dibromofluoromethane</i>	101			75.0-120		02/03/2019 19:07	<a href="#">WG1231972</a>
<i>(S) 4-Bromofluorobenzene</i>	83.0			77.0-126		02/03/2019 19:07	<a href="#">WG1231972</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC 3/11/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		1.05	25.0	1	02/03/2019 15:20	WG1231972
Acrylonitrile	U		0.873	5.00	1	02/03/2019 15:20	WG1231972
Benzene	U		0.0896	0.500	1	02/03/2019 15:20	WG1231972
Bromobenzene	U		0.133	0.500	1	02/03/2019 15:20	WG1231972
Bromodichloromethane	U		0.0800	0.500	1	02/03/2019 15:20	WG1231972
Bromochloromethane	U		0.145	0.500	1	02/03/2019 15:20	WG1231972
Bromoform	U		0.186	0.500	1	02/03/2019 15:20	WG1231972
Bromomethane	U		0.157	2.50	1	02/03/2019 15:20	WG1231972
n-Butylbenzene	U		0.143	0.500	1	02/03/2019 15:20	WG1231972
sec-Butylbenzene	U		0.134	0.500	1	02/03/2019 15:20	WG1231972
tert-Butylbenzene	U		0.183	0.500	1	02/03/2019 15:20	WG1231972
Carbon disulfide	U		0.101	0.500	1	02/03/2019 15:20	WG1231972
Carbon tetrachloride	U		0.159	0.500	1	02/03/2019 15:20	WG1231972
Chlorobenzene	U		0.140	0.500	1	02/03/2019 15:20	WG1231972
Chlorodibromomethane	U		0.128	0.500	1	02/03/2019 15:20	WG1231972
Chloroethane	U		0.141	2.50	1	02/03/2019 15:20	WG1231972
Chloroform	U		0.0860	0.500	1	02/03/2019 15:20	WG1231972
Chloromethane	U		0.153	1.25	1	02/03/2019 15:20	WG1231972
2-Chlorotoluene	U		0.111	0.500	1	02/03/2019 15:20	WG1231972
4-Chlorotoluene	U		0.0972	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/03/2019 15:20	WG1231972
1,2-Dibromoethane	U		0.193	0.500	1	02/03/2019 15:20	WG1231972
Dibromomethane	U		0.117	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichlorobenzene	U		0.101	0.500	1	02/03/2019 15:20	WG1231972
1,3-Dichlorobenzene	U		0.130	0.500	1	02/03/2019 15:20	WG1231972
1,4-Dichlorobenzene	U		0.121	0.500	1	02/03/2019 15:20	WG1231972
Dichlorodifluoromethane	U		0.127	2.50	1	02/03/2019 15:20	WG1231972
1,1-Dichloroethane	U		0.114	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichloroethane	U		0.108	0.500	1	02/03/2019 15:20	WG1231972
1,1-Dichloroethene	U		0.188	0.500	1	02/03/2019 15:20	WG1231972
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/03/2019 15:20	WG1231972
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/03/2019 15:20	WG1231972
1,2-Dichloropropane	U		0.190	0.500	1	02/03/2019 15:20	WG1231972
1,1-Dichloropropene	U		0.128	0.500	1	02/03/2019 15:20	WG1231972
1,3-Dichloropropane	U		0.147	1.00	1	02/03/2019 15:20	WG1231972
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/03/2019 15:20	WG1231972
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/03/2019 15:20	WG1231972
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/03/2019 15:20	WG1231972
2,2-Dichloropropane	U		0.0929	0.500	1	02/03/2019 15:20	WG1231972
Di-isopropyl ether	U		0.0924	0.500	1	02/03/2019 15:20	WG1231972
Ethylbenzene	U		0.158	0.500	1	02/03/2019 15:20	WG1231972
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/03/2019 15:20	WG1231972
2-Hexanone	U		0.757	5.00	1	02/03/2019 15:20	WG1231972
n-Hexane	U		0.305	5.00	1	02/03/2019 15:20	WG1231972
Iodomethane	U		0.377	10.0	1	02/03/2019 15:20	WG1231972
Isopropylbenzene	U		0.126	0.500	1	02/03/2019 15:20	WG1231972
p-Isopropyltoluene	U		0.138	0.500	1	02/03/2019 15:20	WG1231972
2-Butanone (MEK)	U		1.28	5.00	1	02/03/2019 15:20	WG1231972
Methylene Chloride	U		1.07	2.50	1	02/03/2019 15:20	WG1231972
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/03/2019 15:20	WG1231972
Methyl tert-butyl ether	U		0.102	0.500	1	02/03/2019 15:20	WG1231972
Naphthalene	U		0.174	2.50	1	02/03/2019 15:20	WG1231972
n-Propylbenzene	U		0.162	0.500	1	02/03/2019 15:20	WG1231972
Styrene	U		0.117	0.500	1	02/03/2019 15:20	WG1231972
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/03/2019 15:20	WG1231972
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/03/2019 15:20	WG1231972

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

JC 3/11/19





Collected date/time: 02/01/19 00:00

L1066228

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
Tetrachloroethene	U		0.199	0.500	1	02/10/2019 15:36	<a href="#">WG1235063</a>
Toluene	0.566		0.412	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
Trichloroethene	0.155	J	0.153	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/03/2019 15:20	<a href="#">WG1231972</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/03/2019 15:20	<a href="#">WG1231972</a>
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
Vinyl acetate	U		0.645	5.00	1	02/03/2019 15:20	<a href="#">WG1231972</a>
Vinyl chloride	U		0.118	0.500	1	02/03/2019 15:20	<a href="#">WG1231972</a>
Xylenes, Total	U		0.316	1.50	1	02/03/2019 15:20	<a href="#">WG1231972</a>
(S) Toluene-d8	103			80.0-120		02/03/2019 15:20	<a href="#">WG1231972</a>
(S) Toluene-d8	93.7			80.0-120		02/10/2019 15:36	<a href="#">WG1235063</a>
(S) Dibromofluoromethane	100			75.0-120		02/03/2019 15:20	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	82.0			77.0-126		02/03/2019 15:20	<a href="#">WG1231972</a>
(S) 4-Bromofluorobenzene	87.6			77.0-126		02/10/2019 15:36	<a href="#">WG1235063</a>
(S) 1,2-Dichloroethane-d4	93.5			70.0-130		02/10/2019 15:36	<a href="#">WG1235063</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Alkalinity	551000		2710	20000	1	02/12/2019 14:44	<a href="#">WG1235357</a>

Sample Narrative:

L1068057-01 WG1235357: Endpoint pH 4.5 HEADSPACE

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Chloride	43900		51.9	1000	1	02/08/2019 22:32	<a href="#">WG1234306</a>
Nitrate	38.9	J J	22.7	100	1	02/08/2019 22:32	<a href="#">WG1234306</a>
Sulfate	33300		77.4	5000	1	02/08/2019 22:32	<a href="#">WG1234306</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TOC (Total Organic Carbon)	18800		102	1000	1	02/08/2019 18:38	<a href="#">WG1234334</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Iron	6110		15.0	100	1	02/14/2019 11:10	<a href="#">WG1235757</a>
Manganese	659		0.250	5.00	1	02/14/2019 11:10	<a href="#">WG1235757</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Gasoline Range Organics-NWTPH	3100	J+	31.6	100	1	02/08/2019 15:57	<a href="#">WG1234480</a> JC 3/19/19
(S) a,a,a-Trifluorotoluene(FID)	85.8			78.0-120		02/08/2019 15:57	<a href="#">WG1234480</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Methane	4050		0.287	0.678	1	02/12/2019 11:18	<a href="#">WG1235211</a>
Ethane	39.9		0.296	1.29	1	02/12/2019 11:18	<a href="#">WG1235211</a>
Ethene	6.30		0.422	1.27	1	02/12/2019 11:18	<a href="#">WG1235211</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	2.79	J J J3	1.05	25.0	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Acrylonitrile	U		0.873	5.00	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Benzene	0.811		0.0896	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Bromobenzene	U		0.133	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Bromodichloromethane	U		0.0800	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Bromochloromethane	U		0.145	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Bromoform	U		0.186	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Bromomethane	U		0.157	2.50	1	02/08/2019 17:22	<a href="#">WG1234600</a>
n-Butylbenzene	U		0.143	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
sec-Butylbenzene	U		0.134	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
tert-Butylbenzene	U		0.183	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Carbon disulfide	U		0.101	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Carbon tetrachloride	U		0.159	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a> JC 3/13/19

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	02/08/2019 17:22	WG1234600
Chlorodibromomethane	U		0.128	0.500	1	02/08/2019 17:22	WG1234600
Chloroethane	U		0.141	2.50	1	02/08/2019 17:22	WG1234600
Chloroform	U		0.0860	0.500	1	02/08/2019 17:22	WG1234600
Chloromethane	U		0.153	1.25	1	02/08/2019 17:22	WG1234600
2-Chlorotoluene	U		0.111	0.500	1	02/08/2019 17:22	WG1234600
4-Chlorotoluene	U		0.0972	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/08/2019 17:22	WG1234600
1,2-Dibromoethane	U		0.193	0.500	1	02/08/2019 17:22	WG1234600
Dibromomethane	U		0.117	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichlorobenzene	U		0.101	0.500	1	02/08/2019 17:22	WG1234600
1,3-Dichlorobenzene	U		0.130	0.500	1	02/08/2019 17:22	WG1234600
1,4-Dichlorobenzene	U		0.121	0.500	1	02/08/2019 17:22	WG1234600
Dichlorodifluoromethane	U		0.127	2.50	1	02/08/2019 17:22	WG1234600
1,1-Dichloroethane	0.141	J U	0.114	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichloroethane	U		0.108	0.500	1	02/08/2019 17:22	WG1234600
1,1-Dichloroethene	9.92		0.188	0.500	1	02/08/2019 17:22	WG1234600
cis-1,2-Dichloroethene	6990		23.3	125	250	02/12/2019 14:16	WG1235840
trans-1,2-Dichloroethene	25.7		0.152	0.500	1	02/08/2019 17:22	WG1234600
1,2-Dichloropropane	U		0.190	0.500	1	02/08/2019 17:22	WG1234600
1,1-Dichloropropene	U		0.128	0.500	1	02/08/2019 17:22	WG1234600
1,3-Dichloropropane	U		0.147	1.00	1	02/08/2019 17:22	WG1234600
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/08/2019 17:22	WG1234600
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/08/2019 17:22	WG1234600
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/08/2019 17:22	WG1234600
2,2-Dichloropropane	U		0.0929	0.500	1	02/08/2019 17:22	WG1234600
Di-isopropyl ether	U		0.0924	0.500	1	02/08/2019 17:22	WG1234600
Ethylbenzene	U		0.158	0.500	1	02/08/2019 17:22	WG1234600
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/08/2019 17:22	WG1234600
2-Hexanone	U		0.757	5.00	1	02/08/2019 17:22	WG1234600
n-Hexane	U		0.305	5.00	1	02/08/2019 17:22	WG1234600
Iodomethane	U	J3	0.377	10.0	1	02/08/2019 17:22	WG1234600
Isopropylbenzene	U		0.126	0.500	1	02/08/2019 17:22	WG1234600
p-Isopropyltoluene	U		0.138	0.500	1	02/08/2019 17:22	WG1234600
2-Butanone (MEK)	U		1.28	5.00	1	02/08/2019 17:22	WG1234600
Methylene Chloride	U		1.07	2.50	1	02/08/2019 17:22	WG1234600
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/08/2019 17:22	WG1234600
Methyl tert-butyl ether	U		0.102	0.500	1	02/08/2019 17:22	WG1234600
Naphthalene	U		0.174	2.50	1	02/08/2019 17:22	WG1234600
n-Propylbenzene	U		0.162	0.500	1	02/08/2019 17:22	WG1234600
Styrene	U		0.117	0.500	1	02/08/2019 17:22	WG1234600
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/08/2019 17:22	WG1234600
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/08/2019 17:22	WG1234600
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/08/2019 17:22	WG1234600
Tetrachloroethene	U		0.199	0.500	1	02/08/2019 17:22	WG1234600
Toluene	U		0.412	0.500	1	02/08/2019 17:22	WG1234600
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/08/2019 17:22	WG1234600
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/08/2019 17:22	WG1234600
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/08/2019 17:22	WG1234600
1,1,2-Trichloroethane	U		0.186	0.500	1	02/08/2019 17:22	WG1234600
Trichloroethene	1.77		0.153	0.500	1	02/08/2019 17:22	WG1234600
Trichlorofluoromethane	U		0.130	2.50	1	02/08/2019 17:22	WG1234600
1,2,3-Trichloropropane	U		0.247	2.50	1	02/08/2019 17:22	WG1234600
1,2,4-Trimethylbenzene	U		0.123	0.500	1	02/08/2019 17:22	WG1234600
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/08/2019 17:22	WG1234600
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/08/2019 17:22	WG1234600

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Vinyl chloride	46.0		0.118	0.500	1	02/08/2019 17:22	<a href="#">WG1234600</a>
Xylenes, Total	U		0.316	1.50	1	02/08/2019 17:22	<a href="#">WG1234600</a>
(S) Toluene-d8	108			80.0-120		02/08/2019 17:22	<a href="#">WG1234600</a>
(S) Toluene-d8	99.8			80.0-120		02/12/2019 14:16	<a href="#">WG1235840</a>
(S) 4-Bromofluorobenzene	112			77.0-126		02/08/2019 17:22	<a href="#">WG1234600</a>
(S) 4-Bromofluorobenzene	103			77.0-126		02/12/2019 14:16	<a href="#">WG1235840</a>
(S) 1,2-Dichloroethane-d4	103			70.0-130		02/08/2019 17:22	<a href="#">WG1234600</a>
(S) 1,2-Dichloroethane-d4	106			70.0-130		02/12/2019 14:16	<a href="#">WG1235840</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/13/19



Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U	J3	1.05	25.0	1	02/08/2019 16:02	WG1234600
Acrylonitrile	U		0.873	5.00	1	02/08/2019 16:02	WG1234600
Benzene	U		0.0896	0.500	1	02/08/2019 16:02	WG1234600
Bromobenzene	U		0.133	0.500	1	02/08/2019 16:02	WG1234600
Bromodichloromethane	U		0.0800	0.500	1	02/08/2019 16:02	WG1234600
Bromochloromethane	U		0.145	0.500	1	02/08/2019 16:02	WG1234600
Bromoform	U		0.186	0.500	1	02/08/2019 16:02	WG1234600
Bromomethane	U		0.157	2.50	1	02/08/2019 16:02	WG1234600
n-Butylbenzene	U		0.143	0.500	1	02/08/2019 16:02	WG1234600
sec-Butylbenzene	U		0.134	0.500	1	02/08/2019 16:02	WG1234600
tert-Butylbenzene	U		0.183	0.500	1	02/08/2019 16:02	WG1234600
Carbon disulfide	U		0.101	0.500	1	02/08/2019 16:02	WG1234600
Carbon tetrachloride	U		0.159	0.500	1	02/08/2019 16:02	WG1234600
Chlorobenzene	U		0.140	0.500	1	02/08/2019 16:02	WG1234600
Chlorodibromomethane	U		0.128	0.500	1	02/08/2019 16:02	WG1234600
Chloroethane	U		0.141	2.50	1	02/08/2019 16:02	WG1234600
Chloroform	U		0.0860	0.500	1	02/08/2019 16:02	WG1234600
Chloromethane	U		0.153	1.25	1	02/08/2019 16:02	WG1234600
2-Chlorotoluene	U		0.111	0.500	1	02/08/2019 16:02	WG1234600
4-Chlorotoluene	U		0.0972	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	02/08/2019 16:02	WG1234600
1,2-Dibromoethane	U		0.193	0.500	1	02/08/2019 16:02	WG1234600
Dibromomethane	U		0.117	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichlorobenzene	U		0.101	0.500	1	02/08/2019 16:02	WG1234600
1,3-Dichlorobenzene	U		0.130	0.500	1	02/08/2019 16:02	WG1234600
1,4-Dichlorobenzene	U		0.121	0.500	1	02/08/2019 16:02	WG1234600
Dichlorodifluoromethane	U		0.127	2.50	1	02/08/2019 16:02	WG1234600
1,1-Dichloroethane	U		0.114	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichloroethane	U		0.108	0.500	1	02/08/2019 16:02	WG1234600
1,1-Dichloroethene	U		0.188	0.500	1	02/08/2019 16:02	WG1234600
cis-1,2-Dichloroethene	U		0.0933	0.500	1	02/08/2019 16:02	WG1234600
trans-1,2-Dichloroethene	U		0.152	0.500	1	02/08/2019 16:02	WG1234600
1,2-Dichloropropane	U		0.190	0.500	1	02/08/2019 16:02	WG1234600
1,1-Dichloropropene	U		0.128	0.500	1	02/08/2019 16:02	WG1234600
1,3-Dichloropropane	U		0.147	1.00	1	02/08/2019 16:02	WG1234600
cis-1,3-Dichloropropene	U		0.0976	0.500	1	02/08/2019 16:02	WG1234600
trans-1,3-Dichloropropene	U		0.222	0.500	1	02/08/2019 16:02	WG1234600
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	02/08/2019 16:02	WG1234600
2,2-Dichloropropane	U		0.0929	0.500	1	02/08/2019 16:02	WG1234600
Di-isopropyl ether	U		0.0924	0.500	1	02/08/2019 16:02	WG1234600
Ethylbenzene	U		0.158	0.500	1	02/08/2019 16:02	WG1234600
Hexachloro-1,3-butadiene	U		0.157	1.00	1	02/08/2019 16:02	WG1234600
2-Hexanone	U		0.757	5.00	1	02/08/2019 16:02	WG1234600
n-Hexane	U		0.305	5.00	1	02/08/2019 16:02	WG1234600
Iodomethane	U	J3	0.377	10.0	1	02/08/2019 16:02	WG1234600
Isopropylbenzene	U		0.126	0.500	1	02/08/2019 16:02	WG1234600
p-Isopropyltoluene	U		0.138	0.500	1	02/08/2019 16:02	WG1234600
2-Butanone (MEK)	U		1.28	5.00	1	02/08/2019 16:02	WG1234600
Methylene Chloride	U		1.07	2.50	1	02/08/2019 16:02	WG1234600
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	02/08/2019 16:02	WG1234600
Methyl tert-butyl ether	U		0.102	0.500	1	02/08/2019 16:02	WG1234600
Naphthalene	U		0.174	2.50	1	02/08/2019 16:02	WG1234600
n-Propylbenzene	U		0.162	0.500	1	02/08/2019 16:02	WG1234600
Styrene	U		0.117	0.500	1	02/08/2019 16:02	WG1234600
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	02/08/2019 16:02	WG1234600
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	02/08/2019 16:02	WG1234600

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 02/07/19 00:00

L1068057

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
Tetrachloroethene	U		0.199	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
Toluene	U		0.412	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
1,2,3-Trichlorobenzene	U		0.164	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
1,2,4-Trichlorobenzene	U		0.355	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
1,1,1-Trichloroethane	U		0.0940	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
1,1,2-Trichloroethane	U		0.186	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
Trichloroethene	U		0.153	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
Trichlorofluoromethane	U		0.130	2.50	1	02/08/2019 16:02	<a href="#">WG1234600</a>
1,2,3-Trichloropropane	U		0.247	2.50	1	02/08/2019 16:02	<a href="#">WG1234600</a>
1,2,4-Trimethylbenzene	0.341	U	0.123	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
1,3,5-Trimethylbenzene	U		0.124	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
Vinyl acetate	U		0.645	5.00	1	02/08/2019 16:02	<a href="#">WG1234600</a>
Vinyl chloride	U		0.118	0.500	1	02/08/2019 16:02	<a href="#">WG1234600</a>
Xylenes, Total	U		0.316	1.50	1	02/08/2019 16:02	<a href="#">WG1234600</a>
(S) Toluene-d8	103			80.0-120		02/08/2019 16:02	<a href="#">WG1234600</a>
(S) 4-Bromofluorobenzene	103			77.0-126		02/08/2019 16:02	<a href="#">WG1234600</a>
(S) 1,2-Dichloroethane-d4	104			70.0-130		02/08/2019 16:02	<a href="#">WG1234600</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Wet Chemistry by Method 2320 B-2011

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Alkalinity	302000		2710	20000	1	01/25/2019 15:03	<a href="#">WG1228020</a>

Sample Narrative:

L1063581-08 WG1228020: Endpoint pH 4.5 headspace

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	56200		51.9	1000	1	01/23/2019 20:30	<a href="#">WG1227335</a>
Nitrate	U		22.7	100	1	01/23/2019 20:30	<a href="#">WG1227335</a>
Sulfate	43200		77.4	5000	1	01/23/2019 20:30	<a href="#">WG1227335</a>

Wet Chemistry by Method 9060A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
TOC (Total Organic Carbon)	5200		102	1000	1	01/28/2019 16:27	<a href="#">WG1229248</a>

Metals (ICPMS) by Method 6020B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Iron	6010		15.0	100	1	01/24/2019 18:01	<a href="#">WG1227051</a>
Manganese	646		0.250	5.00	1	01/24/2019 18:01	<a href="#">WG1227051</a>

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	663	J +	31.6	100	1	01/24/2019 06:39	<a href="#">WG1227572</a> <span style="float: right;">JC 3/19/19 &amp; JC 3/26/19</span>
(S) a,a,a-Trifluorotoluene(FID)	95.0			78.0-120		01/24/2019 06:39	<a href="#">WG1227572</a>

Volatile Organic Compounds (GC) by Method RSK175

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Methane	4210		0.287	0.678	1	01/25/2019 12:13	<a href="#">WG1227529</a>
Ethane	2.10		0.296	1.29	1	01/25/2019 12:13	<a href="#">WG1227529</a>
Ethene	100		0.422	1.27	1	01/25/2019 12:13	<a href="#">WG1227529</a>

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Acetone	1.51	J J	1.05	25.0	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Acrylonitrile	U		0.873	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Benzene	U		0.0896	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromobenzene	U		0.133	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromodichloromethane	U		0.0800	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromochloromethane	U		0.145	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromoform	U		0.186	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Bromomethane	U		0.157	2.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
n-Butylbenzene	U		0.143	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
sec-Butylbenzene	U		0.134	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
tert-Butylbenzene	U		0.183	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Carbon disulfide	U		0.101	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a> <span style="float: right;">JC 3/11/19</span>
Carbon tetrachloride	U		0.159	0.500	1	01/24/2019 15:01	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Collected date/time: 01/22/19 14:10

L1063581

Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Chlorobenzene	U		0.140	0.500	1	01/24/2019 15:01	WG1227840
Chlorodibromomethane	U		0.128	0.500	1	01/24/2019 15:01	WG1227840
Chloroethane	U		0.141	2.50	1	01/24/2019 15:01	WG1227840
Chloroform	U		0.0860	0.500	1	01/24/2019 15:01	WG1227840
Chloromethane	U		0.153	1.25	1	01/24/2019 15:01	WG1227840
2-Chlorotoluene	U		0.111	0.500	1	01/24/2019 15:01	WG1227840
4-Chlorotoluene	U		0.0972	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dibromo-3-Chloropropane	U		0.325	2.50	1	01/24/2019 15:01	WG1227840
1,2-Dibromoethane	U		0.193	0.500	1	01/24/2019 15:01	WG1227840
Dibromomethane	U		0.117	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichlorobenzene	U		0.101	0.500	1	01/24/2019 15:01	WG1227840
1,3-Dichlorobenzene	U		0.130	0.500	1	01/24/2019 15:01	WG1227840
1,4-Dichlorobenzene	U		0.121	0.500	1	01/24/2019 15:01	WG1227840
Dichlorodifluoromethane	U		0.127	2.50	1	01/24/2019 15:01	WG1227840
1,1-Dichloroethane	U		0.114	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichloroethane	U		0.108	0.500	1	01/24/2019 15:01	WG1227840
1,1-Dichloroethene	6.83		0.188	0.500	1	01/24/2019 15:01	WG1227840
cis-1,2-Dichloroethene	1230		0.933	5.00	10	01/27/2019 21:34	WG1228835
trans-1,2-Dichloroethene	2.88		0.152	0.500	1	01/24/2019 15:01	WG1227840
1,2-Dichloropropane	U		0.190	0.500	1	01/24/2019 15:01	WG1227840
1,1-Dichloropropene	U		0.128	0.500	1	01/24/2019 15:01	WG1227840
1,3-Dichloropropane	U		0.147	1.00	1	01/24/2019 15:01	WG1227840
cis-1,3-Dichloropropene	U		0.0976	0.500	1	01/24/2019 15:01	WG1227840
trans-1,3-Dichloropropene	U		0.222	0.500	1	01/24/2019 15:01	WG1227840
trans-1,4-Dichloro-2-butene	U		0.257	5.00	1	01/24/2019 15:01	WG1227840
2,2-Dichloropropane	U		0.0929	0.500	1	01/24/2019 15:01	WG1227840
Di-isopropyl ether	U		0.0924	0.500	1	01/24/2019 15:01	WG1227840
Ethylbenzene	U		0.158	0.500	1	01/24/2019 15:01	WG1227840
Hexachloro-1,3-butadiene	U		0.157	1.00	1	01/24/2019 15:01	WG1227840
2-Hexanone	U		0.757	5.00	1	01/24/2019 15:01	WG1227840
n-Hexane	U		0.305	5.00	1	01/24/2019 15:01	WG1227840
Iodomethane	U		0.377	10.0	1	01/24/2019 15:01	WG1227840
Isopropylbenzene	U		0.126	0.500	1	01/24/2019 15:01	WG1227840
p-Isopropyltoluene	U		0.138	0.500	1	01/24/2019 15:01	WG1227840
2-Butanone (MEK)	U		1.28	5.00	1	01/24/2019 15:01	WG1227840
Methylene Chloride	U		1.07	2.50	1	01/24/2019 15:01	WG1227840
4-Methyl-2-pentanone (MIBK)	U		0.823	5.00	1	01/24/2019 15:01	WG1227840
Methyl tert-butyl ether	U		0.102	0.500	1	01/24/2019 15:01	WG1227840
Naphthalene	U		0.174	2.50	1	01/24/2019 15:01	WG1227840
n-Propylbenzene	U		0.162	0.500	1	01/24/2019 15:01	WG1227840
Styrene	U		0.117	0.500	1	01/24/2019 15:01	WG1227840
1,1,1,2-Tetrachloroethane	U		0.120	0.500	1	01/24/2019 15:01	WG1227840
1,1,2,2-Tetrachloroethane	U		0.130	0.500	1	01/24/2019 15:01	WG1227840
1,1,2-Trichlorotrifluoroethane	U		0.164	0.500	1	01/24/2019 15:01	WG1227840
Tetrachloroethene	98.2		0.199	0.500	1	01/24/2019 15:01	WG1227840
Toluene	U		0.412	0.500	1	01/24/2019 15:01	WG1227840
1,2,3-Trichlorobenzene	U		0.164	0.500	1	01/24/2019 15:01	WG1227840
1,2,4-Trichlorobenzene	U		0.355	0.500	1	01/24/2019 15:01	WG1227840
1,1,1-Trichloroethane	U		0.0940	0.500	1	01/24/2019 15:01	WG1227840
1,1,2-Trichloroethane	U		0.186	0.500	1	01/24/2019 15:01	WG1227840
Trichloroethene	179		0.153	0.500	1	01/24/2019 15:01	WG1227840
Trichlorofluoromethane	U		0.130	2.50	1	01/24/2019 15:01	WG1227840
1,2,3-Trichloropropane	U		0.247	2.50	1	01/24/2019 15:01	WG1227840
1,2,4-Trimethylbenzene	U		0.123	0.500	1	01/24/2019 15:01	WG1227840
1,2,3-Trimethylbenzene	U		0.0739	0.500	1	01/24/2019 15:01	WG1227840
1,3,5-Trimethylbenzene	U		0.124	0.500	1	01/24/2019 15:01	WG1227840

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

JC 3/11/19





Volatile Organic Compounds (GC/MS) by Method 8260C

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
Vinyl acetate	U		0.645	5.00	1	01/24/2019 15:01	<a href="#">WG1227840</a>
Vinyl chloride	738		1.18	5.00	10	01/27/2019 21:34	<a href="#">WG1228835</a>
Xylenes, Total	U		0.316	1.50	1	01/24/2019 15:01	<a href="#">WG1227840</a>
(S) Toluene-d8	106			80.0-120		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) Dibromofluoromethane	99.6			75.0-120		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) 4-Bromofluorobenzene	89.5			77.0-126		01/27/2019 21:34	<a href="#">WG1228835</a>
(S) Toluene-d8	99.3			80.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) Dibromofluoromethane	104			75.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) a,a,a-Trifluorotoluene	91.6			80.0-120		01/24/2019 15:01	<a href="#">WG1227840</a>
(S) 4-Bromofluorobenzene	95.0			77.0-126		01/24/2019 15:01	<a href="#">WG1227840</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

JC3/11/19

**APPENDIX F**  
**SAMPLING AND ANALYSIS PLAN**



A Report Prepared for:  
BMR-Dexter LLC  
17190 Bernardo Center Drive  
San Diego, CA 92128

**FINAL RI/FS SAMPLING AND ANALYSIS PLAN  
AMERICAN LINEN SUPPLY CO-DEXTER AVENUE SITE  
700 DEXTER AVENUE NORTH  
SEATTLE, WASHINGTON**

**Facility Site Identification Number: 3573  
Cleanup Site Identification Number: 12004**

**DECEMBER 4, 2019**

By:

A handwritten signature in blue ink, appearing to read 'K. Springstead', is written over a horizontal line.

Karsten W. Springstead, LG  
Project Geologist

A handwritten signature in blue ink, appearing to read 'William R. Haldeman', is written over a horizontal line.

William R. Haldeman, LHG  
Associate Hydrogeologist

**1413.001.02**

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Figure 2	Proposed RI/FS Explorations and Monitoring Network
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## 1.0 INTRODUCTION

This Sampling and Analysis Plan (“SAP”) has been prepared to support field investigation activities to be conducted at the American Linen Supply Co Dexter Avenue Site (Site) located at 700 Dexter Avenue North, Seattle, Washington (Figure 1). This SAP defines applicable field procedures and protocols to be followed during the field investigations performed during the remedial investigation. This SAP, and associated Quality Assurance Project Plan (“QAPP”) that specifies laboratory procedures and quality control documentation, are included as appendices to the Remedial Investigation/Feasibility Study (“RI/FS”) Work Plan (“Work Plan”) that has been prepared on behalf of BMR-Dexter LLC (“BMRD”) for the Site (PES, 2019).

This SAP defines applicable procedures and protocols to be followed during field investigations. The purpose of this SAP is to ensure that procedures are followed that will collect sufficiently high quality data to support the project data quality objectives (“DQOs”) in order to address the data gaps identified in the Work Plan. Should additional environmental sampling be required in the future, this SAP will be modified and amended as necessary to address the sampling.

## 2.0 FIELD PROCEDURES

The proposed RI will include monitoring well installation, soil sampling and analysis, hydraulic conductivity testing, groundwater level measurement, groundwater sampling and analysis, and soil vapor sampling and analysis. Table 1 provides a summary of the proposed monitoring wells, the rationale for each monitoring location, the planned depth of the exploration, and the planned parameters to be analyzed. Figure 2 shows the locations of the proposed monitoring wells and the existing monitoring wells and soil vapor monitoring points to be monitored during the RI.

### 2.1 Sample Designation

Each sample collected during the interim action will be assigned a unique alphanumeric identifier. The identifier will either be pre-labeled prior to entering the field or filled out in indelible ink and affixed to appropriate containers using waterproof labels immediately prior to sample collection. In addition to the sample identifier and number, the sample labels will include the following information: client name, project name and number, date and time of sample collection, sampler's initials, analytical method, and analyte preservative(s), if any. Field collection information will be maintained as each sample is collected, which will at a minimum include the sample location and depth, sample number and identifier, and other observations regarding the sample.

#### 2.1.1 Soil

Soil samples collected from monitoring well borings, drums, or waste containers will be assigned a unique alphanumeric identifier, including the three components listed below:

- A prefix of MW for monitoring well, D for drum, or B for bin;
- The boring or container identification number; and
- The top of the sample collection interval (depth bgs) or location within the container, if applicable.

For example, a sample collected between 20 and 20.5 feet bgs from boring MW-310 would be numbered MW-310-20. The sample identification will be placed on the sample label, field report form, and chain-of-custody ("COC") form.

#### 2.1.2 Groundwater

Groundwater samples collected from monitoring wells will be assigned a unique alphanumeric identifier, including up to four components:

- A prefix of MW for monitoring well;
- The well identification number; and
- The date in the MMDDYY format.

For example, a groundwater sample collected from monitoring well MW-320 on September 28, 2019, would be numbered MW-320-092819. The sample identification will be placed on the sample label, field report form, and COC.

### **2.1.3 Soil Vapor**

Soil vapor samples will be assigned a unique alphanumeric identifier, including the three components listed below:

- A prefix of SV;
- The vapor probe identification number; and
- The date in the MMDDYY format.

For example, a soil vapor sample collected from vapor probe SV03 on September 28, 2019, would be numbered SV03-092819. The sample identification will be placed on the sample label, field report form, and COC.

### **2.1.4 Field Quality Assurance**

The field quality assurance (“QA”) samples will be assigned a unique alphanumeric identifier. The field QA samples for soil and groundwater sampling will start at MW-901 for field duplicates, EQ for equipment rinsate blanks, and TB for transport (trip) blanks. For example, a field duplicate sample collected on February 28, 2020, would be labeled MW-901-022820. The corresponding locations where the field duplicates and equipment rinsate blanks are collected will be recorded on the Groundwater Sampling Form (Appendix A) for the applicable location sampled.

## **2.2 Soil Sampling Procedures**

Prior to drilling, applicable permits and access agreements will be procured, utilities will be cleared at each drilling location, sampling equipment will be properly decontaminated (see Section 4.15), and applicable health and safety procedures will be reviewed. The monitoring well borings will be advanced using a Sonic rotary vibration drilling rig (“Sonic” rig) operated by a subcontracted drilling firm.

Samples will be collected continuously throughout the total depth of the boring. Samples will be extracted from the sampler, monitored for odors, screened for VOCs with a photoionization detector (“PID”), and logged for lithologic characterization consistent with ASTM D-2488. When a fine-grained soil sample is to be collected for laboratory hydraulic conductivity testing, the driller will push a Shelby tube or drive a larger-diameter ring sampler through the desired interval to retrieve the relatively undisturbed sample. All observations and measurements will be recorded on a Field Lithologic Log (Appendix A).

The planned soil samples to be submitted for laboratory analysis are presented in Table 1 using the following methods:



- VOCs by EPA Method 8260;
- GRO by Ecology Method NWTPH-Gx;
- Grain-size analysis with sieve and hydrometer (or laser) by American Society for Testing and Materials (“ASTM”) Methods D421/D422/D4464;
- Dry bulk density by ASTM Method D2937;
- Total organic carbon (“TOC”) and fraction organic carbon (“foc”) by the Walkley-Black method; and
- Vertical hydraulic conductivity analysis using a flexible water parameter by ASTM Method D5084.

Samples for VOC analysis will be collected using EPA Method 5035 after the sample core is screened but before the sample core is logged. Additional sample volume for physical or remediation parameter testing will be collected using either decontaminated stainless steel or plastic sampling tools. Chemical and physical testing will be conducted by Pace Analytical (“Pace”) of Mount Juliet, Tennessee, a laboratory accredited by Ecology and by the National Environmental Laboratories Accreditation Program. All chemical analyses will be performed using U.S. Environmental Protection Agency (“EPA”) or Ecology analytical methods following and consistent with the procedures described in the QAPP (Appendix M of the Interim Action Work Plan; PES, 2018). Prior to analysis, all samples will be maintained according to the appropriate holding times and temperatures for each analysis (Table 3). Table 4 presents the laboratory method detection limits and reported detection limits for the soil analyses. Field QA samples will be collected as described in Section 2.9 and will consist of field duplicates, equipment rinsate blanks, and transport (trip) blanks as summarized in Table 5.

### **2.3 Monitoring Well Installation**

The wells will be constructed in accordance with Chapter 173-160 of the Washington Administrative Code. The 30 monitoring wells will be installed at the locations shown on Figure 2 to the depths shown in Table 1. Each well will be completed in a nominal 6-inch borehole housing 2-inch diameter casing. The wells will be completed with nominal 2-inch-diameter, flush-threaded Schedule 40 PVC, with 10-foot-long 0.020-inch slot width screens and 2/12 Lapis Lustre silica sand outside of the screen. The filter pack in each well will extend to approximately 2 feet above the top of the well screen, and a solid bentonite (chip or pellet) or bentonite grout seal will extend from the top of the filter pack to within 2 feet of the ground surface. All materials will be placed concurrent with casing withdrawal, and bentonite chips placed above the water table will be hydrated with an equal volume of water. The surface monument protecting each well will be set in concrete and completed flush with grade. As-built construction details, including the volume of materials used, will be recorded on a Field Lithologic Log (Appendix A). A typical monitoring well completion diagram is shown on Figure 3.

## **2.4 Well Development**

Each new injection and performance monitoring well will be developed before it is used for its intended purpose. Development will involve repeated surging (with a surge block or bailer) and pumping until the color of the discharge water does not change with additional development. Turbidity will be measured during development, and if possible, the well will be developed until the measured turbidity is below 100 Nephelometric turbidity units (“NTU”). If the well pumps dry during development, it will be allowed to refill, and up to one additional well casing volume will be removed. Water levels, amount of water removed, and observations of the discharged water will be recorded on a Well Development Form or equivalent (Appendix A). All development water will be handled as described in Section 2.14.

## **2.5 Groundwater Monitoring**

### **2.5.1 Groundwater Level Measurements**

Groundwater levels will be measured in each well in the network during four quarterly water level monitoring events over a one year period. Groundwater levels will be measured using the following procedures:

1. Open the well monument, remove any standing water and debris (i.e., sediment, vegetation, or refuse) prior to removing the well cap;
2. Open the well by carefully removing the cap. Allow the riser to vent if under pressure or vacuum. Record the time at which the well is initially vented to the atmosphere (i.e., time of well cap removal). Document initial conditions (i.e., well over-pressurized or under-pressurized relative to the atmosphere) on the Water Level Data Form (Appendix A).
3. After opening and venting the well, measure the initial water level to the nearest 0.01 foot from the surveyed location, using an electronic water level probe.
4. Measure the water level at the surveyed measuring point (“MP”) on the north side of the top of the PVC casing.
5. Duplicate the water level measurement in each well in the field to ensure that the reading is accurate. Record all results (times, measured values, etc.) on the Water Level Data Form.
6. Rinse the portion of the water level probe that contacted water with distilled water between each well to avoid cross contamination.
7. Replace the well cap upon completing the water level measurement.
8. If needed, check the time needed for water level equilibration after cap removal by measuring the water level in a well, allowing the well to vent for a more extended period (at least 1 hour), and measuring the water level a second time. Record all results on the Water Level Data Form.
9. Upon completion of the water level measurements, replace and tightly seal each of the surface monuments.

Additionally, transducers will be installed in selected monitoring wells and continuously monitored throughout the RI monitoring year. Preliminarily, the wells to be instrumented include Shallow Zone wells MW-155 and MW-320; Intermediate A Zone wells MW109, MW-306, MW-308, MW-325, and MW-327; Intermediate B Zone wells MW126, MW-143, MW-307, MW-316, and MW-322; and Deep Zone wells MW124, MW-153, MW-160, MW-319, MW-324, MW-326, and MW-328. The transducer list may be modified based on well installation and development observations, access considerations, or other subsurface activities conducted at the Site.

## 2.5.2 Groundwater Sampling

Groundwater quality samples will be collected from each well in the RI monitoring network (Figure 2) during four quarterly sampling events. The RI groundwater quality monitoring network includes the interim action performance monitoring wells located outside of the Property, with 94 wells to be sampled. Table 1 of the Work Plan provides the well completions for existing monitoring wells for determining the pump intake depth, and Appendix A of this SAP provides sample field forms.

**Sampling Preparation.** Prior to the initiation of any sampling activities, all of the necessary field equipment and documentation materials (e.g. field sampling forms) will be prepared. A summary of the sampling tools and equipment to be used during the sampling activities are listed in Table 6.

Laboratory supplied sample bottles will be inspected for proper preservative (Table 3). The depth to water will be measured prior to sampling using the procedures outlined above.

**Low-Flow Purging.** For monitoring wells with water levels less than 20 feet below the top of casing, a peristaltic sampling pump fitted with disposable polyethylene and silicon (at the pump head only) tubing will be used to collect samples. New (disposable) polyethylene tubing will be slowly lowered into the well until the intake is placed at the mid-point of the well screen (see Table 2). For monitoring wells with water levels greater than 20 feet below the top of casing, a clean stainless steel bladder pump with dedicated polyethylene tubing attached to the pump head will be used to collect samples. The bladder pump and attached tubing will be slowly lowered into the well until the pump intake is at the mid-point of the well screen. The monitoring well will be purged with the bladder pump fitted with dedicated polyethylene tubing which extends from the pump head to the discharge.

The start time will be recorded on a Groundwater Sampling Form (Appendix A), and the pump will be started. Pumping rates will be measured with a stopwatch and graduated cylinder, graduated cup, or volatile organic analysis (“VOA”) vial, depending on flow rate. Low flow purging will be conducted at a pumping rate less than 500 milliliters per minute (“mL/min”).

During purging, the water level will be measured approximately every 3 to 5 minutes, until a steady water level is determined. If possible, a drawdown of 0.3 feet or less will be maintained in the well. The water level in the well will be maintained above the intake at all times. If the well yield is sufficiently poor that the water level drops to the level of the intake, the pump will

be stopped until the water level recovers to near the pre-pumping level. The process will then be repeated until the field parameters have stabilized. All measured water levels and pumping rate changes will be recorded on a Groundwater Sampling Form.

**Field Parameter Measurements.** All meters will be calibrated at the start of each work period, and meters will be recalibrated, as necessary, during or after the work period. Calibration procedures (including time, standards used, and calibration results) will be noted in the field notes. Field indicator parameters will be measured approximately every 3 to 5 minutes during purging. Field parameters will include pH, specific conductance, temperature, dissolved oxygen (“DO”), and oxidation-reduction potential (“ORP”). Measurements will be recorded to the following standards:

- pH to  $\pm 0.01$  units;
- Specific conductance to  $\pm 1$  micromho;
- Temperature to  $\pm 0.1^\circ\text{C}$ ;
- DO to  $\pm 0.1$  milligrams per liter (“mg/L”); and
- ORP to  $\pm 1$  millivolts.

Samples will not be collected until these parameters have stabilized for three consecutive readings to the following criteria:

- pH to  $\pm 0.1$  pH unit;
- Conductivity to  $\pm 3$  percent;
- Temperature to  $\pm 3$  percent; and
- DO to  $\pm 10$  percent.

ORP measurements will not be used to determine stability. If field parameters do not stabilize after 1 hour of pumping, a sample will be collected. Well purging data will be recorded on a Groundwater Sampling Form.

**Sample Collection.** Upon completion of purging, samples will be collected from the discharge end of the pump tubing. The same pump rate used at the end of well purging will be used during sample collection. Groundwater samples will be submitted for the laboratory analyses presented in Table 3. VOA vials will be filled by allowing the sample water to pour down the inside of the vials and without splashing onto the base. The containers will be filled to eliminate any headspace and the seal/lid will be secured. All sample containers will be prepared and provided by the analytical laboratory (Table 3).

After collection of the sample from each well, the pump will be disconnected from the tubing, the well cap will be replaced, and the well cap or monument locked. Decontamination and purge water will be handled in accordance to the residuals management procedures outlined in Section 2.14.

**Field Quality Assurance.** Field QA samples will be collected as described in Section 2.9. Field QA samples will consist of field duplicates, equipment rinsate blanks, and transport (trip) blanks as summarized in Table 5.

**Laboratory Analysis.** Chemical will be conducted by Pace using EPA or Ecology analytical methods following and consistent with the procedures described in the QAPP (Appendix M of the Interim Action Work Plan; PES, 2018). Prior to analysis, all samples will be maintained according to the appropriate holding times and temperatures for each analysis (Table 3). Table 7 presents the laboratory method detection limits and reported detection limits for the groundwater analyses. Groundwater samples collected at each location will be analyzed as detailed in Tables 2 and 3 using the following methods:

- VOCs by EPA Method 8260C;
- GRO by Ecology Method NWTPH-Gx;
- Alkalinity by Standard Methods 2320B-2011;
- Chloride, Nitrate, Sulfate by EPA Method 9056A;
- TOC by EPA Method 9060A;
- Total Iron and Manganese by EPA Method 6020A;
- Ferrous Iron (in the field) by Hach Kit IR-18C; and
- Methane, Ethane, Ethene by EPA Method RSK175.

## **2.6 Soil Vapor Sampling**

Soil vapor samples will be collected using the following procedures:

1. Perform a shut-in test to test for leaks in above-ground sampling equipment (flow controller, pressure gauge, sampling manifold and fittings). PES will apply a vacuum to the equipment (using a syringe or peristaltic pump) and confirm the sampling equipment does not lose more than one inch of Mercury (Hg) per minute. If a leak is identified, the fittings will be re-tightened and the shut-in test repeated;
2. Calculate the purge volume based on the casing inside diameter and length, and the sand pack and dry bentonite pore volumes. Approximately three pore volumes will be purged at a rate below to 200 mL/min using either a peristaltic pump, syringe, or a field meter pump;
3. Monitor biodegradation parameters (oxygen, carbon dioxide, and methane) and VOCs using field gas meters during the purging;
4. Install a plastic shroud sealed at the surface with a weighted chain or sand-filled hose;
5. Perform leak testing during purging and sampling using an inert tracer gas (ultra-high purity helium) and a field helium gas meter. The helium will be maintained at a concentration of approximately 20 percent within the shroud. If helium is detected during purging at a concentration greater than 10 percent of the shroud concentration, the vapor probe surface will be re-sealed with quick-setting concrete, allowed to set for 20 minutes, and the leak test repeated;

6. Collect soil vapor samples in laboratory provided batch-certified summa canisters. The samples will be collected at 200 mL/min. The canister valve will be closed while the canister remains under negative pressure; and
7. Submit the samples to Pace for VOC analysis by EPA Method TO-15.

## **2.7 Aquifer Testing**

Falling and rising head slug tests will be conducted in up to eight selected monitoring wells. The wells will be selected after installation of the new monitoring wells, with the intent to test wells in representative areas around the Property, wells screened in different lithologies, and wells screened in different water-bearing zones, if possible. At least one test will be conducted in a monitoring well where grain size data were used to estimate hydraulic conductivity. The following procedures will be used to conduct the tests:

1. An initial static groundwater level will be measured with an electric well probe and/or pressure transducer;
2. At each monitoring well, a pressure transducer and downhole data logger will be lowered into the well casing to measure and store water level data. The data logger will be temporarily connected to a laptop computer to determine when the water level inside the well has reached equilibrium (i.e., static) conditions.
3. Once the water level has equilibrated, the data logger will be programmed to record water level data during the test.
4. To perform each slug test, a solid-stock PVC cylinder (slug) will be introduced into the well to affect a sudden rise in water level. The recovery of the water level will then be recorded using the electronic pressure transducer and data logger until the water level inside the well has equilibrated to pretest conditions.
5. Following equilibration of the water level, a rising head test will be conducted by rapidly withdrawing the slug and recording the water level response using the pressure transducer and data logger. The water level readings and elapsed time will be recorded as rapidly as necessary to monitor the changing water levels; and
6. Water level and elapsed time readings will continue to be recorded until the water level has recovered to at least 90 percent of the original measurement.

Two to three slug tests will be conducted in each tested well to provide a measure of test variability. Any depths to groundwater measured using electronic water level probe will be recorded on a Slug Test Data Form (Appendix A). All downhole equipment will be decontaminated using the procedures described in Section 2.10.

## **2.8 Horizontal Positioning and Vertical Control**

The locations of the new performance monitoring wells will be surveyed after the initial well installations. Per current Ecology guidelines, the horizontal coordinates will reference the Washington State Plane System North Zone (“NAD 83”), and the vertical coordinates will reference the North American Vertical Datum of 1988 (“NAVD 88”). The elevations of the

monitoring well rim (north side), top of casing (north side), and the adjacent ground surface will be surveyed. Each sampling location will be photographed for documentation of the sample location.

## **2.9 Field Quality Assurance**

Field QA samples will be used to evaluate the efficiency of field decontamination and processing procedures. Laboratory QA/QC protocols are defined in the QAPP (Appendix M of the Interim Action Work Plan; PES, 2018). Field QA samples will consist of field duplicates, equipment rinsate blanks, and transport (trip) blanks as summarized in Table 5. All field QA samples will be documented in the field notes and verified by the QA/QC manager or designee. Details of the field duplicate samples will be kept in the field notes only so that the laboratory is blind to the origin of the sample.

### **2.9.1 Field Duplicates**

Field duplicates will be collected to evaluate the variability of the sample concentrations due to sample processing. Field duplicate samples will be collected along with the original sample as a split from one homogenized sample and analyzed for the identical chemical analyte list as the media from which they were collected. Field duplicate samples of each matrix sampled will be collected at a frequency of one duplicate per 20 samples.

### **2.9.2 Equipment Blanks**

An equipment blank (also known as a rinsate blank or field blank) is a sample of reagent grade or distilled water poured into or over or pumped through the sampling device, collected in a sample container, and transported to the laboratory for analysis. Equipment blanks will be used to assess the effectiveness of equipment decontamination procedures. One equipment blank will be collected for every 20 project samples being collected using non-dedicated equipment. Equipment blanks will be collected immediately after the equipment has been decontaminated. The blank will be analyzed for all laboratory analyses requested for the environmental samples collected at the location that the blank is collected. If an analyte is detected in an equipment blank sample, the affected results will be qualified during the data review per EPA's National Functional Guidelines for Inorganic (EPA, 2017a) or Organic (EPA, 2017b) Data Review.

### **2.9.3 Transport Blanks (Trip Blanks)**

A transport blank (also known as a trip blank) consists of a VOC sample vial filled in the laboratory with reagent grade water, transported to the sampling site, handled under the same conditions as an environmental sample, and returned to the laboratory for analysis. Transport blanks are not opened in the field. Transport blanks are prepared only when volatile samples are collected and are analyzed only for volatile analytes. Transport blanks are used to assess the potential introduction of contaminants from sample containers or during the transportation and storage procedures. One transport blank will be submitted for every 20 project samples or one per each shipment of samples to the laboratory, whichever is less. Transport Blank samples will

be analyzed for the volatile constituents to be analyzed in the project sample collected at that location (i.e., BTEX, VOCs, and/or GRO). If an analyte is detected in a transport blank, the data will be qualified during the data review per EPA's National Functional Guidelines for Organic Data Review(EPA, 2017b).

## **2.10 Field Documentation**

All documents generated during the field effort are controlled documents that become part of the project file. Field team members will keep a daily record of significant events, observations, and measurements on the appropriate field forms. All field activities will be recorded on field notes maintained by the Field Coordinator (“FC”) or his designee for each activity. Field forms will be the main source of field documentation for all field activities. The on-site field representative will record on the field forms information pertinent to the investigation program. The sampling documentation will contain information on each sample collected, and will include at a minimum the following information:

- Project name;
- Field personnel on site;
- Facility visitors;
- Weather conditions;
- Field observations;
- Notes on maps and/or drawings;
- Date and time sample collected;
- Sampling method and description of activities;
- Identification or serial numbers of instruments or equipment used;
- Deviations from the Work Plan, SAP, and QAPP; and
- Conferences associated with field sampling activities.

In general, sufficient information will be recorded during sampling so that reconstruction of the event can occur without relying on the memory of the field personnel. Example field forms are provided in Appendix A.

To assist field sampling activities, sample collection checklists may be prepared prior to a sampling event. The checklist will include location designations, types of samples to be collected, QC samples to be collected, and any specific instructions about the field event.

## **2.11 Sampling Procedure Alterations**

Any deviations from the general sampling procedures presented here will be documented and brought to the attention of the PES project manager. The sampling alteration will be document on a Sampling Alteration Checklist (Appendix A).



## **2.12 Sample Labeling, Shipping, and Chain-of-Custody**

All environmental samples collected during the project will be labeled, stored, and shipped using standard PES protocols. These protocols are summarized below.

### **2.12.1 Sample Labeling**

Sample container labels will be completed immediately before or immediately following sample collection. Container labels will include the following information:

- Project name;
- Sample number;
- Initials of collector;
- Date and time of collection; and
- Analysis requested.

### **2.12.2 Sample Transportation**

Soil samples will be transported to the analytical laboratory using the following procedures:

- Sample containers will be transported with ice in a cooler or other suitable shipping container;
- Ice or “blue ice” will be placed into each shipping container with the samples;
- All sample shipments will be accompanied by a COC form. The completed form will be sealed in a plastic bag;
- The name and address of the analytical laboratory will be placed on each shipping container prior to transportation; and
- Coolers sent to out-of-town laboratories will be shipped for overnight delivery.

### **2.12.3 Chain-Of-Custody**

Once a sample is collected, it will remain in the custody of the sampler or other environmental contractor personnel until shipment to the laboratory. Upon transfer of sample possession to subsequent custodians, a COC form will be signed by the persons transferring custody of the sample container. Upon receipt of samples at the laboratory, the condition of the samples will be recorded by the receiver. COC records will be included in the analytical report prepared by the laboratory.

#### **2.12.4 Sample Log-in**

Upon receipt of samples (which will be accompanied by a completed chain-of-custody record detailing requested analyses), the Laboratory Coordinator(s) or his/her delegate will:

- Verify all paperwork, chain-of-custody records, and similar documentation;
- Log-in samples, assign unique laboratory sample numbers, and attach the numbers to the sample container(s);
- Open a project file and enter data into the file;
- Store samples in a refrigerated sample bank; and
- Email a record of the sample receipt and log-in form to the PES Project Manager noting any problems with the samples.

#### **2.13 Decontamination**

Decontamination procedures will be performed consistent with the procedures described in this section. All non-disposable sampling equipment will be decontaminated prior to initial use, between sampling locations, and at the completion of the site-specific sampling.

The following decontamination procedure will be used for non-dedicated and non-disposable sampling equipment:

- Tap water rinse;
- Non-phosphatic detergent (e.g., Liquinox) and tap water wash;
- Tap water rinse; and
- Distilled water rinse.

Water level probes will be decontaminated by rinsing with distilled or de-ionized water. Decontamination of personnel involved in sampling activities will be accomplished as described in the project-specific health and safety plan (Appendix G of the Work Plan).

#### **2.14 Residuals Management**

The following procedures will be used for the drilling and sampling residuals, including soil, well development water, groundwater sampling purge water, and decontamination water:

- Soil generated during drilling will be placed in 55-gallon drums and securely stored on the Property. Upon completion of drilling, a representative sample will be collected and analyzed for disposal characterization. Based on the results, the soil will be profiled and disposed of at an appropriate facility;
- Development water, purge water and decontamination water generated during the investigation activities will be placed in 55-gallon drums and securely stored on the Property. A representative sample collected and analyzed for disposal characterization. Based on the results, the water will be profiled and disposed of at an appropriate facility;

- Disposable clothing and equipment will be placed in plastic bags and disposed of as solid waste; and
- Soil and water samples will be collected from the residual containers and analyzed for the parameters specified by the disposal facility.

## **2.15 Health and Safety**

A project-specific health and safety plan (“HASP”) is provided in Appendix G of the Work Plan. The HASP was prepared consistent with the requirements of the Washington State Division of Occupational Safety and Health Hazardous Waste Operations Regulation (WAC 296-843). The HASP includes a description of the project team, the scope of work, site control, a site hazard information, site hazard control, air monitoring, and emergency response. Information about the nearest hospital, including a map, is also provided.

### 3.0 REFERENCES

- PES Environmental, Inc (PES). 2018. Final Interim Action Work Plan, American Linen Supply CO-Dexter Avenue Site, 700 Dexter Avenue North, Seattle, Washington. Prepared for BMRD-Dexter LLC. August.
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- U.S. Environmental Protection Agency (EPA). 1996. *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*. SW-846, Third Edition, Final Update 3. December.
- U.S. Environmental Protection Agency. 2017a. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. EPA-540-R-2017-001. January.
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- Washington State Department of Ecology (Ecology). 2016. Revised Review Draft Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. February.

**TABLES**

**Table 1**

**R/FS Exploration Locations  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Well Number	Site Location	Approximate Water Bearing Zone	Estimated Well Screen Completion		Soil Samples Collected During Drilling		Soil Sample Analyses		Rationale
			Depth (ft bgs)	Elevation (ft)	Number	Rationale	VOCs	Other	
MW-301	Sidewalk on S side of Valley St between MW102 and MW124	Shallow	20 to 30	33 to 23	6	1/5 ft starting at 5 ft bgs	X	X	Located to provide additional shallow groundwater data between the Property and the parcel to the north of Valley Street
MW-302	Sidewalk (?) on E side of Dexter Ave N near MW-151	A	55 to 65	2 to -8	13	1/5 ft starting at 5 ft bgs	X	X	Located to confirm the extent of CVOCs in the Intermediate A Zone west of the source area beneath the former western boiler room
MW-303	Sidewalk (?) on E side of Dexter Ave N, NW of MW130	B	72 to 82	-15 to -25	0	samples will be collected in adjacent deeper boring	-	-	Located to confirm the extent of CVOCs in the Intermediate B Zone immediately west of the Property
MW-304	Sidewalk (?) on E side of Dexter Ave N, NW of MW130	Deep	105 to 115	-48 to -58	23	1/5 ft starting at 5 ft bgs	X	X	Located to confirm the extent of CVOCs in the Deep Zone immediately west of the Property adjacent to MW-303
MW-305	Sidewalk on W side of Dexter Ave N, S of Roy St	Shallow	25 to 35	30 to 20	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate the extent of shallow CVOCs southwest of the Property
MW-306	Sidewalk on W side of Dexter Ave N, S of Roy St	A	45 to 55	10 to 0	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate the extent of CVOCs in the Intermediate A Zone southwest of the Property
MW-307	Sidewalk on W side of Dexter Ave N, S of Roy St	B	75 to 85	-20 to -30	17	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the extent of CVOCs in the Intermediate B Zone southwest of the Property
MW-308	Alley between 8th Ave N and 9th Ave N, N side of MW122	A	35 to 45	-5 to -15	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate the extent of CVOCs east of the screening level exceedances in MW120
MW-309	Alley between 8th Ave N and 9th Ave N, N side of MW122	B	65 to 75	-35 to -45	15	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the extent of CVOCs in the Intermediate B Zone northeast of the Property adjacent to MW-308
MW-310	Alley between 8th Ave N and 9th Ave N near MW108	Shallow	15 to 25	18 to 8	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate the extent of shallow CVOCs east of the NE corner of the Property
MW-311	Alley between 8th Ave N and 9th Ave N near MW108	B	63 to 73	-30 to -40	15	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the extent of CVOCs in the Intermediate B Zone east of the NE corner of the Property and 30 feet below the elevation monitored by adjacent well MW108
MW-312	Alley between 8th Ave N and 9th Ave N near MW103	Shallow	15 to 25	21 to 11	5	1/5 ft starting at 5 ft bgs	X	X	Located to investigate shallow CVOCs east of the Property (in the alley) and adjacent to deeper monitoring wells
MW-313	Alley between 8th Ave N and 9th Ave N near MW110	Shallow	20 to 30	20 to 10	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate shallow CVOCs east of the southeast corner of the Property and adjacent to deeper monitoring wells
MW-314	Alley between 8th Ave N and 9th Ave N near MW110	B	70 to 80	-30 to -40	16	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the extent of CVOCs in the Intermediate B Zone east of the SE corner of the Property and 25 feet below the elevation monitored by adjacent well MW110
MW-315	Mercer St ROW, S of the Property	A	40 to 50	13 to 3	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate the CVOC concentrations in the Intermediate A Zone south of the Property (south of former well MW114), screened at an elevation similar to BB-8
MW-316	Mercer St ROW, S of the Property	B	60 to 70	-15 to -25	14	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the extent of CVOCs exceeding the SL S of the Property (S of MW-147); well to be screened at an elevation similar to MW-147
MW-317	9th Ave N, north of MW116	A	35 to 45	-3 to -13	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate the extent of CVOCs exceeding the SL NE of MW108, with the well screened at an elevation similar to MW108 and MW116
MW-318	9th Ave N, north of MW116	B	55 to 65	-23 to -33	0	samples will be collected in adjacent deeper boring	-	-	Located to confirm the CVOC concentrations in the Intermediate B Zone between near MW116, screened at an elevation between MW-317 and MW-319
MW-319	9th Ave N, north of MW116	Deep	70 to 80	-38 to -48	16	1/5 ft starting at 5 ft bgs	X	X	Located to confirm the CVOC concentrations in the Deep Zone near MW116, screened at an elevation similar to MW113, MW123, and FMW-129
MW-320	9th Ave N, next to MW113	Shallow	15 to 25	18 to 8	0	samples will be collected in adjacent deeper boring	-	-	Located to confirm the CVOC concentrations in the Shallow Zone between MW115 and MW116
MW-321	9th Ave N, next to MW113	A	40 to 50	-7 to -17	0	samples will be collected in adjacent deeper boring	-	-	Located to confirm the CVOC concentrations in the Intermediate A Zone between MW115 and MW116, screened at a similar elevation as MW108 and MW116
MW-322	9th Ave N, next to MW113	B	55 to 65	-22 to -32	0	samples will be collected in adjacent deeper boring	-	-	Located to confirm the CVOC concentrations in the Intermediate B Zone between MW115 and MW116, screened at an elevation between MW113 and MW-221
MW-323	9th Ave N, adjacent to MW113	Deep	100 to 110	-67 to -77	22	1/5 ft starting at 5 ft bgs	X	X	Located to confirm the CVOC concentrations in the Deep Zone beneath MW113, screened similar to MW103

**Table 1**

**R/FS Exploration Locations  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Well Number	Site Location	Approximate Water Bearing Zone	Estimated Well Screen Completion		Soil Samples Collected During Drilling		Soil Sample Analyses		Rationale										
			Depth (ft bgs)	Elevation (ft)	Number	Rationale	VOCs	Other											
MW-324	9th Ave N, adjacent to MW115	Deep	70 to 80	-36 to -46	16	1/5 ft starting at 5 ft bgs	X	X	Located to confirm the CVOC concentrations in the Deep Zone near MW115, screened at an elevation similar to MW113, MW123, and FMW-129										
MW-325	Mercer St ROW, west of 9th Ave N	A	40 to 50	3 to -7	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate the CVOC concentrations in the Intermediate A Zone south of MW119, screened at an elevation similar to MW119										
MW-326	Mercer St ROW, west of 9th Ave N, adjacent to MW169	Deep	90 to 100	-47 to -57	20	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the CVOC concentrations in the Deep Zone south of MW119, screened at an elevation similar to FMW-129										
MW-327	E of Westlake Ave N near the S extent of Lake Union	A	30 to 40	-3 to -13	0	samples will be collected in adjacent deeper boring	-	-	Located to investigate the NE extent of CVOCs in the Intermediate A Zone near Lake Union, screened at an elevation similar to MW116										
MW-328	E of Westlake Ave N near the S extent of Lake Union	Deep	65 to 75	-38 to -48	15	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the NE extent of CVOCs in the Deep Zone near Lake Union, screened at an elevation similar to MW113 and MW123										
MW-329	SE corner of Valley St and Westlake Ave N, near MW128	Deep	100 to 110	-71 to -81	22	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the CVOC concentrations at the base of the Deep Zone near MW128, screened 40 feet below the elevation monitored by MW128										
MW-330	N of the NE corner of Mercer St and Westlake Ave N	Deep	80 to 90	-51 to -61	18	1/5 ft starting at 5 ft bgs	X	X	Located to investigate the CVOC concentrations in the Deep Zone near the eastern extent of the plume, screened approximately 16 to 30 feet below the elevations of GEI-2 and FMW-131										
<p><u>Notes:</u></p> <table border="0"> <tr> <td>1. ft bgs = feet below ground surface, depths approximate for planned explorations</td> <td>7. Property = former American Linen Supply property</td> </tr> <tr> <td>2. Elevation = feet relative to the North American Vertical Datum of 1988 (NAVD 88)</td> <td>8. X = parameters analyzed</td> </tr> <tr> <td>3. VOCs = volatile organic compounds</td> <td>9. - = not applicable or not analyzed</td> </tr> <tr> <td>4. CVOCs = chlorinated VOCs</td> <td></td> </tr> <tr> <td>5. Other = physical and transport parameters (e.g., grain size, vertical K, bulk density, and/or foc).</td> <td></td> </tr> </table>										1. ft bgs = feet below ground surface, depths approximate for planned explorations	7. Property = former American Linen Supply property	2. Elevation = feet relative to the North American Vertical Datum of 1988 (NAVD 88)	8. X = parameters analyzed	3. VOCs = volatile organic compounds	9. - = not applicable or not analyzed	4. CVOCs = chlorinated VOCs		5. Other = physical and transport parameters (e.g., grain size, vertical K, bulk density, and/or foc).	
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Table 2

**RI/FS Groundwater and Soil Vapor Monitoring Network  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Monitoring Well Number	Site Location	Screen Completion		Continuous Water Level Monitoring	Analytical Parameters			Rationale
		Depth (ft bgs)	Elevation (ft)		VOCs	GRO	MNA	
<b>Existing Shallow Monitoring Wells</b>								
FMW-143	9th Ave N ROW	23-28	10 to 5	–	X		X	Monitor groundwater east of the Property
MW-8	800 Aloha St Parcel	4.5-19	28.7 to 14.2	–	X			Monitor groundwater northeast of the Property
MW-9	8th Ave N ROW	7-22	33.8 to 18.8	–	X	X	X	Monitor groundwater northeast of the Property
MW121	8th Ave N ROW	15-25	26.7 to 16.7	–	X	X	X	Monitor groundwater east of the Property
MW125	Valley Street ROW	15-30	28.6 to 13.6	–	X	X	X	Monitor groundwater north of the Property
MW-154	Roy Street ROW	25-35	28.1 to 18.1	–	X	X	X	Monitor groundwater east of the Property
MW-155	Roy Street ROW	20-30	24.4 to 14.4	X	X	X	X	Monitor groundwater south of the Property
MW-159	8th Ave N ROW	20.4-30.4	22.9 to 12.9	–	X	X	X	Monitor groundwater south of the Property
MW-214	Valley Street ROW	7-17	20.8 to 10.8	–	X			Monitor groundwater east of the Property
R-MW5	Dexter Ave N ROW	15-30	42.0 to 27.0	–	X	X	X	Monitor groundwater west of the Property
R-MW6	8th Ave N ROW	12-22	33.3 to 23.3	–	X	X	X	Monitor CVOCs immediately east of the Property
SCL-MW101	Alley Between 8th & 9th Ave	5-15	25.5 to 15.5	–	X			Monitor groundwater northeast of the Property
SCL-MW105	Alley Between 8th & 9th Ave	20-30	11.3 to 1.3	–	X			Monitor groundwater northeast of the Property
SCS-2	Seattle City Light Parking Lot	11-21	28.2 to 18.2	–	X			Monitor groundwater northeast of the Property
SMW-3	Valley Street ROW	10-20	17.1 to 7.1	–	X			Monitor shallow groundwater near Lake Union
<b>Proposed Shallow Monitoring Wells</b>								
MW-301	Valley Street ROW near MW102	20-30	33 to 23	–	X	X	X	Investigate CVOCs on north side of the Property
MW-305	Dexter Ave N ROW, S of Roy St	20-30	30 to 20	–	X	X	X	Investigate extent of CVOCs SW of Property
MW-310	Alley near MW108	15-25	18 to 8	–	X		X	Investigate CVOCs northeast of the Property
MW-312	Alley near MW103	15-25	21 to 11	–	X		X	Investigate CVOCs east of the Property
MW-313	Alley near MW110	20-30	20 to 10	–	X		X	Investigate CVOCs east of the Property
MW-320	9th Ave N, near MW113	15-25	18 to 8	X	X		X	Investigate CVOCs between MW115/MW116
<b>Existing Intermediate A Monitoring Wells</b>								
BB-8	Roy Street ROW	30-40	13.7 to 3.7	–	X	X	X	Monitor groundwater east of the Property
FMW-142	9th Ave N ROW	38-43	-5 to -10	–	X		X	Monitor groundwater east of the Property
GEI-1	630 Westlake Ave N	26.8-36.8	1.2 to -8.8	–	X		X	Monitor groundwater east of the Property
MW107	8th Ave N ROW	35-45	8.8 to -1.2	–	X	X	X	Monitor groundwater east of the Property
MW108	Alley Between 8th & 9th Ave	40-50	-7.2 to -17.2	–	X		X	Monitor groundwater northeast of the Property
MW109	Alley Between 8th & 9th Ave	35-45	-0.0 to -10.0	X	X		X	Monitor groundwater east of the Property
MW110	Alley Between 8th & 9th Ave	35-45	4.7 to -5.3	–	X		X	Monitor groundwater east of the Property
MW115	9th Ave N ROW	35-45	-0.6 to -10.6	–	X		X	Monitor groundwater east of the Property



Table 2

**RI/FS Groundwater and Soil Vapor Monitoring Network  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Monitoring Well Number	Site Location	Screen Completion		Continuous Water Level Monitoring	Analytical Parameters			Rationale
		Depth (ft bgs)	Elevation (ft)		VOCs	GRO	MNA	
MW116	9th Ave N ROW	35-45	-3.0 to -13.0	-	X		X	Monitor groundwater east of the Property
MW119	9th Ave N ROW S of Roy St	35-45	2.7 to -7.3	-	X		X	Monitor groundwater SE of the Property
MW120	8th Ave N ROW	40-50	-0.0 to -10.0	-	X	X	X	Monitor groundwater NE of the Property
MW-127	8th Ave N ROW	40-50	-1.0 to -11.0	-	X	X	X	Monitor groundwater NE of the Property
MW-142	8th Ave N ROW	40-50	2.4 to -7.6	-	X	X	X	Monitor groundwater east of the Property
MW-144	8th Ave N ROW	39.8-49.8	3.9 to -6.1	-	X	X	X	Monitor groundwater east of the Property
MW-146	Roy Street ROW	40-50	12.9 to 2.9	-	X	X	X	Monitor groundwater south of the Property
MW-156	8th Ave N ROW	39.6-49.6	2.0 to -8.0	-	X	X	X	Monitor groundwater east of the Property
<b>Proposed Intermediate A Monitoring Wells</b>								
MW-189	Valley Street ROW, next to MW102	48-58	1 to -9	-	X	X	X	Interim action well to monitor north side of Property
MW-302	Dexter Ave N ROW, W of MW-151	55-65	2 to -8	-	X	X	X	Investigate CVOCs on west side of the Property
MW-306	Dexter Ave N ROW, S of Roy St	45-55	10 to 0	X	X	X	X	Investigate extent of CVOCs SW of the Property
MW-308	Alley north of MW122	35-45	-5 to -15	X	X		X	Investigate extent of CVOCs NE of the Property
MW-315	Mercer St ROW, S of the Property	40-50	13 to 3	-	X		X	Investigate extent of CVOCs S of the Property
MW-317	9th Ave N, north of MW116	35-45	-3 to -13	-	X		X	Investigate NE extent of CVOCs
MW-321	9th Ave N, adjacent to MW113	40-50	-7 to -17	-	X		X	Not installed yet pending results of FMW-142
MW-325	Mercer St ROW, W of 9th Ave N	40-50	3 to -7	X	X		X	Investigate CVOCs between MW118/MW119
MW-327	E of Westlake Ave N near lake	30-40	-3 to -13	X	X		X	Investigate CVOCs in groundwater near lake
<b>Existing Intermediate B Monitoring Wells</b>								
FMW-141	Alley Between 8th & 9th Ave	48-58	-12 to -22	-	X		X	Monitor groundwater east of the Property
MW111	Alley Between 8th & 9th Ave	70-80	-33.5 to -43.5	-	X		X	Monitor groundwater east of the Property
MW112	Dexter Ave N ROW	75-85	-17.3 to -27.3	-	X	X	X	Monitor groundwater west of the Property
MW126	Alley Between 8th & 9th Ave	85-95	-54.1 to -64.1	X	X		X	Monitor groundwater NE of the Property
MW-143	8th Ave N ROW east of Property	70-80	-27.7 to -37.6	X	X	X	X	Monitor groundwater east of the Property
MW-145	8th Ave N ROW east of Property	70-80	-26.1 to -36.1	-	X	X	X	Monitor groundwater east of the Property
MW-147	Roy Street ROW south of Property	70-80	-17.6 to -27.6	-	X	X	X	Monitor groundwater south of the Property
MW-148	Roy Street ROW SE of Property	70-80	-25.7 to -35.7	-	X	X	X	Monitor groundwater south of the Property
MW-157	8th Ave N ROW east of Property	70-80	-28.3 to -38.3	-	X	X	X	Monitor groundwater east of the Property
W-MW-01	8th Ave N ROW east of Property	70-80	-25.2 to -35.2	-	X	X	X	Monitor groundwater east of the Property
W-MW-02	8th Ave N ROW east of Property	70-80	-26.5 to -36.5	-	X	X	X	Monitor groundwater east of the Property
<b>Proposed Intermediate B Monitoring Wells</b>								
MW-190	Valley Street ROW, next to MW102	78-88	-29 to -39	-	X	X	X	Interim action well to monitor north side of Property

Table 2

**RI/FS Groundwater and Soil Vapor Monitoring Network  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Monitoring Well Number	Site Location	Screen Completion		Continuous Water Level Monitoring	Analytical Parameters			Rationale
		Depth (ft bgs)	Elevation (ft)		VOCs	GRO	MNA	
MW-303	Dexter Ave N ROW, NW of MW130	72-82	-15 to -25	-	X	X	X	Investigate CVOCs on west side of the Property
MW-307	Dexter Ave N ROW, S of Roy St	75-85	-20 to -30	X	X	X	X	Investigate extent of CVOCs SW of the Property
MW-309	Alley north of MW122	65-75	-35 to -45	-	X		X	Investigate extent of CVOCs NE of the Property
MW-311	Alley near MW108	63-73	-30 to -40	-	X		X	Investigate CVOCs northeast of the Property
MW-314	Alley near MW110	70-80	-30 to -40	-	X		X	Investigate CVOCs east of the Property
MW-316	Mercer St ROW, S of the Property	60-70	-15 to -25	X	X		X	Investigate extent of CVOCs S of the Property
MW-318	9th Ave N, north of MW116	55-65	-23 to -33	-	X		X	Investigate NE extent of CVOCs
MW-322	9th Ave N, adjacent to MW113	55-65	-22 to -32	X	X		X	Investigate CVOCs between MW115/MW116
<b>Existing Deep Monitoring Wells</b>								
FMW-129	SDOT property S of Roy St	84-89	-45.6 to -50.6	-	X		X	Monitor groundwater southeast of the Property
FMW-131	630 Westlake Ave N	63-73	-34.6 to -44.6	-	X		X	Monitor groundwater southeast of the Property
FMW-137	Mercer St N of 520 Westlake Ave N	70-80	-42 to -52	-	X		X	Monitor groundwater north of 520 Westlake Ave N
FMW-140	900 Roy Street	70-80	-35.5 to -46.5	-	X		X	Monitor groundwater east of the Property
GEI-2	630 Westlake Ave N	50.5-60.5	-21.1 to -31.1	-	X		X	Monitor groundwater southeast of the Property
MW102	Valley Street ROW	115-125	-65.8 to -75.8	-	X	X	X	Monitor groundwater north of the Property
MW103	Alley Between 8th & 9th Ave	103.5-113.5	-67.6 to -77.6	-	X		X	Monitor groundwater east of the Property
MW104	8th Ave N ROW	119-129	-76.3 to -86.3	-	X	X	X	Monitor groundwater east of the Property
MW105	Roy Street ROW	130-140	-85.3 to -95.3	-	X	X	X	Monitor groundwater southeast of the Property
MW106	West of Roy St	130-140	-78.0 to -88.0	-	X	X	X	Monitor groundwater south of the Property
MW113	9th Ave N ROW	70-80	-36.8 to -46.8	-	X		X	Monitor groundwater east of the Property
MW122	Alley Between 8th & 9th Ave	105-119	-75.0 to -85.0	-	X		X	Monitor groundwater northeast of the Property
MW123	Westlake Ave N ROW	70-80	-42.5 to -52.5	-	X		X	Monitor groundwater northeast of the Property
MW124	Valley Street ROW	110-120	-53.8 to -63.8	X	X	X	X	Monitor groundwater north of the Property
MW128	Westlake Ave N ROW	60-70	-30.8 to -40.8	-	X		X	Monitor groundwater east of the Property
MW-138	Dexter Ave N ROW	105-115	-47.5 to -57.5	-	X	X	X	Monitor groundwater west of the Property
MW-153	Roy St ROW W of MW106	120-130	-65.3 to -75.3	X	X	X	X	Monitor groundwater south of the Property
MW-158A	8th Ave N, near MW-9	90-100	-47.2 to -58.5	-	X	X	X	Monitor groundwater northeast of the Property
MW-160	8th Ave N, N of MW104	118-128	-76.5 to -86.5	X	X	X	X	Monitor groundwater east of the Property
MW-161	8th Ave N, S of MW107	120-130	-78.9 to -88.9	-	X	X	X	Monitor groundwater east of the Property
<b>Proposed Deep Monitoring Wells</b>								
MW-304	Dexter Ave N ROW, NW of MW130	105-115	-48 to -58	-	X	X	X	Investigate CVOCs on west side of the Property
MW-319	9th Ave N, north of MW116	70-80	-38 to -48	X	X		X	Investigate NE extent of CVOCs

**Table 2**

**RI/FS Groundwater and Soil Vapor Monitoring Network  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Monitoring Well Number	Site Location	Screen Completion		Continuous Water Level Monitoring	Analytical Parameters			Rationale
		Depth (ft bgs)	Elevation (ft)		VOCs	GRO	MNA	
MW-323	9th Ave N, adjacent to MW113	100-110	-67 to -77	-	X		X	Investigate CVOCs beneath MW113
MW-324	9th Ave N, adjacent to MW115	70-80	-36 to -46	X	X		X	Investigate CVOCs in groundwater near MW115
MW-326	Mercer St ROW, W of 9th Ave N	90-100	-47 to -57	X	X		X	Investigate CVOCs in groundwater S of MW119
MW-328	E of Westlake Ave N near lake	65-75	-38 to -48	X	X		X	Investigate CVOCs in groundwater near lake
MW-329	Westlake Ave N ROW, near MW128	100-110	-71 to -81	-	X		X	Investigate CVOCs at base of deep GW zone
MW-330	Westlake Ave N ROW	80-90	-51 to -61	-	X		X	Investigate CVOCs in deep GW zone
<b>Soil Vapor Probes</b>								
SV01	8th Ave N, near MW121	11.75-12.25	30.8 to 30.3	-	X			Monitor CVOCs in soil vapor east of the Property
SV02	8th Ave N, near MW-159	11.25-11.75	32.0 to 31.5	-	X			Monitor CVOCs in soil vapor east of the Property
SV03	8th Ave N, south of MW-145	12.25-12.75	31.7 to 32.2	-	X			Monitor CVOCs in soil vapor east of the Property
<b>Notes:</b>								
1. ft bgs = feet below ground surface, depths approximate for planned explorations			3. GRO = gasoline range organics			6. - = not conducted or not analyzed		
2. VOCs = volatile organic compounds			4. MNA = monitored natural attenuation parameters			7. X = parameters analyzed or well to be instrumented (instrumentation list preliminary and subject to change)		
			5. Property = former American Linen Supply property					

Table 3

**Sample Containers, Preservatives, and Holding Times**  
**Former American Linen Supply**  
**700 Dexter Avenue North, Seattle, Washington**

Analysis	Method <sup>a</sup>	Container <sup>b</sup>		Preservative	Maximum Holding Time
		Type	Size		
<b>Soil Samples</b>					
VOCs	8260C	Glass	8 oz./4 x 40 mL	4 ± 2°C, methanol; NaHSO <sub>4</sub>	14 days
foc and TOC	Walkley-Black Method	Glass	8 oz.	4 ± 2°C	28 days
<b>Groundwater Samples</b>					
VOCs	8260C	Glass	3 x 40 mL	4 ± 2°C, HCl to pH < 2	14 days
Gasoline Range Organics	Ecology NWTPH-Gx	Glass	3 x 40 mL	4 ± 2°C, HCl to pH < 2	14 days
Alkalinity	2320 B-2011	Poly	1 liter	4 ± 2°C	28 days
Chloride, Sulfate	9056A	Poly	250 mL	4 ± 2°C	28 days
Nitrate	9056A	Poly	250 mL	4 ± 2°C	48 hours
TOC	9060A	Amber Glass	250 mL	4 ± 2°C, H <sub>2</sub> SO <sub>4</sub> to pH < 2	28 days
Total Iron and Manganese	6020A	Poly	500 mL	4 ± 2°C, HNO <sub>3</sub> to pH < 2	6 months
Methane, Ethane, Ethene	RSK175	Glass	3 x 40 mL	4 ± 2°C, HCl to pH < 2	14 days
<b>Vapor Samples</b>					
VOCs	EPA TO-15/TO-15SIM	SUMMA	1 liter	–	30 days
<b>Groundwater Field Parameters</b>					
pH	Probe/150.1	–	–	–	–
Specific conductance	Probe/120.1	–	–	–	–
Temperature	Probe/170.1	–	–	–	–
Dissolved oxygen (DO)	Probe/SM 4500	–	–	–	–
Oxidation/reduction potential (ORP)	Probe	–	–	–	–
Ferrous Iron	Hach Kit IR-18C	–	–	–	–
<b>Notes:</b>					
<sup>a</sup> EPA methods unless noted otherwise					
<sup>b</sup> The size and number of containers may be modified by the analytical laboratories. Samples for multiple analyses may be obtained from the same container					

Table 4

PES Environmental, Inc.

**Analytical Parameters and Reporting Limits – Soil**  
**Former American Linen Supply**  
**700 Dexter Avenue North, Seattle, Washington**

Analyte	CAS Registry Number	Pace Analytical		
		Lab Method	MDL (mg/kg)	RDL <sup>a</sup> (mg/kg)
Volatile Organic Compounds (VOCs)				
1,1,1,2-Tetrachloroethane	630-20-6	8260C	0.000264	0.001
1,1,1-Trichloroethane	71-55-6	8260C	0.000286	0.001
1,1,2,2-Tetrachloroethane	79-34-5	8260C	0.000365	0.001
1,1,2-Trichloroethane	79-00-5	8260C	0.000277	0.001
CFC-113	76-13-1	8260C	0.000365	0.001
1,1-Dichloroethane	75-34-3	8260C	0.000199	0.001
1,1-Dichloroethene	75-35-4	8260C	0.000303	0.001
1,1-Dichloropropene	563-58-6	8260C	0.000317	0.001
1,2,3-Trichlorobenzene	87-61-6	8260C	0.000306	0.001
1,2,3-Trichloropropane	96-18-4	8260C	0.000741	0.0025
Benzene, 1,2,3-Trimethyl-	526-73-8	8260C	0.000287	0.001
1,2,4-Trichlorobenzene	120-82-1	8260C	0.000388	0.001
1,2,4-Trimethylbenzene	95-63-6	8260C	0.000211	0.001
1,2-Dibromo-3-Chloropropane	96-12-8	8260C	0.00105	0.005
Ethylene dibromide	106-93-4	8260C	0.000343	0.001
1,2-Dichlorobenzene	95-50-1	8260C	0.000305	0.001
1,2-Dichloroethane	107-06-2	8260C	0.000265	0.001
1,2-Dichloropropane	78-87-5	8260C	0.000358	0.001
1,3,5-Trimethylbenzene	108-67-8	8260C	0.000266	0.001
1,3-Dichlorobenzene	541-73-1	8260C	0.000239	0.001
1,3-Dichloropropane	142-28-9	8260C	0.000207	0.001
1,4-Dichlorobenzene	106-46-7	8260C	0.000226	0.001
2,2-Dichloropropane	594-20-7	8260C	0.000279	0.001
Methyl ethyl ketone	78-93-3	8260C	0.00468	0.01
2-Chlorotoluene	95-49-8	8260C	0.000301	0.001
2-Hexanone	591-78-6	8260C	NA	NA
4-Chlorotoluene	106-43-4	8260C	0.00024	0.001
Methyl isobutyl ketone	108-10-1	8260C	0.00188	0.01
Acetone	67-64-1	8260C	0.01	0.05
Acrylonitrile	107-13-1	8260C	0.00179	0.01
Benzene	71-43-2	8260C	0.00027	0.001
Bromobenzene	108-86-1	8260C	0.000284	0.001
Bromochloromethane	74-97-5	8260C	NA	NA
Dichlorobromomethane	75-27-4	8260C	0.000254	0.001
Bromoform	75-25-2	8260C	0.000424	0.001
Bromomethane	74-83-9	8260C	0.00134	0.005
Carbon Disulfide	75-15-0	8260C	NA	NA
Carbon Tetrachloride	56-23-5	8260C	0.000328	0.001
Chlorobenzene	108-90-7	8260C	0.000212	0.001
Chlorodibromomethane	124-48-1	8260C	0.000373	0.001
Chloroethane	75-00-3	8260C	0.000946	0.005
Chloroform	67-66-3	8260C	0.000229	0.005
Chloromethane	74-87-3	8260C	0.000375	0.0025
Cis-1,2-Dichloroethene	156-59-2	8260C	0.000235	0.001
Cis-1,3-Dichloropropene	10061-01-5	8260C	0.000262	0.001
Isopropyl ether	108-20-3	8260C	0.000248	0.001

Table 4

**Analytical Parameters and Reporting Limits – Soil**  
**Former American Linen Supply**  
**700 Dexter Avenue North, Seattle, Washington**

Analyte	CAS Registry Number	Pace Analytical		
		Lab Method	MDL (mg/kg)	RDL <sup>a</sup> (mg/kg)
Dibromomethane	74-95-3	8260C	0.000382	0.001
CFC-12	75-71-8	8260C	0.000713	0.005
Ethylbenzene	100-41-4	8260C	0.000297	0.001
Hexachlorobutadiene	87-68-3	8260C	0.000342	0.001
Methyl Iodide	74-88-4	8260C	NA	NA
Cumene (isopropylbenzene)	98-82-8	8260C	0.000243	0.001
Methyl t-butyl ether	1634-04-4	8260C	0.000212	0.001
Methylene Chloride	75-09-2	8260C	0.001	0.005
n-Butylbenzene	104-51-8	8260C	0.000258	0.001
Hexane	110-54-3	8260C	NA	NA
n-Propylbenzene	103-65-1	8260C	0.000206	0.001
Naphthalene	91-20-3	8260C	0.001	0.005
p-Isopropyltoluene	99-87-6	8260C	0.000204	0.001
Sec-Butylbenzene	135-98-8	8260C	0.000201	0.001
Styrene	100-42-5	8260C	0.000234	0.001
Tert-Butylbenzene	98-06-6	8260C	0.000206	0.001
Tetrachloroethene	127-18-4	8260C	0.000276	0.001
Toluene	108-88-3	8260C	0.000434	0.005
Trans-1,2-Dichloroethene	156-60-5	8260C	0.000264	0.001
Trans-1,3-Dichloropropene	10061-02-6	8260C	0.000267	0.001
Trans-1,4-Dichloro-2-butene	110-57-6	8260C	NA	NA
Trichloroethene	79-01-6	8260C	0.000279	0.001
CFC-11 (trichlorofluoromethane)	75-69-4	8260C	0.000382	0.005
Vinyl Acetate	108-05-4	8260C	NA	NA
Vinyl Chloride	75-01-4	8260C	0.000291	0.001
Total Xylenes	1330-20-7	8260C	0.000698	0.003
<b>Petroleum Hydrocarbons</b>				
Gasoline Range Organics	NA	NWTPH-Gx	NA	NA
<b>Notes:</b>				
MDL = Method detection limit				
RDL = Reported detection limits, which are provided for guidance and may not always be achievable				
mg/kg = milligrams per kilogram				
NA = not available or not applicable				
<sup>a</sup> The RDL represents the level of the lowest calibration standard (i.e., the laboratory practical quantitation limit [PQL])				

**Table 5**

**Laboratory and Field Quality Control Sample Summary  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

<b>Matrix</b>	<b>QA/QC Analyses</b>	<b>Frequency</b>
<b>Laboratory</b>		
Water	Laboratory control sample (LCS)	Every analytical batch.
	MS/MSD	1 per 20 project samples with a minimum of 1 per event.
	Method blank	Every analytical batch.
Soil	Laboratory control sample (LCS)	Every analytical batch.
	MS/MSD	1 per 20 project samples with a minimum of 1 per event.
	Method blank	Every analytical batch.
<b>Field</b>		
Water	Equipment blank/field rinsate <sup>a</sup>	1 per 20 project samples when non-dedicated sampling equipment is used, with minimum of 1 per event. Analyze consistent with project samples.
	Transport (Trip) blank	1 per 20 project samples with maximum of 1 per shipment, when samples are analyzed for VOCs or NWTPH-Gx.
	Field duplicate	1 per 20 project samples. Analyze consistent with project samples.
Soil	Equipment blank/field rinsate	1 per 20 project samples when non-dedicated sampling equipment is used, with minimum of 1 per event. Analyze consistent with project samples.
	Transport (Trip) blank	1 per 20 project samples with maximum of 1 per shipment, when samples are analyzed for VOCs or NWTPH-Gx.
	Field duplicate	1 per 20 project samples. Analyze consistent with project samples.

**Field Equipment and Supplies**  
**Former American Linen Supply**  
**700 Dexter Avenue North, Seattle, Washington**

<b>Forms/Documentation</b>
Field logbooks
Field sampling data sheets
Chain-of-custody/laboratory analysis report form
Custody seal
Project photo log
Health and Safety Plan (HASP)
Field sampling and analysis plan (SAP)
Large scale site map
<b>Tools</b>
Fiberglass tape with stainless-steel weight
Tape measure calibrated to 0.1 inch
Decon brushes
Flashlight
Tool kit
Electric cordless drill
Shovel
<b>Well Development Equipment</b>
Down well pump
Generator/Battery
Water Level Indicator
Turbidity Meter
Stainless Steel Bailer and rope
Oil/water interface probe
Hydrocarbon finding paste and measuring tool
<b>Groundwater Sampling Equipment</b>
Multi Meter
Flow-through cell
Peristaltic pump
Silicone tubing
Polyethylene tubing
Water level indicator
Oil/water interface probe
Glass sample collection containers, Teflon® lined caps, and labels.
0.45-µm groundwater filters
Distilled water
Hydrocarbon findingpaste and measuring tool
<b>Soil Sampling Equipment</b>
Photo-ionization Detector
EPA Method 5035 sampling equipment (e.g. Terra Core Samplers)
Stainless-steel mixing bowl
Stainless-steel mixing implements (i.e., spoons, rods, etc.)
Labels
Plastic baggies



**Table 6**

**Field Equipment and Supplies  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

<b>NAPL Monitoring and Recovery</b>
Electronic oil-water interface probe
Hydrocarbon findingpaste and measuring tool
Distilled water
Peristaltic pump
Silicone tubing
Polyethylene tubing
<b>Aquifer Testing (Slug Tests)</b>
Polyethylene rope
Solid slugs
Transducer
Field computer
Electronic oil-water interface probe or Water level indicator
<b>Health and Safety Equipment</b>
Fire extinguisher
First aid kits
Safety glasses
Ear plugs
Respirator and organic vapor cartridges
Gloves – nitrile, vinyl, neoprene
Duct tape
<b>Miscellaneous Equipment</b>
Stainless- steel work surface
Spray paint, pencils, pens, labels
Metal or wooden rod
Waterproof markers
Water jugs and sprayers
Hazardous materials packaging
Bubble wrap and tape for shipping
Camera
Resealable plastic bags
Paper towels
Visqueen sheets
Buckets
Squirt bottle (wash)
Cotton gloves
Nalgene wash bottles
Reagent bottles
Coolers with foam dividers (sample transport and shipping)
Scrub brushes
Plastic tubs
Ice, in leak-proof bags
Drinking water

Table 7

**Analytical Parameters and Reporting Limits – Water**  
**Former American Linen Supply**  
**700 Dexter Avenue North, Seattle, Washington**

Analyte	CAS Registry Number	Pandora Analytical		
		Lab Method	MDL (µg/L)	RDL <sup>a</sup> (µg/L)
Volatile Organic Compounds (VOCs)				
1,1,1,2-Tetrachloroethane	630-20-6	8260C	0.120	0.500
1,1,1-Trichloroethane	71-55-6	8260C	0.0940	0.500
1,1,2,2-Tetrachloroethane	79-34-5	8260C	0.130	0.500
1,1,2-Trichloroethane	79-00-5	8260C	0.186	0.500
CFC-113	76-13-1	8260C	0.164	0.500
1,1-Dichloroethane	75-34-3	8260C	0.114	0.500
1,1-Dichloroethene	75-35-4	8260C	0.188	0.500
1,1-Dichloropropene	563-58-6	8260C	0.128	0.500
1,2,3-Trichlorobenzene	87-61-6	8260C	0.164	0.500
1,2,3-Trichloropropane	96-18-4	8260C	0.247	2.50
Benzene, 1,2,3-Trimethyl-	526-73-8	8260C	0.0739	0.500
1,2,4-Trichlorobenzene	120-82-1	8260C	0.355	0.500
1,2,4-Trimethylbenzene	95-63-6	8260C	0.123	0.500
1,2-Dibromo-3-Chloropropane	96-12-8	8260C	0.325	1.00
Ethylene dibromide	106-93-4	8260C	0.193	0.500
1,2-Dichlorobenzene	95-50-1	8260C	0.101	0.500
1,2-Dichloroethane	107-06-2	8260C	0.108	0.500
1,2-Dichloropropane	78-87-5	8260C	0.190	0.500
1,3,5-Trimethylbenzene	108-67-8	8260C	0.124	0.500
1,3-Dichlorobenzene	541-73-1	8260C	0.130	0.500
1,3-Dichloropropane	142-28-9	8260C	0.147	0.500
1,4-Dichlorobenzene	106-46-7	8260C	0.121	0.500
2,2-Dichloropropane	594-20-7	8260C	0.0929	0.500
Methyl ethyl ketone	78-93-3	8260C	1.28	2.50
2-Chlorotoluene	95-49-8	8260C	0.111	0.500
2-Hexanone	591-78-6	8260C	0.757	2.50
4-Chlorotoluene	106-43-4	8260C	0.0972	0.500
Methyl isobutyl ketone	108-10-1	8260C	0.823	2.50
Acetone	67-64-1	8260C	1.05	25.0
Acrylonitrile	107-13-1	8260C	0.873	2.50
Benzene	71-43-2	8260C	0.0896	0.500
Bromobenzene	108-86-1	8260C	0.133	0.500
Bromochloromethane	74-97-5	8260C	0.145	0.500
Dichlorobromomethane	75-27-4	8260C	0.0800	0.500
Bromoform	75-25-2	8260C	0.186	0.500
Bromomethane	74-83-9	8260C	0.157	0.500
Carbon Disulfide	75-15-0	8260C	0.101	0.500
Carbon Tetrachloride	56-23-5	8260C	0.159	0.500
Chlorobenzene	108-90-7	8260C	0.140	0.500
Chlorodibromomethane	124-48-1	8260C	0.128	0.500
Chloroethane	75-00-3	8260C	0.141	0.500
Chloroform	67-66-3	8260C	0.0860	0.500
Chloromethane	74-87-3	8260C	0.153	0.500
Cis-1,2-Dichloroethene	156-59-2	8260C	0.0933	0.500
Cis-1,3-Dichloropropene	10061-01-5	8260C	0.0976	0.500

**Table 7**

**Analytical Parameters and Reporting Limits – Water  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Analyte	CAS Registry Number	Pandora Analytical		
		Lab Method	MDL (µg/L)	RDL <sup>a</sup> (µg/L)
Isopropyl ether	108-20-3	8260C	0.0924	0.500
Dibromomethane	74-95-3	8260C	0.117	0.500
CFC-12	75-71-8	8260C	0.127	0.500
Ethylbenzene	100-41-4	8260C	0.158	0.500
Hexachlorobutadiene	87-68-3	8260C	0.157	1.00
Methyl Iodide	74-88-4	8260C	0.377	2.50
Cumene	98-82-8	8260C	0.126	0.500
Methyl t-butyl ether	1634-04-4	8260C	0.102	0.500
Methylene Chloride	75-09-2	8260C	1.07	2.50
n-Butylbenzene	104-51-8	8260C	0.143	0.500
Hexane	110-54-3	8260C	0.305	1.00
n-Propylbenzene	103-65-1	8260C	0.162	0.500
Naphthalene	91-20-3	8260C	0.174	0.500
p-Isopropyltoluene	99-87-6	8260C	0.138	0.500
Sec-Butylbenzene	135-98-8	8260C	0.134	0.500
Styrene	100-42-5	8260C	0.117	0.500
Tert-Butylbenzene	98-06-6	8260C	0.183	0.500
Tetrachloroethene	127-18-4	8260C	0.199	0.500
Toluene	108-88-3	8260C	0.412	1.00
Trans-1,2-Dichloroethene	156-60-5	8260C	0.152	0.500
Trans-1,3-Dichloropropene	10061-02-6	8260C	0.222	0.500
Trans-1,4-Dichloro-2-butene	110-57-6	8260C	0.257	5.00
Trichloroethene	79-01-6	8260C	0.153	0.500
CFC-11	75-69-4	8260C	0.130	0.500
Vinyl Acetate	108-05-4	8260C	0.645	2.50
Vinyl Chloride	75-01-4	8260C	0.118	0.500
Total Xylenes	1330-20-7	8260C	0.316	1.50
<b>Petroleum Hydrocarbons</b>				
Gasoline Range Organics	NA	NWTPH-Gx	31.6	100
<b>EVO Injection Monitoring</b>				
Alkalinity, Total	NA	2320B	20,000	2,710
Chloride	16887-00-6	9056A	1,000	51.9
Nitrate	14797-55-8	9056A	100	22.7
Sulfate	14808-79-8	9056A	5,000	77.4
Total Organic Carbon (TOC)	NA	9060A	1,000	102
Iron	7439-89-6	6020A	100	15.0
Manganese	7439-96-5	6020A	5.00	0.250
Ethane	74-84-0	RSK-175	1.29	0.296
Ethene	74-85-1	RSK-175	1.27	0.422
Methane	74-82-8	RSK-175	0.678	0.287
<b>Notes:</b>				
MDL = Method detection limit				
RDL = Reported detection limits, which are provided for guidance and may not always be achievable				
µg/L = micrograms per liter				
NA = not available or not applicable				
<sup>a</sup> The RDL represents the level of the lowest calibration standard (i.e., the laboratory practical quantitation limit [PQL])				

## **ILLUSTRATIONS**

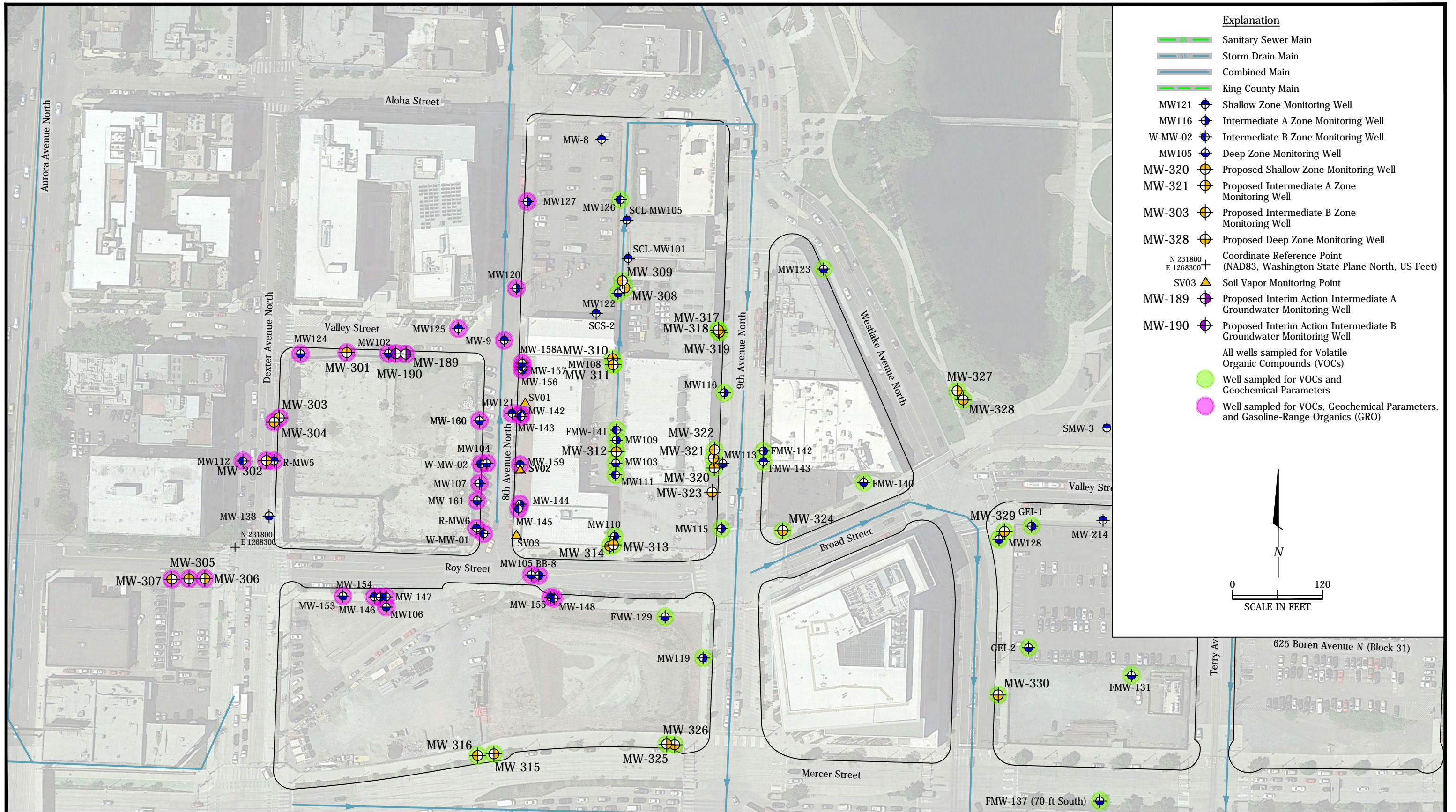


**PES Environmental, Inc.**  
Engineering & Environmental Services

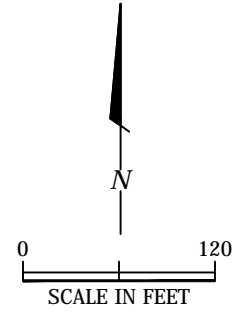
Property Location  
Former American Linen Supply  
700 Dexter Avenue North  
Seattle, Washington

FIGURE  
**1**

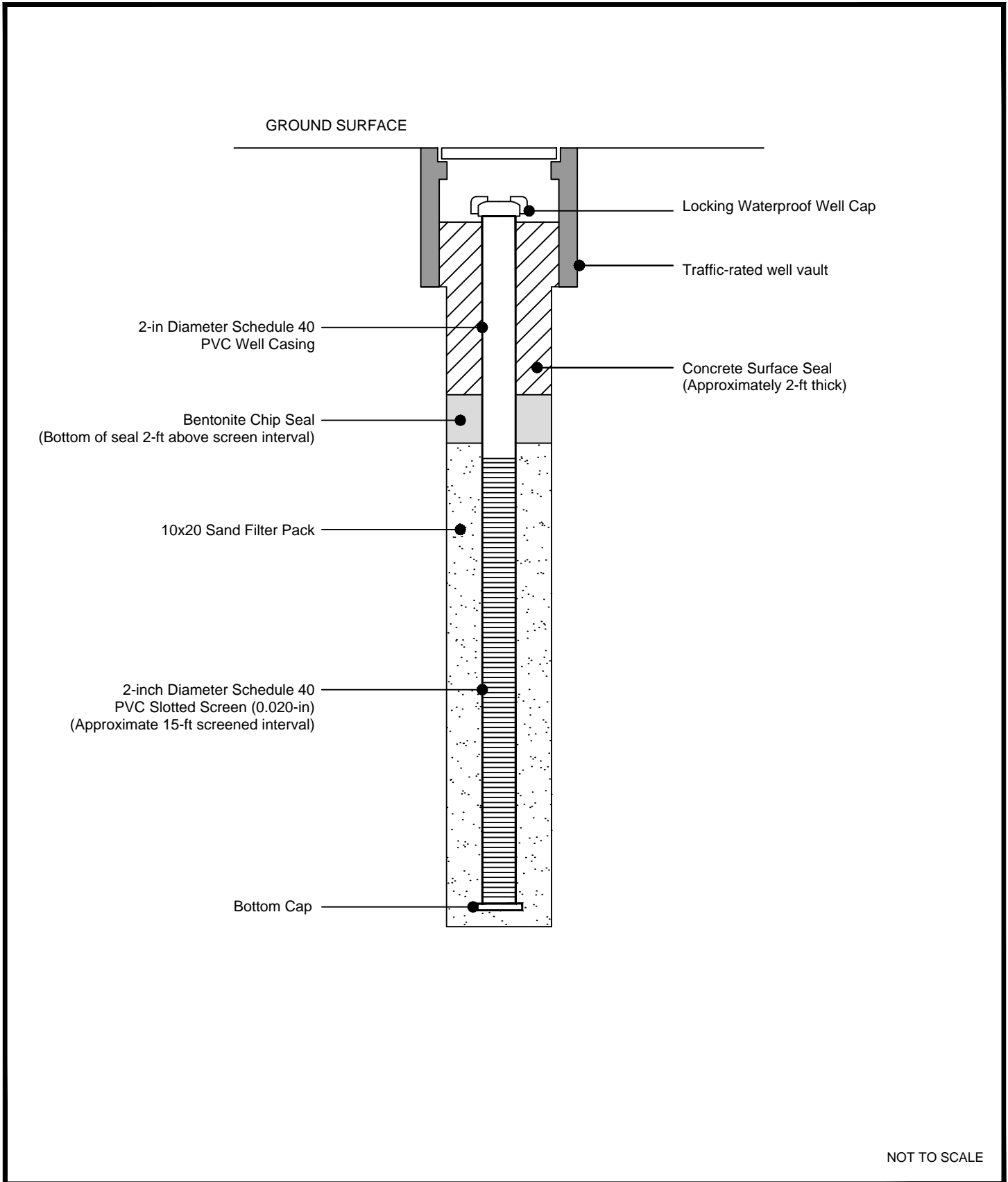




Explanation	
	Sanitary Sewer Main
	Storm Drain Main
	Combined Main
	King County Main
	MW121 Shallow Zone Monitoring Well
	MW116 Intermediate A Zone Monitoring Well
	W-MW-02 Intermediate B Zone Monitoring Well
	MW105 Deep Zone Monitoring Well
	MW-320 Proposed Shallow Zone Monitoring Well
	MW-321 Proposed Intermediate A Zone Monitoring Well
	MW-303 Proposed Intermediate B Zone Monitoring Well
	MW-328 Proposed Deep Zone Monitoring Well
	N 231800 E 1268300 Coordinate Reference Point (NAD83, Washington State Plane North, US Feet)
	SV03 Soil Vapor Monitoring Point
	MW-189 Proposed Interim Action Intermediate A Groundwater Monitoring Well
	MW-190 Proposed Interim Action Intermediate B Groundwater Monitoring Well
	All wells sampled for Volatile Organic Compounds (VOCs)
	Well sampled for VOCs and Geochemical Parameters
	Well sampled for VOCs, Geochemical Parameters, and Gasoline-Range Organics (GRO)







**APPENDIX A**  
**FIELD FORMS**





# PES ENVIRONMENTAL

## DAILY SAFETY MEETING CHECKLIST

Project Name: \_\_\_\_\_ Date: \_\_\_\_\_

Project Number: \_\_\_\_\_ Presented by: \_\_\_\_\_

**Check the Topics/Information Reviewed:**

- |  |  |  |
|--|--|--|
| <input type="checkbox"/> Safety glasses, hard hat, safety boots<br><input type="checkbox"/> Site safety plan review and location<br><input type="checkbox"/> Equipment and machinery familiarization<br><input type="checkbox"/> Employee right-to-know/MSDS location<br><input type="checkbox"/> Open pits, excavations, and site hazards<br><input type="checkbox"/> Vehicle safety and driving/road conditions<br><input type="checkbox"/> Portable tool safety and awareness<br><input type="checkbox"/> Overhead utility locations and clearance<br><input type="checkbox"/> First aid, safety, and PPE location<br><input type="checkbox"/> Sharp object, rebar, and scrap metal hazards<br><input type="checkbox"/> Safety is everyone's responsibility<br><input type="checkbox"/> Latex gloves inner/nitrile gloves outer<br><input type="checkbox"/> Excavation/trenching inspections/documentation<br><input type="checkbox"/> Full-face respirators with proper cartridges<br><input type="checkbox"/> Upgrade to level ___ at: PID(___eV)>___ppm<br><input type="checkbox"/> Work stoppage at: PID(___eV) >___ppm, %LEL>10% | <input type="checkbox"/> Slips, trips, and falls<br><input type="checkbox"/> Directions to hospital<br><input type="checkbox"/> Anticipated visitors<br><input type="checkbox"/> Electrical ground fault<br><input type="checkbox"/> Public safety and fences<br><input type="checkbox"/> Excavator swing and loading<br><input type="checkbox"/> Orderly site and housekeeping<br><input type="checkbox"/> Smoking in designated areas<br><input type="checkbox"/> Leather gloves for protection<br><input type="checkbox"/> Effects of the night before<br><input type="checkbox"/> Vibration related injuries<br><input type="checkbox"/> Fire extinguisher locations<br><input type="checkbox"/> Eye wash station locations<br><input type="checkbox"/> Decontamination procedures | <input type="checkbox"/> Daily work scope<br><input type="checkbox"/> Emergency protocol<br><input type="checkbox"/> Parking and laydown<br><input type="checkbox"/> Hot work permits<br><input type="checkbox"/> Strains and sprains<br><input type="checkbox"/> Noise hazards<br><input type="checkbox"/> No horseplay<br><input type="checkbox"/> Heat and cold stress<br><input type="checkbox"/> Backing up hazards<br><input type="checkbox"/> Accidents are costly<br><input type="checkbox"/> Dust and vapor control<br><input type="checkbox"/> Refueling procedures<br><input type="checkbox"/> Confined space entry<br><input type="checkbox"/> Flying debris hazards |
|--|--|--|

Discussion/Comments/Follow-up Actions: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**NAME**

**SIGNATURE**

**COMPANY**


**Instructions:**

- Conduct a daily safety meeting prior to beginning each day's site activities.
- Complete form, obtain signatures, and file with the Daily Summary.
- Follow up on any noted items and document resolution of any action items.



PES Environmental, Inc.

Date: \_\_\_\_\_ Page: \_\_\_\_\_ of \_\_\_\_\_

Job Number: \_\_\_\_\_

Project: \_\_\_\_\_

Project Manager: \_\_\_\_\_

Logged by: \_\_\_\_\_

**BORING NO:** \_\_\_\_\_

**FIELD LITHOLOGIC LOG**

LOCATION SKETCH SCALE 1' =



Contractor: \_\_\_\_\_

Drilling Equipment: \_\_\_\_\_

Borehole Diameter: \_\_\_\_\_

Total Depth of Boring: \_\_\_\_\_ / Backfill Method: \_\_\_\_\_

Sampling Method: \_\_\_\_\_

Surface Conditions: \_\_\_\_\_

Comments: \_\_\_\_\_

SAMPLE ID (Date/Time)	PID (PPM)	SOIL DRIVE INTERVAL	BLOWS /6INCHES	SAMPLE RECOVERED (Inches)	GW DEPTH	DEPTH (FEET)	GRAPHIC LOG	LITHOLOGIC DESCRIPTION
								COLOR, SOIL TYPE (SYMBOL) Munsell Number, Moisture, Consistency, Grain Size, Estimated Percentages ( % gravel, % sand, % fines), Other (Angularity, Shape, Odor, Structure. Strength, Dilatancy, Toughness, Plasticity, etc. )
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						0		



Page: of  
 Date:  
 Job Number:  
 Project:  
 Logged by:

BORING NO:

FIELD LITHOLOGIC LOG (CONT.)

LITHOLOGIC DESCRIPTION

COLOR, SOIL TYPE (SYMBOL) Munsell Number, Moisture, Consistency, Grain Size, Estimated Percentages ( % gravel, % sand, % fines), Other (Angularity, Shape, Odor, Structure. Strength, Dilatancy, Toughness, Plasticity, etc. )

SAMPLE ID (Date/Time)	PID (PPM)	SOIL DRIVE INTERVAL	BLOWS /6INCHES	SAMPLE RECOVERED (Inches)	GW DEPTH	DEPTH (FEET)	GRAPHIC LOG
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						0	

LOGGED BY: \_\_\_\_\_

EDITED BY: \_\_\_\_\_





# PES GROUNDWATER SAMPLING FORM

<b>Facility:</b>	<b>Well I.D.:</b>
<b>Project No.:</b>	<b>Date:</b>

**Site Description**    Monitoring Well    Extraction Well    Borehole    Spring/Creek    Pond/Lagoon    Outfall    Other:

Air Temp: <input type="checkbox"/> °C <input type="checkbox"/> °F      Weather:
Well Locked? <input type="checkbox"/> yes <input type="checkbox"/> no      Damaged/Repairs Needed:
<input type="checkbox"/> TOC <input type="checkbox"/> MP   Description of MP (e.g., well monument at grade surface):
TOC/MP Stickup: <input type="checkbox"/> ft <input type="checkbox"/> m   above/below ground      Well Inside Diameter (ID): <input type="checkbox"/> 2-inch <input type="checkbox"/> 4-inch   Other:

**Water Level Data**   Measurement Units:    ft    m

<input type="checkbox"/> E-Tape, # _____ <input type="checkbox"/> Steel Tape <input type="checkbox"/> Other	Pre-Purge <sup>1</sup> Initial	Pre-Purge <sup>2</sup> Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	__ : __ : __						
Depth to Water							
Depth to Bottom							
Water Level (WL)							
Product Thickness							
Product Recovery <input type="checkbox"/> gallons <input type="checkbox"/> liters							

<sup>1</sup>First round of water levels; <sup>2</sup>Water level prior to purging

**Field Water Quality Data**   Purge Depth:    Top    Mid    Bottom       Grab    Bailer    Pump   Description:

Casing Volume: [____(TD) - ____ (WL)] • [____(Well ID)] <sup>2</sup> • [____(Conversion Factor)] = _____ <input type="checkbox"/> gal <input type="checkbox"/> liters Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches								Dry While Purging <input type="checkbox"/>
Cumulative Vol. Purged (Liters)	Depth to Water	Time (hh:mm)	pH (Temp. Corrected? <input type="checkbox"/> )	Conductivity <input type="checkbox"/> SC <input type="checkbox"/> EC (µS/cm)	Temp <input type="checkbox"/> °C <input type="checkbox"/> °F	D. O (mg/L)	ORP (mV)	Turbidity <input type="checkbox"/> NTU
Pump Rate (ml/min)			Color/Tint/Odor					
Meter Used								

**Sample Data**   Sample Depth:       Grab    Bailer    Pump   Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	# of Bottles (total to lab)	Metals Filtered	Bottles (type)	Preservative	Notes
	P0				Y   N		Y   N	
					Y   N		Y   N	
					Y   N		Y   N	
Sampler's Name (print)					Signature			







# SAMPLING ALTERATION CHECKLIST

Sample program identification: \_\_\_\_\_

Material to be sampled: \_\_\_\_\_ Sample Date: \_\_\_\_\_

Measurement variable: \_\_\_\_\_

Standard procedure for analysis: \_\_\_\_\_

Reference: \_\_\_\_\_

Variation from standard procedure: \_\_\_\_\_

Reason for variation: \_\_\_\_\_

Resultant change in field sampling procedure: \_\_\_\_\_

Special equipment, material, or personnel required: \_\_\_\_\_

Authorizing name: \_\_\_\_\_ Date: \_\_\_\_\_

Approval: \_\_\_\_\_

Title: \_\_\_\_\_