Appendix A

Site Activities History

SUMMARY OF PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIVITIES

1995 Underground Storage Tank Closure: In August 1995, Nowicki and Associates, Inc. (Nowicki) conducted compliance sampling in the process of underground storage tank (UST) decommissioning activities during a conversion to an aboveground storage tank (AST) system at the Property. One 3,000-gallon new oil UST was removed and one 500-gallon waste oil UST was closed-in-place during the conversion at the Property. Soil samples were collected from the sidewalls and bottom of the new oil UST excavation. Laboratory analytical results indicated concentrations of total petroleum hydrocarbons (TPH) as diesel (TPHd) and TPH as heavy oil (TPHo) above the Washington State Department of Ecology (Ecology) Model Toxics Control Act (MTCA) Method A screening levels in soil samples collected from west sidewall. Nowicki overexcavated observed petroleum hydrocarbon impacted soil. Approximately 65 tons of petroleum-hydrocarbon impacted soil was removed from the new oil UST excavation. Final soil sample locations from the sidewalls and bottom of the new oil UST excavation were below laboratory reporting limits for TPHd and TPHo. No other concentrations were reported. Soil samples were collected from one soil boring, SB, advanced just south of the waste oil UST at depths of 1.33 and 2 feet below ground surface (bgs). Laboratory analytical results indicated concentrations of TPHd and TPHo above MTCA Method A screening levels in samples collected from boring SB. The overlying building foundation made removal of petroleum hydrocarbon impacted soil around the waste oil UST untenable, and the soil was left in place. Additional information is available in Nowicki's *Lynnwood Quaker State Lube UST Closure Site Characterization*, dated September 27, 1995.

1995 Soil Characterization Report: In November 1995, Nowicki conducted an additional Site investigation to characterize subsurface impacts to soil and groundwater at the Site. Two soil borings, SB1 and SB2, were advanced to the north of the former waste oil UST. Laboratory analytical results indicated concentrations of TPH as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) above the MTCA Method A screening levels. More information is available in Nowicki's *Waste Oil UST – Characterization Soil Boring*, dated November 20, 1995.

2003 Phase I Environmental Site Assessment: In January 2003, FINEnvironmental, Inc. (FINE) conducted a Phase I Site assessment. Results of the inspection indicated that the subject property formerly operated as a Texaco-branded gasoline service station prior to 1977. Results also identified Leaking UST (LUST) sites at adjacent properties to the north and east. More information is available in FINE's *Phase I Environmental Site Assessment Limited Compliance Audit*, dated January 28, 2003.

2004 Phase I Environmental Assessment: In December 2003, GeoEngineers, Inc. (GeoEngineers) completed a Phase I Site assessment prior to Shell's purchase of the Jiffy Lube facility operating on the Property. Results of the inspection indicated similar findings of the Phase I conducted by FINE in 2003. More information is available in GeoEngineers' *Limited Phase I Environmental Site Assessment*, dated February 11, 2004.

November 2006 Site Investigation: In November 2006, Cambria Environmental Technology (Cambria) installed five monitoring wells (MW-1 through MW-5) and advanced one soil boring (SB-1) at the Property. Soil samples were collected from each boring and submitted for laboratory analysis. Analytical results indicated benzene concentrations above MTCA Method A screening levels in soil samples collected from each of the soil borings at depths ranging from 7.5 to 27.5 feet bgs. TPHg, toluene, ethylbenzene, and total xylenes were detected above MTCA Method A screening levels in soil samples collected from borings MW-3, MW-4, and MW-5. More information is available in Conestoga-Rovers & Associates' (CRA) *Site Investigation Report*, dated May 31, 2007.

July 2007 Site Investigation: In July 2007, CRA conducted an additional Site investigation, including the installation of five monitoring wells (MW-6 through MW-10). Laboratory analytical results from soil samples collected from four out of five well borings indicated concentrations of benzene above the MTCA Method A screening level. TPHg and total xylenes concentrations were additionally detected above the MTCA Method A screening levels in soil samples collected from boring MW-8 at 15 and 20 feet bgs. More information is available in CRA's *Site Investigation Report*, dated October 23, 2007.

May 2010 Site Investigation: In May 2010, CRA oversaw the advancement of two soil borings, SB-3 and SB-4, on the adjacent property to the west. The borings were advanced to 20 and 20.5 feet bgs, respectively. Select soil samples were submitted for laboratory analysis. The soil samples were documented below MTCA Method A cleanup levels. Grab groundwater samples were collected from these borings from temporary monitoring wells. Laboratory analytical results were below MTCA Method A cleanup levels with exception to TPHd in both SB-3 and SB-4 and benzene in SB-3.

August 2014 Site Investigation: In August 2014, CRA oversaw the advancement of three soil borings, SB-5, SB-6, and SB-7. The borings were advanced to 9 feet bgs (SB-5) and 5.5 feet bgs (SB-6 and SB-7) via air knife assisted vacuum and hand auger techniques. Select soil samples were submitted for laboratory analysis. Petroleum

hydrocarbon concentrations were below MTCA Method A cleanup levels in each sample submitted for analysis.

Appendix B

Boring Logs

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 6808 Lynnwood
PROJECT NUMBER: 241739
CLIENT: Shell Oil Products US
LOCATION: 6820 196th St. SW, Lynnwood, WA

HOLE DESIGNATION: SB-3
DATE COMPLETED: May 11, 2010
DRILLING METHOD: Hollow-stem Auger
FIELD PERSONNEL: H. Bays
NOTES: Air-knifed to 5.3ft BGS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
0	Asphalt at surface.	0.50
2	**SW - SAND with gravel:** little fines, loose, medium sand, tan-brown, damp, no odor.	
4	- Increasing cobbles, gray-olive. at 4.5ft BGS	
6		
8		
10	- Dense, olive-gray, moist at 10.0ft BGS	
12		
14	- Increasing fines, wet at 14.5ft BGS	
16		
18		
20	**SM - Silty SAND with gravel:** dense, fine sand, gray, dry, no odor.	19.50
	END OF HOLE @ 20.0ft BGS	20.00

Soil Boring: Concrete; Hydrated bentonite chips

TEMPORARY WELL DETAILS
Borehole Diameter: 12"
Screened interval:
5.00 to 20.00ft BGS
Length: 15ft
Material: PVC
Seal:
0.00 to 3.00ft BGS
Material: Bentonite chips
Sand Pack:
3.00 to 20.00ft BGS
Material: Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID
				0.2
SB-3-5.0				0.3
		0.4	50	0.6
		0.5	50	0.6
		0.3	50	0.4

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ 5/11/2010 STATIC WATER LEVEL ▼ 5/11/2010
CHEMICAL ANALYSIS ( )

OVERBURDEN LOG - TEMPORARY WELL 241739-BORING LOGS.GPJ CRA_CORP.GDT 8/6/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 6808 Lynnwood
PROJECT NUMBER: 241739
CLIENT: Shell Oil Products US
LOCATION: 6820 196th St. SW, Lynnwood, WA

HOLE DESIGNATION: SB-4
DATE COMPLETED: May 11, 2010
DRILLING METHOD: Hollow-stem Auger
FIELD PERSONNEL: H. Bays
NOTES: Air-knifed to 5.0ft BGS

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	Soil Boring	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID
0	**SW - SAND with gravel and cobbles:** little fines, medium sand, dense, damp, reddish light brown, no odor.		Concrete					
2								0.3
4	- Increase in fines, more olive-gray brown than red at 4.0ft BGS			SB-4-5.0				0.2
6								
8	**SM - Silty SAND with gravel:** dense, medium to fine sand, olive-gray, moist, no odor.	7.50						
10			Hydrated bentonite chips			0.5	50	0.6
12								
14	- Some cobbles, dry at 14.5ft BGS					0.3	50	0.3
16								
18	- Increasing cobbles at 17.5ft BGS							
20	- Fine sand, dry at 19.5ft BGS					0.4	50	0.1
	END OF HOLE @ 20.5ft BGS	20.50						
22			TEMPORARY WELL DETAILS Borehole Diameter: 12" Screened interval: 5.00 to 20.00ft BGS Length: 15ft Material: PVC Seal: 0.00 to 3.00ft BGS Material: Bentonite chips Sand Pack: 3.00 to 20.50ft BGS Material: Sand					
24								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ 5/11/2010 STATIC WATER LEVEL ▼ 5/11/2010
CHEMICAL ANALYSIS ( )

OVERBURDEN LOG - TEMPORARY WELL 241739-BORING LOGS.GPJ CRA_CORP.GDT 8/6/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 6808 LYNN
PROJECT NUMBER: 241739
CLIENT: SHELL OIL PRODUCTS US
LOCATION: 6808 196TH ST SW, LYNWOOD, WA

HOLE DESIGNATION: SB-5
DATE COMPLETED: August 6, 2014
DRILLING METHOD: AIR KNIFE
FIELD PERSONNEL: J. SONG

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE BLOW COUNTS	SAMPLE PID (ppm)
0	ASPHALT	0.67	CONCRETE					
2	SM-SILTY SAND, with gravel, medium dense, fine to medium garined, brown, dry, no odor			SB-5-2				0.0
4		5.00	BENTONITE CHIPS	SB-5-5				1.7
6	SM-SILTY SAND, with organics (roots, etc.), medium dense, fine to medium grained, dark brown, dry, no odor							
8		8.50		SB-5-8.5				2.2
10	SM-SILTY SAND, with gravel, medium dense, fine to medium garined, olive brown, dry, no odor - cobble at 9.0ft BGS - REFUSAL at 9.0ft BGS	9.00						
12	END OF BOREHOLE @ 9.0ft BGS							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 241739-WI.GPJ CRA_CORP.GDT 8/21/14

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 6808 LYNN
PROJECT NUMBER: 241739
CLIENT: SHELL OIL PRODUCTS US
LOCATION: 6808 196TH ST SW, LYNWOOD, WA

HOLE DESIGNATION: SB-6
DATE COMPLETED: August 6, 2014
DRILLING METHOD: AIR KNIFE
FIELD PERSONNEL: J. SONG

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE BLOW COUNTS	SAMPLE PID (ppm)
0	ASPHALT	0.67	CONCRETE					
2	SM-SILTY SAND, with gravel, medium dense, fine to medium grained, brown, dry, no odor			SB-6-2				0.0
4			BENTONITE CHIPS					
5		5.00		SB-6-5				2.2
6	SM-SILTY SAND, with organics (roots, etc), trace gravel, medium dense, fine to medium grained, dark brown, damp, no hydrocarbon odor	5.50						
8	END OF BOREHOLE @ 5.5ft BGS							
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 241739-WI.GPJ CRA_CORP.GDT 8/21/14

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 6808 LYNN
PROJECT NUMBER: 241739
CLIENT: SHELL OIL PRODUCTS US
LOCATION: 6808 196TH ST SW, LYNWOOD, WA

HOLE DESIGNATION: SB-7
DATE COMPLETED: August 6, 2014
DRILLING METHOD: AIR KNIFE
FIELD PERSONNEL: J. SONG

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE BLOW COUNTS	SAMPLE PID (ppm)
0	ASPHALT	0.33	CONCRETE					
2	SM-SILTY SAND, with gravel, medium dense, fine to medium grained, brown, dry, no odor			SB-7-2				0.0
4			BENTONITE CHIPS					
5		5.00		SB-7-5				659.9
6	SM-SILTY SAND, with organics (roots, etc), medium dense, fine to medium grained, dark brown, dry, hydrocarbon odor	5.50						
8	END OF BOREHOLE @ 5.5ft BGS							
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 241739-WI.GPJ CRA_CORP.GDT 8/21/14

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 210
Everett, WA 98208
Telephone: 425.353.6670
Fax: 425.353.6443

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-1
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	16-Nov-06
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	16-Nov-06
PROJECT NUMBER	248-1739	**WELL DEVELOPMENT DATE (YIELD)**	28-Dec-06 (12/29/2006)
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	452 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	452.00 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	17.5 to 27.5 ft bgs
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
					SW		Asphalt Gravelly SAND with trace cobbles (FILL): Dark Brown; dry, non plastic, high permeability.	0.5	Portland Type I/II
				5	SW		Gravelly SAND with trace cobbles: Gray, moist, high permeability.	5.0	Bentonite Seal
0	11 20 23				SC		Sandy CLAY with cobbles: Gray, moist, low plsticity, medium permeability.	7.5	
				10					10/20 Filter Sand
0	9 13 24				SM		Silty SAND with cobbles: Gray, moist, high permeability.	12.5	
				15					
2.9	8 38 53	MW1@1 7.5'			SM		Silty SAND with cobbles: Gray, moist, high permeability.	17.5	
				20					
0	32 50 50				SM		Slity SAND with cobbles: Gray, moist, high to medium permeability.	22.5	2" diameter schedule 40 PVC .010 slot size
				25					
0	6 23 50	MW1@2 7.5'			SM		Slity SAND with cobbles: Gray, moist, high to medium permeability.	27.5	
				30					
								32.5	Bottom of Boring @ 32 ft

WELL LOG EVERETT C:\DOCUMENTS AND SETTINGS\VANDERPAARDT\DESKTOP\9-3299 SB-1_MW-1 - MW-5.GPJ DEFAULT.GDT 3/13/07

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 210
Everett, WA 98208
Telephone: 425.353.6670
Fax: 425.353.6443

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-2
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	16-Nov-06
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	17-Nov-06
PROJECT NUMBER	248-1739	**WELL DEVELOPMENT DATE (YIELD)**	28-Dec-06 (12/29/2006)
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	451.04 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	451.04 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	7.5 to 17.5 ft bgs
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Asphalt	0.5	Portland Type I/II
					SW		Gravelly SAND with trace cobbles (FILL): Dark Brown; dry, non plastic, high permeability.		Bentonite Seal
				5				5.0	
					SW		Gravelly SAND with trace cobbles: Gray, moist, high permeability.		10/20 Filter Sand
								7.5	
0.6	11 17 21				SC		Clayey SAND with trace gravel: Gray, wet, low placitiy, low permeability.		
				10				12.5	
0.7	7 21 35	MW2@1 2.5'			CL		Sandy CLAY: Gray, wet, medium plasticity, low permeability.		2" diameter schedule 40 PVC .010 slot size
				15				17.5	
2.4	27 50 50	MW2@1 7.5'							Bottom of Boring @ 18 ft

WELL LOG EVERETT C:\DOCUMENTS AND SETTINGS\VANDERPAARDT\DESKTOP\9-3299 SB-1_MW-1 - MW-5.GPJ DEFAULT.GDT 3/13/07

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 210
Everett, WA 98208
Telephone: 425.353.6670
Fax: 425.353.6443

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-3
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	16-Nov-06
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	16-Nov-06
PROJECT NUMBER	248-1739	**WELL DEVELOPMENT DATE (YIELD)**	28-Dec-06 (12/29/2006)
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	452.01 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	452.01 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	7.5 to 17.5 ft bgs
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
					SW		Asphalt Gravelly SAND with trace cobbles (FILL): Dark Brown; dry, non plastic, high permeability.	0.5	Portland Type I/II
				5	SC		Clayey SAND with cobbles: Gray, wet, low plasticity, low permeability.	5.0	Bentonite Seal
2228	3 8 11	MW3@7.5'			ML		Sandy CLAY with gravel: Gray, wet, medium plasticity, low permeability.	7.5	10/20 Filter Sand
189	6 26 50			10 15	CL		Sandy Clay with gravel: Gray, wet, low plasticity, low permeability.	12.5	2" diameter schedule 40 PVC .010 slot size
38	14 31 50	MW3@17.5'						17.5	Bottom of Boring @ 18 ft

WELL LOG EVERETT C:\DOCUMENTS AND SETTINGS\VANDERPAARDT\DESKTOP\9-3299 SB-1_MW-1 - MW-5.GPJ DEFAULT.GDT 3/13/07

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 210
Everett, WA 98208
Telephone: 425.353.6670
Fax: 425.353.6443

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-4
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	16-Nov-06
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	16-Nov-06
PROJECT NUMBER	248-1739	**WELL DEVELOPMENT DATE (YIELD)**	28-Dec-06 (12/29/2006)
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	452.28 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	452.28 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	7.5 to 17.5 ft bgs
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							Asphalt	0.5	Portland Type I/II
					SW		Gravelly SAND with trace cobbles (FILL): Dark Brown; dry, non plastic, high permeability.		Bentonite Seal
				5	SW		Gravelly Sand: Gray; dry, high permeability.	5.0	10/20 Filter Sand
2390	7 21 23	MW4@7.5'		10	CL		Clayey SAND: Gray, wet, medium permeability.	7.5	
149	7 13 14			15	CL		Silty sandy CLAY: Gray, low plasticity, medium permeability.	12.5	2" diameter schedule 40 PVC .010 slot size
63	19 50	MW4@17.5'						17.5	Bottom of Boring @ 18 ft

WELL LOG EVERETT C:\DOCUMENTS AND SETTINGS\AVANDERPAARDT\DESKTOP\9-3299 SB-1_MW-1 - MW-5.GPJ DEFAULT.GDT 3/13/07

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 210
Everett, WA 98208
Telephone: 425.353.6670
Fax: 425.353.6443

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-5
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	16-Nov-06
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	17-Nov-06
PROJECT NUMBER	248-1739	**WELL DEVELOPMENT DATE (YIELD)**	28-Dec-06 (12/29/2006)
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	451.85 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	451.58 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	7.5 to 17.5 ft bgs
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
					SW		Asphalt Gravelly SAND with trace cobbles (FILL): Dark Brown; dry, non plastic, high permeability.	0.5	Portland Type I/II
				5	SC		Clayey SAND with gravel: Gray, dry, medium permeability.	5.0	Bentonite Seal
2956	11 17 14	MW5@7.5'		10	CL		Sandy CLAY: Gray, wet, low plasticity, medium permeability.	7.5	10/20 Filter Sand
499	11 14 9			15	CL		Sandy CLAY: Gray, wet, low plasticity, low permeability.	12.5	2" diameter schedule 40 PVC .010 slot size
72.5	17 32 50	MW5@17.5'						17.5	Bottom of Boring @ 18 ft

WELL LOG EVERETT C:\DOCUMENTS AND SETTINGS\AVANDERPAARDT\DESKTOP\9-3299 SB-1_MW-1 - MW-5.GPJ DEFAULT.GDT 3/13/07

Cambria Environmental Technology, Inc.
8620 Holly Drive, Suite 210
Everett, WA 98208
Telephone: 425.353.6670
Fax: 425.353.6443

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	SB-1
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	16-Nov-06
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	17-Nov-06
PROJECT NUMBER	248-1739	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	Not Surveyed
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	Not Surveyed
BORING DIAMETER	8"	**SCREENED INTERVAL**	NA
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	NA
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
0					SW		Asphalt Gravelly SAND with trace cobbles (FILL): Dark Brown; dry, non plastic, high permeability.	0.5	Portland Type I/II
				5	SW		Gravelly SAND with trace cobbles: Gray; dry, high permeability.	5.0	
7.7	3 8 9				SC		Clayey SAND with trace cobbles: Gray; wet, low plasticity, low permeability.	7.5	Bentonite Seal
24.2	3 4 9	SB1@1 2.5'		10 15	SW		Gravelly SAND: Gray; moist, low permeability.	12.5	
7	11 24 50	SB1@1 7.5'						17.5	Bottom of Boring @ 18 ft

WELL LOG EVERETT C:\DOCUMENTS AND SETTINGS\AVANDERPAARDT\DESKTOP\9-3299 SB-1_MW-1 - MW-5.GPJ DEFAULT.GDT 3/13/07

Conestoga-Rovers & Associates
526 Commerce Center - Building B
1420 80th Street SW, Suite A
Everett, WA 98203
Telephone: (425) 212-5100
Fax: (425) 212-5199

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-6
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	05-Jul-07
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	05-Jul-07
PROJECT NUMBER	241739	**WELL DEVELOPMENT DATE (YIELD)**	05-Jul-07
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	449.87 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	452.00 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	10 to 20 fbg
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	15.0 fbg (06-Jul-07)
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SW		Asphalt Fill SAND with trace gravel: Dark Brown; moist, non plastic, high permeability.	0.5	Portland Type I/II
440				5	SC		Sandy CLAY: Gray, wet, low plasticity, low permeability.	5.0	Bentonite Seal
301	15 21 27			10	GC		Gravelly CLAY with trace cobbles: Gray, wet, low plasticity, low permeability.	10.0	10/20 Filter Sand
670	51 20 30	MW6@15'		15	SP		▽ Gravelly SAND with trace cobbles: Gray, wet, non plastic, high permeability.	15.0	2" diameter schedule 40 PVC .010 slot size
1821	50 for 6	MW6@20'		20				20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) EVERETT I:\ROCKLIN.APPS\GINT7\PROJECTS\PALMER.GPJ DEFAULT.GDT 8/28/07

Conestoga-Rovers & Associates
526 Commerce Center - Building B
1420 80th Street SW, Suite A
Everett, WA 98203
Telephone: (425) 212-5100
Fax: (425) 212-5199

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-7
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	05-Jul-07
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	05-Jul-07
PROJECT NUMBER	241739	**WELL DEVELOPMENT DATE (YIELD)**	05-Jul-07
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	450.48 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	451.04 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	10 to 20 fbg
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	14.0 fbg (07-Jul-07) ▽
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Portland Type I/II
					SW		Fill SAND with trace gravel: Dark Brown; moist, non plastic, high permeability.		Bentonite Seal
966		MW7@5'		5	SC		Clayey SAND with trace gravel: Gray, moist, non plastic, medium permeability.	5.0	10/20 Filter Sand
120	9 12 10			10	SP		Gravelly SAND: Gray, moist, non plastic, low permeability. ▽	10.0	
60	17 18 20			15	SP		Gravelly SAND wth trace cobbles: Gray, wet, non plastic, high permeability.	15.0	2" diameter schedule 40 PVC .010 slot size
290	26 50	MW7@20'		20				20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) EVERETT I:\ROCKLIN.APPS\GINT\PROJECTS\PALMER.GPJ DEFAULT.GDT 8/28/07

Conestoga-Rovers & Associates
526 Commerce Center - Building B
1420 80th Street SW, Suite A
Everett, WA 98203
Telephone: (425) 212-5100
Fax: (425) 212-5199

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-8
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	05-Jul-07
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	06-Jul-07
PROJECT NUMBER	241739	**WELL DEVELOPMENT DATE (YIELD)**	06-Jul-07
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	451.7 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	452.01 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	10 to 20 fbg
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	15.0 fbg (08-Jul-07)
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Portland Type I/II
					SW		SAND with trace cobbles (FILL): Dark Brown; moist, non plastic, high permeability.		Bentonite Seal
2000+				5				5.0	
					SC		Clayey SAND with gravel: Gray, moist, non plastic, medium permeability.		10/20 Filter Sand
	13 19 20			10				10.0	
3413					CL		Sandy CLAY with gravel: Gray, wet, low plasticity, low permeability.		
	19 20 20			15			▽	15.0	2" diameter schedule 40 PVC .010 slot size
4450		MW8@15'			CL		Sandy Clay with gravel: Gray, wet, medium plasticity, low permeability.		
	30 50			20				20.0	
960		MW8@20'							Bottom of Boring @ 20 fbg

WELL LOG (PID) EVERETT I:\ROCKLIN.APPS\GINT7\PROJECTS\PALMER.GPJ DEFAULT.GDT 8/28/07

Conestoga-Rovers & Associates
526 Commerce Center - Building B
1420 80th Street SW, Suite A
Everett, WA 98203
Telephone: (425) 212-5100
Fax: (425) 212-5199

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-9
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	05-Jul-07
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	06-Jul-07
PROJECT NUMBER	241739	**WELL DEVELOPMENT DATE (YIELD)**	06-Jul-07
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	452.18 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	452.28 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	10 to 20 fbg
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	16.0 fbg (09-Jul-07) ▽
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Portland Type I/II
					SW		Fill SAND with trace gravel: Dark Brown; dry, non plastic, high permeability.		Bentonite Seal
				5				5.0	
201					SW		Fill SAND with trace gravel: Dark Brown; moist, non plastic, high permeability.		10/20 Filter Sand
				10				10.0	
2000+	50	MW9@10'			CL		Sandy CLAY with trace gravel: Gray, moist, low plasticity, medium permeability.		
				15				15.0	2" diameter schedule 40 PVC .010 slot size
1250	50				SC		Clayey SAND with gravel: Gray, wet, non plastic, medium permeability. ▽		
				20				20.0	
300+	50	MW9@20'							Bottom of Boring @ 20 fbg

WELL LOG (PID) EVERETT I:\ROCKLIN\APPS\GINT7\PROJECTS\PALMER.GPJ DEFAULT.GDT 8/28/07

Conestoga-Rovers & Associates
526 Commerce Center - Building B
1420 80th Street SW, Suite A
Everett, WA 98203
Telephone: (425) 212-5100
Fax: (425) 212-5199

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	**BORING/WELL NAME**	MW-10
JOB/SITE NAME	LYNN6808	**DRILLING STARTED**	05-Jul-07
LOCATION	6808 196th Street, Lynnwood, WA	**DRILLING COMPLETED**	06-Jul-07
PROJECT NUMBER	241739	**WELL DEVELOPMENT DATE (YIELD)**	06-Jul-07
DRILLER	Boart Longyear Drilling	**GROUND SURFACE ELEVATION**	451.72 ft above msl
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	451.58 ft above msl
BORING DIAMETER	8"	**SCREENED INTERVAL**	10 to 20 fbg
LOGGED BY	Bryan Palmer	**DEPTH TO WATER (First Encountered)**	17.0 fbg (10-Jul-07) ▽
REVIEWED BY	T. Crotwell	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	Portland Type I/II
				5	SW		Gravelly SAND with trace cobbles (FILL): Dark Brown; moist, non plastic, high permeability.		Bentonite Seal
900	25 5 5	MW10@ 5'			CL		Gravelly SAND with trace cobbles: Gray with Dark Brown streaks; wet, non plastic, high to medium permeability.	5.0	10/20 Filter Sand
63	39 50			10	CL		Sandy CLAY with trace gravel: Gray, wet, low plasticity, low permeability.	10.0	
480	27 50			15	CL		Clayey SAND with trace gravel: Gray, wet, non plastic, medium permeability. ▽	15.0	2" diameter schedule 40 PVC .010 slot size
360	37 50	MW10@ 20'		20				20.0	Bottom of Boring @ 20 fbg

WELL LOG (PID) EVERETT I:\ROCKLIN\APPS\GINT\PROJECTS\PALMER.GPJ DEFAULT.GDT 8/28/07

Appendix C

Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-58907-1
TestAmerica Sample Delivery Group: SAP#171152 / 241739
Client Project/Site: 6808 196th St. SW, Lynnwood
Revision: 1

For:
Conestoga-Rovers & Associates, Inc.
20818 44th Ave W
Suite 190
Lynnwood, Washington 98036

Attn: Christina McClelland

Roxanne L Connor

Authorized for release by:
8/26/2014 4:59:08 PM

Roxanne Connor, Senior Project Manager
(615)301-5761
roxanne.connor@testamericainc.com

Table of Contents

Sample Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood

TestAmerica Job ID: 490-58907-1
SDG: SAP#171152 / 241739

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-58907-1	SO-241739-080614-JS-SB-5-2	Solid	08/06/14 09:10	08/07/14 08:15
490-58907-2	SO-241739-080614-JS-SB-5-5	Solid	08/06/14 09:25	08/07/14 08:15
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Solid	08/06/14 10:00	08/07/14 08:15
490-58907-4	SO-241739-080614-JS-SB-6-2	Solid	08/06/14 10:30	08/07/14 08:15
490-58907-5	SO-241739-080614-JS-SB-6-5	Solid	08/06/14 10:40	08/07/14 08:15
490-58907-6	SO-241739-080614-JS-SB-7-2	Solid	08/06/14 12:25	08/07/14 08:15
490-58907-7	SO-241739-080614-JS-SB-7-5	Solid	08/06/14 12:40	08/07/14 08:15
490-58907-8	Trip Blank	Solid	08/06/14 00:01	08/07/14 08:15

Job ID: 490-58907-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-58907-1

Comments
No additional comments.

Receipt
The samples were received on 8/7/2014 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 490-58907-2

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-58907-2

Comments
No additional comments.

Receipt
The samples were received on 8/7/2014 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.0° C.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: SO-241739-080614-JS-SB-5-5 (490-58907-2), SO-241739-080614-JS-SB-5-8.5 (490-58907-3), SO-241739-080614-JS-SB-7-2 (490-58907-6).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern for analyte C10-C24 that most closely resembles a Gasoline product used by the laboratory for quantitative purposes: SO-241739-080614-JS-SB-7-5 (490-58907-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample ID: SO-241739-080614-JS-SB-5-2

Lab Sample ID: 490-58907-1

Date Collected: 08/06/14 09:10
Matrix: Solid
Date Received: 08/07/14 08:15
Percent Solids: 81.0

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		3.98		mg/Kg	☼	08/17/14 11:10	08/21/14 11:18	1
C24-C40	ND		3.98		mg/Kg	☼	08/17/14 11:10	08/21/14 11:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*127*		*50 - 150*	*08/17/14 11:10*	*08/21/14 11:18*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	81		0.10		%			08/08/14 14:31	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood

TestAmerica Job ID: 490-58907-1
SDG: SAP#171152 / 241739

Client Sample ID: SO-241739-080614-JS-SB-5-5
Lab Sample ID: 490-58907-2
Date Collected: 08/06/14 09:25
Matrix: Solid
Date Received: 08/07/14 08:15
Percent Solids: 66.1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	103		7.95		mg/Kg	☼	08/17/14 11:10	08/21/14 15:07	2
C24-C40	81.4		7.95		mg/Kg	☼	08/17/14 11:10	08/21/14 15:07	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*125*		*50 - 150*	*08/17/14 11:10*	*08/21/14 15:07*	*2*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	66		0.10		%			08/08/14 14:31	1

Client Sample ID: SO-241739-080614-JS-SB-5-8.5
Lab Sample ID: 490-58907-3

Date Collected: 08/06/14 10:00
Matrix: Solid

Date Received: 08/07/14 08:15
Percent Solids: 90.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00181		mg/Kg	☼	08/08/14 06:55	08/08/14 15:28	1
1,2-Dibromoethane (EDB)	ND		0.00181		mg/Kg	☼	08/08/14 06:55	08/08/14 15:28	1
1,2-Dichloroethane	ND		0.00181		mg/Kg	☼	08/08/14 06:55	08/08/14 15:28	1
Ethylbenzene	ND		0.00181		mg/Kg	☼	08/08/14 06:55	08/08/14 15:28	1
Methyl tert-butyl ether	ND		0.00181		mg/Kg	☼	08/08/14 06:55	08/08/14 15:28	1
Toluene	ND		0.00181		mg/Kg	☼	08/08/14 06:55	08/08/14 15:28	1
Xylenes, Total	ND		0.00271		mg/Kg	☼	08/08/14 06:55	08/08/14 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*08/08/14 06:55*	*08/08/14 15:28*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*	*08/08/14 06:55*	*08/08/14 15:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*	*08/08/14 06:55*	*08/08/14 15:28*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*08/08/14 06:55*	*08/08/14 15:28*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
Benzo[a]pyrene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
Benzo[b]fluoranthene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
Benzo[k]fluoranthene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
Chrysene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
Dibenz(a,h)anthracene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
Indeno[1,2,3-cd]pyrene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
1-Methylnaphthalene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
2-Methylnaphthalene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1
Naphthalene	ND		0.00356		mg/Kg	☼	08/09/14 11:53	08/11/14 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*67*		*29 - 120*	*08/09/14 11:53*	*08/11/14 17:17*	*1*
Nitrobenzene-d5	*67*		*27 - 120*	*08/09/14 11:53*	*08/11/14 17:17*	*1*
Terphenyl-d14	*70*		*13 - 120*	*08/09/14 11:53*	*08/11/14 17:17*	*1*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		9.60		mg/Kg	☼	08/08/14 06:54	08/14/14 08:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*88*		*50 - 150*	*08/08/14 06:54*	*08/14/14 08:24*	*1*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	4.53		3.94		mg/Kg	☼	08/17/14 11:10	08/21/14 15:22	1
C24-C40	28.8		3.94		mg/Kg	☼	08/17/14 11:10	08/21/14 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*108*		*50 - 150*	*08/17/14 11:10*	*08/21/14 15:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	91		0.10		%			08/08/14 14:31	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood

TestAmerica Job ID: 490-58907-1
SDG: SAP#171152 / 241739

Client Sample ID: SO-241739-080614-JS-SB-6-2 — **Lab Sample ID: 490-58907-4**

Date Collected: 08/06/14 10:30 — **Matrix: Solid**

Date Received: 08/07/14 08:15 — **Percent Solids: 91.8**

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		3.96		mg/Kg	☼	08/17/14 11:10	08/21/14 11:47	1
C24-C40	ND		3.96		mg/Kg	☼	08/17/14 11:10	08/21/14 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*105*		*50 - 150*	*08/17/14 11:10*	*08/21/14 11:47*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			08/08/14 14:31	1

Client Sample ID: SO-241739-080614-JS-SB-6-5

Lab Sample ID: 490-58907-5

Date Collected: 08/06/14 10:40
Matrix: Solid
Date Received: 08/07/14 08:15
Percent Solids: 60.6

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		3.93		mg/Kg	☼	08/17/14 11:22	08/21/14 12:01	1
C24-C40	ND		3.93		mg/Kg	☼	08/17/14 11:22	08/21/14 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*91*		*50 - 150*	*08/17/14 11:22*	*08/21/14 12:01*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	61		0.10		%			08/08/14 14:31	1

Client Sample ID: SO-241739-080614-JS-SB-7-2 — **Lab Sample ID: 490-58907-6**

Date Collected: 08/06/14 12:25 — **Matrix: Solid**

Date Received: 08/07/14 08:15 — **Percent Solids: 92.7**

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	4.56		3.99		mg/Kg	☼	08/17/14 11:22	08/21/14 15:36	1
C24-C40	14.5		3.99		mg/Kg	☼	08/17/14 11:22	08/21/14 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*84*		*50 - 150*	*08/17/14 11:22*	*08/21/14 15:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	93		0.10		%			08/08/14 14:31	1

Client Sample ID: SO-241739-080614-JS-SB-7-5

Lab Sample ID: 490-58907-7

Date Collected: 08/06/14 12:40
Matrix: Solid
Date Received: 08/07/14 08:15
Percent Solids: 62.5

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	15.5		3.96		mg/Kg	☼	08/17/14 11:22	08/21/14 15:51	1
C24-C40	29.5		3.96		mg/Kg	☼	08/17/14 11:22	08/21/14 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*106*		*50 - 150*	*08/17/14 11:22*	*08/21/14 15:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	63		0.10		%			08/08/14 14:31	1

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood

TestAmerica Job ID: 490-58907-1
SDG: SAP#171152 / 241739

Client Sample ID: Trip Blank
Lab Sample ID: 490-58907-8
Date Collected: 08/06/14 00:01
Matrix: Solid
Date Received: 08/07/14 08:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg		08/08/14 06:55	08/08/14 15:00	1
Ethylbenzene	ND		0.00200		mg/Kg		08/08/14 06:55	08/08/14 15:00	1
Toluene	ND		0.00200		mg/Kg		08/08/14 06:55	08/08/14 15:00	1
Xylenes, Total	ND		0.00300		mg/Kg		08/08/14 06:55	08/08/14 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*08/08/14 06:55*	*08/08/14 15:00*	*1*
Dibromofluoromethane (Surr)	*108*		*70 - 130*	*08/08/14 06:55*	*08/08/14 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*	*08/08/14 06:55*	*08/08/14 15:00*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*	*08/08/14 06:55*	*08/08/14 15:00*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 490-58898-D-3-A MS
Matrix: Solid
Analysis Batch: 182355

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 182309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		0.0422	0.04384		mg/Kg		104	31 - 143
Ethylbenzene	ND		0.0422	0.04166		mg/Kg		99	23 - 161
Toluene	ND		0.0422	0.04241		mg/Kg		100	30 - 155
Xylenes, Total	ND		0.0845	0.08210		mg/Kg		97	25 - 162

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: 490-58898-D-3-B MSD
Matrix: Solid
Analysis Batch: 182355

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 182309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		0.0480	0.04541		mg/Kg		95	31 - 143	4	50
Ethylbenzene	ND		0.0480	0.04187		mg/Kg		87	23 - 161	0	50
Toluene	ND		0.0480	0.04330		mg/Kg		90	30 - 155	2	50
Xylenes, Total	ND		0.0960	0.08291		mg/Kg		86	25 - 162	1	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 490-182355/10
Matrix: Solid
Analysis Batch: 182355

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			08/08/14 14:33	1
Ethylbenzene	ND		0.00200		mg/Kg			08/08/14 14:33	1
Toluene	ND		0.00200		mg/Kg			08/08/14 14:33	1
Xylenes, Total	ND		0.00300		mg/Kg			08/08/14 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*08/08/14 14:33*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*08/08/14 14:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*08/08/14 14:33*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*08/08/14 14:33*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-182355/3
Matrix: Solid
Analysis Batch: 182355

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04810		mg/Kg		96	75 - 127
Ethylbenzene	0.0500	0.04560		mg/Kg		91	80 - 134
Toluene	0.0500	0.04720		mg/Kg		94	80 - 132
Xylenes, Total	0.100	0.09111		mg/Kg		91	80 - 137

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 490-182355/4
Matrix: Solid
Analysis Batch: 182355

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04735		mg/Kg		95	75 - 127	2	50
Ethylbenzene	0.0500	0.04507		mg/Kg		90	80 - 134	1	50
Toluene	0.0500	0.04646		mg/Kg		93	80 - 132	2	50
Xylenes, Total	0.100	0.09110		mg/Kg		91	80 - 137	0	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 490-182654/1-A
Matrix: Solid
Analysis Batch: 182767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182654

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
Benzo[a]pyrene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
Benzo[b]fluoranthene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
Benzo[k]fluoranthene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
Chrysene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
Dibenz(a,h)anthracene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
Indeno[1,2,3-cd]pyrene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
1-Methylnaphthalene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
2-Methylnaphthalene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1
Naphthalene	ND		0.00333		mg/Kg		08/09/14 11:41	08/10/14 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*29 - 120*	*08/09/14 11:41*	*08/10/14 13:30*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 490-182654/1-A
Matrix: Solid
Analysis Batch: 182767

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 182654

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	91		27 - 120	08/09/14 11:41	08/10/14 13:30	1
Terphenyl-d14	105		13 - 120	08/09/14 11:41	08/10/14 13:30	1

Lab Sample ID: LCS 490-182654/2-A
Matrix: Solid
Analysis Batch: 182767

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 182654

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	0.0333	0.03214		mg/Kg		96	45 - 120
Benzo[a]pyrene	0.0333	0.02982		mg/Kg		89	45 - 120
Benzo[b]fluoranthene	0.0333	0.03100		mg/Kg		93	42 - 120
Benzo[k]fluoranthene	0.0333	0.03307		mg/Kg		99	42 - 120
Chrysene	0.0333	0.03353		mg/Kg		101	43 - 120
Dibenz(a,h)anthracene	0.0333	0.02579		mg/Kg		77	32 - 128
Indeno[1,2,3-cd]pyrene	0.0333	0.02758		mg/Kg		83	41 - 121
1-Methylnaphthalene	0.0333	0.02140		mg/Kg		64	32 - 120
2-Methylnaphthalene	0.0333	0.02152		mg/Kg		65	28 - 120
Naphthalene	0.0333	0.02192		mg/Kg		66	32 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	72		29 - 120
Nitrobenzene-d5	72		27 - 120
Terphenyl-d14	101		13 - 120

Lab Sample ID: 490-59007-E-1-B MS
Matrix: Solid
Analysis Batch: 182767

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 182654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	ND		0.0372	0.01791		mg/Kg	☼	48	23 - 120
Benzo[a]pyrene	ND		0.0372	0.01431		mg/Kg	☼	38	15 - 128
Benzo[b]fluoranthene	ND		0.0372	0.01704		mg/Kg	☼	46	12 - 133
Benzo[k]fluoranthene	ND		0.0372	0.01590		mg/Kg	☼	43	28 - 120
Chrysene	ND		0.0372	0.01856		mg/Kg	☼	50	20 - 120
Dibenz(a,h)anthracene	ND		0.0372	0.01031		mg/Kg	☼	28	12 - 128
Indeno[1,2,3-cd]pyrene	ND		0.0372	0.01013		mg/Kg	☼	27	22 - 121
1-Methylnaphthalene	ND		0.0372	0.02216		mg/Kg	☼	53	10 - 120
2-Methylnaphthalene	ND		0.0372	0.02299		mg/Kg	☼	52	13 - 120
Naphthalene	0.0439		0.0372	0.05031		mg/Kg	☼	17	10 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	68		29 - 120
Nitrobenzene-d5	68		27 - 120
Terphenyl-d14	71		13 - 120

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 490-59007-E-1-C MSD
Matrix: Solid
Analysis Batch: 182767

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 182654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	ND		0.0368	0.02384		mg/Kg	☼	65	23 - 120	28	50
Benzo[a]pyrene	ND		0.0368	0.01827		mg/Kg	☼	50	15 - 128	24	50
Benzo[b]fluoranthene	ND		0.0368	0.02218		mg/Kg	☼	60	12 - 133	26	50
Benzo[k]fluoranthene	ND		0.0368	0.02121		mg/Kg	☼	58	28 - 120	29	45
Chrysene	ND		0.0368	0.02485		mg/Kg	☼	68	20 - 120	29	49
Dibenz(a,h)anthracene	ND		0.0368	0.01334		mg/Kg	☼	36	12 - 128	26	50
Indeno[1,2,3-cd]pyrene	ND		0.0368	0.01295		mg/Kg	☼	35	22 - 121	24	50
1-Methylnaphthalene	ND		0.0368	0.02665		mg/Kg	☼	66	10 - 120	18	50
2-Methylnaphthalene	ND		0.0368	0.02771		mg/Kg	☼	66	13 - 120	19	50
Naphthalene	0.0439		0.0368	0.05962		mg/Kg	☼	43	10 - 120	17	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*75*		*29 - 120*
Nitrobenzene-d5	*73*		*27 - 120*
Terphenyl-d14	*84*		*13 - 120*

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC)

Lab Sample ID: MB 490-183541/4
Matrix: Solid
Analysis Batch: 183541

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		5.00		mg/Kg			08/13/14 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*50 - 150*		*08/13/14 16:12*	*1*

Lab Sample ID: LCS 490-183541/19
Matrix: Solid
Analysis Batch: 183541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	10.0	11.15		mg/Kg		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*128*		*50 - 150*

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 490-184429/1-A
Matrix: Solid
Analysis Batch: 185267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.00		mg/Kg		08/17/14 11:10	08/21/14 10:49	1
C24-C40	ND		4.00		mg/Kg		08/17/14 11:10	08/21/14 10:49	1

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: MB 490-184429/1-A
Matrix: Solid
Analysis Batch: 185267

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184429

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	80		50 - 150	08/17/14 11:10	08/21/14 10:49	1

Lab Sample ID: LCS 490-184429/2-A
Matrix: Solid
Analysis Batch: 185267

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184429

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C24			40.0	46.39		mg/Kg		116	55 - 129		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl	119		50 - 150

Lab Sample ID: 490-58907-1 DU
Matrix: Solid
Analysis Batch: 185267

Client Sample ID: SO-241739-080614-JS-SB-5-2
Prep Type: Total/NA
Prep Batch: 184429

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
C10-C24	ND			ND		mg/Kg	☼			27	50
C24-C40	ND			ND		mg/Kg	☼			NC	50

Surrogate	DU %Recovery	DU Qualifier	Limits
o-Terphenyl	114		50 - 150

Method: Moisture - Percent Moisture

Lab Sample ID: 490-58907-1 DU
Matrix: Solid
Analysis Batch: 182482

Client Sample ID: SO-241739-080614-JS-SB-5-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Solids	81			81		%				0.5	20

GC/MS VOA

Prep Batch: 182302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	5035	
490-58907-8	Trip Blank	Total/NA	Solid	5035	

Prep Batch: 182309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58898-D-3-A MS	Matrix Spike	Total/NA	Solid	5035	
490-58898-D-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 182355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58898-D-3-A MS	Matrix Spike	Total/NA	Solid	8260B	182309
490-58898-D-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	182309
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	8260B	182302
490-58907-8	Trip Blank	Total/NA	Solid	8260B	182302
LCS 490-182355/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-182355/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-182355/10	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 182654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	3550C	
490-59007-E-1-B MS	Matrix Spike	Total/NA	Solid	3550C	
490-59007-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
LCS 490-182654/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 490-182654/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 182767

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-59007-E-1-B MS	Matrix Spike	Total/NA	Solid	8270D SIM	182654
490-59007-E-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D SIM	182654
LCS 490-182654/2-A	Lab Control Sample	Total/NA	Solid	8270D SIM	182654
MB 490-182654/1-A	Method Blank	Total/NA	Solid	8270D SIM	182654

Analysis Batch: 182816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	8270D SIM	182654

GC VOA

Prep Batch: 182295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	5035	

Analysis Batch: 183541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	NWTPH-Gx	182295
LCS 490-183541/19	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
MB 490-183541/4	Method Blank	Total/NA	Solid	NWTPH-Gx	

QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood

TestAmerica Job ID: 490-58907-1
SDG: SAP#171152 / 241739

GC Semi VOA

Prep Batch: 184429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58907-1	SO-241739-080614-JS-SB-5-2	Total/NA	Solid	3550B	
490-58907-1 DU	SO-241739-080614-JS-SB-5-2	Total/NA	Solid	3550B	
490-58907-2	SO-241739-080614-JS-SB-5-5	Total/NA	Solid	3550B	
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	3550B	
490-58907-4	SO-241739-080614-JS-SB-6-2	Total/NA	Solid	3550B	
490-58907-5	SO-241739-080614-JS-SB-6-5	Total/NA	Solid	3550B	
490-58907-6	SO-241739-080614-JS-SB-7-2	Total/NA	Solid	3550B	
490-58907-7	SO-241739-080614-JS-SB-7-5	Total/NA	Solid	3550B	
LCS 490-184429/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-184429/1-A	Method Blank	Total/NA	Solid	3550B	

Analysis Batch: 185267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58907-1	SO-241739-080614-JS-SB-5-2	Total/NA	Solid	NWTPH-Dx	184429
490-58907-1 DU	SO-241739-080614-JS-SB-5-2	Total/NA	Solid	NWTPH-Dx	184429
490-58907-2	SO-241739-080614-JS-SB-5-5	Total/NA	Solid	NWTPH-Dx	184429
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	NWTPH-Dx	184429
490-58907-4	SO-241739-080614-JS-SB-6-2	Total/NA	Solid	NWTPH-Dx	184429
490-58907-5	SO-241739-080614-JS-SB-6-5	Total/NA	Solid	NWTPH-Dx	184429
490-58907-6	SO-241739-080614-JS-SB-7-2	Total/NA	Solid	NWTPH-Dx	184429
490-58907-7	SO-241739-080614-JS-SB-7-5	Total/NA	Solid	NWTPH-Dx	184429
LCS 490-184429/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	184429
MB 490-184429/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	184429

General Chemistry

Analysis Batch: 182482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58907-1	SO-241739-080614-JS-SB-5-2	Total/NA	Solid	Moisture	
490-58907-1 DU	SO-241739-080614-JS-SB-5-2	Total/NA	Solid	Moisture	
490-58907-2	SO-241739-080614-JS-SB-5-5	Total/NA	Solid	Moisture	
490-58907-3	SO-241739-080614-JS-SB-5-8.5	Total/NA	Solid	Moisture	
490-58907-4	SO-241739-080614-JS-SB-6-2	Total/NA	Solid	Moisture	
490-58907-5	SO-241739-080614-JS-SB-6-5	Total/NA	Solid	Moisture	
490-58907-6	SO-241739-080614-JS-SB-7-2	Total/NA	Solid	Moisture	
490-58907-7	SO-241739-080614-JS-SB-7-5	Total/NA	Solid	Moisture	

Client Sample ID: SO-241739-080614-JS-SB-5-2

Lab Sample ID: 490-58907-1

Date Collected: 08/06/14 09:10
Matrix: Solid
Date Received: 08/07/14 08:15
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			31.00 g	1.00 mL	184429	08/17/14 11:10	LDC	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	31.00 g	1.00 mL	185267	08/21/14 11:18	JPS	TAL NSH
Total/NA	Analysis	Moisture		1			182482	08/08/14 14:31	RRS	TAL NSH

Client Sample ID: SO-241739-080614-JS-SB-5-5

Lab Sample ID: 490-58907-2

Date Collected: 08/06/14 09:25
Matrix: Solid
Date Received: 08/07/14 08:15
Percent Solids: 66.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			38.07 g	1.00 mL	184429	08/17/14 11:10	LDC	TAL NSH
Total/NA	Analysis	NWTPH-Dx		2	38.07 g	1.00 mL	185267	08/21/14 15:07	JPS	TAL NSH
Total/NA	Analysis	Moisture		1			182482	08/08/14 14:31	RRS	TAL NSH

Client Sample ID: SO-241739-080614-JS-SB-5-8.5

Lab Sample ID: 490-58907-3

Date Collected: 08/06/14 10:00
Matrix: Solid
Date Received: 08/07/14 08:15
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.106 g	5.0 mL	182302	08/08/14 06:55	JLP	TAL NSH
Total/NA	Analysis	8260B		1	6.106 g	5.0 mL	182355	08/08/14 15:28	SNR	TAL NSH
Total/NA	Prep	3550C			30.99 g	1.00 mL	182654	08/09/14 11:53	LOJ	TAL NSH
Total/NA	Analysis	8270D SIM		1	30.99 g	1.00 mL	182816	08/11/14 17:17	BES	TAL NSH
Total/NA	Prep	5035			6.081 g	10.0 mL	182295	08/08/14 06:54	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	6.081 g	10.0 mL	183541	08/14/14 08:24	AMC	TAL NSH
Total/NA	Prep	3550B			28.03 g	1.00 mL	184429	08/17/14 11:10	LDC	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	28.03 g	1.00 mL	185267	08/21/14 15:22	JPS	TAL NSH
Total/NA	Analysis	Moisture		1			182482	08/08/14 14:31	RRS	TAL NSH

Client Sample ID: SO-241739-080614-JS-SB-6-2

Lab Sample ID: 490-58907-4

Date Collected: 08/06/14 10:30
Matrix: Solid
Date Received: 08/07/14 08:15
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			27.48 g	1.00 mL	184429	08/17/14 11:10	LDC	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	27.48 g	1.00 mL	185267	08/21/14 11:47	JPS	TAL NSH
Total/NA	Analysis	Moisture		1			182482	08/08/14 14:31	RRS	TAL NSH

Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood

TestAmerica Job ID: 490-58907-1
SDG: SAP#171152 / 241739

Client Sample ID: SO-241739-080614-JS-SB-6-5

Lab Sample ID: 490-58907-5
Matrix: Solid
Percent Solids: 60.6

Date Collected: 08/06/14 10:40
Date Received: 08/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			41.96 g	1.00 mL	184429	08/17/14 11:22	LDC	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	41.96 g	1.00 mL	185267	08/21/14 12:01	JPS	TAL NSH
Total/NA	Analysis	Moisture		1			182482	08/08/14 14:31	RRS	TAL NSH

Client Sample ID: SO-241739-080614-JS-SB-7-2

Lab Sample ID: 490-58907-6
Matrix: Solid
Percent Solids: 92.7

Date Collected: 08/06/14 12:25
Date Received: 08/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			27.02 g	1.00 mL	184429	08/17/14 11:22	LDC	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	27.02 g	1.00 mL	185267	08/21/14 15:36	JPS	TAL NSH
Total/NA	Analysis	Moisture		1			182482	08/08/14 14:31	RRS	TAL NSH

Client Sample ID: SO-241739-080614-JS-SB-7-5

Lab Sample ID: 490-58907-7
Matrix: Solid
Percent Solids: 62.5

Date Collected: 08/06/14 12:40
Date Received: 08/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			40.42 g	1.00 mL	184429	08/17/14 11:22	LDC	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	40.42 g	1.00 mL	185267	08/21/14 15:51	JPS	TAL NSH
Total/NA	Analysis	Moisture		1			182482	08/08/14 14:31	RRS	TAL NSH

Client Sample ID: Trip Blank

Lab Sample ID: 490-58907-8
Matrix: Solid

Date Collected: 08/06/14 00:01
Date Received: 08/07/14 08:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.0 g	5.0 mL	182302	08/08/14 06:55	JLP	TAL NSH
Total/NA	Analysis	8260B		1	5.0 g	5.0 mL	182355	08/08/14 15:00	SNR	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood

TestAmerica Job ID: 490-58907-1
SDG: SAP#171152 / 241739

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Conestoga-Rovers & Associates, Inc.
Project/Site: 6808 196th St. SW, Lynnwood

TestAmerica Job ID: 490-58907-1
SDG: SAP#171152 / 241739

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-58907 Chain of Custody

Cooler Received/Opened On 8/7/2014 @ 0815

1. Tracking # 9725 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 5.0 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? YES...(NO)...NA

If yes, how many and where: _____

5. Were the seals intact, signed, and dated correctly? YES...NO...(NA)

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) mdm

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) (Plastic bag) Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? YES...(NO)...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA) 50:1

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

~~15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA~~

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? (YES)...NO Was a NCM generated? (YES)...NO...# _____

For sample 7 the date and time of 8-6 at 1430 recorded on the label.

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE (_____)
- ☐ SPL Houston (_____)
- ☐ XENCO (_____)
- ☑ TEST AMERICA (Nashville, TN)
- ☐ OTHER (_____)

Please Check Appropriate Box:
- ☐ ENV. SERVICES
- ☐ MOTIVA RETAIL
- ☐ SHELL RETAIL
- ☐ MOTIVA SD&CM
- ☑ CONSULTANT
- ☐ LUBES
- ☐ SHELL PIPELINE
- ☐ OTHER _____

Print Bill To Contact Name: Christina Mcclelland-24729-30460

INCIDENT # (ENV SERVICES): 1 1 7 1 1 5 2 ☐ CHECK IF NO INCIDENT # APPLIES

DATE: 8/6/14

PAGE: 1 of 1

PO #: 4 0 4 0 3 6 0 5 8

SAP #: 9 7 6 0 5 4 1 0

SAMPLING COMPANY: Conestoga-Rovers & Associates	LOG CODE: CRAW	SITE ADDRESS: Street and City: 6808 196th St SW, Lynnwood	State: WA
ADDRESS: 20818 44th Ave West, Suite 190, Lynnwood, WA 98036		EDF DELIVERABLE TO (Name, Company, Office Location): Christine Diel, CRA	PHONE NO.: 425-563-6500
PROJECT CONTACT (Hardcopy or PDF Report to): Christina Mcclelland		E-MAIL: cdiel@CRAworld.com	CONSULTANT PROJECT NO.: 24729-30460
TELEPHONE: 425-563-6500	FAX: 425-563-6599	E-MAIL: CMCCLELLAND@CRAWORLD.com	SAMPLER NAME(S) (Print): Jing Song

TURNAROUND TIME (CALENDAR DAYS): X STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Copy final report to Shell.Lab.Billing@craworld.com

See TA PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits

- ☑ SHELL CONTRACT RATE APPLIES
- ☐ STATE REIMBURSEMENT RATE APPLIES
- ☐ EDD NOT NEEDED
- ☐ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT C°: 5.0

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB (8011)	Total Lead (6020)	PCBs (8082)	PAHs (8070 SIM) cPAHs	VOCs Full list (8260B)	Pest (8080)	NWTPH-VPH	NWTPH-EPH	n-Hexane (9071B)	Naphthalenes (8270C SIM)	Container PID Readings or Laboratory Notes
	SD-24729-080614-JS-SB-5-2	8/6	910	SD						1		X														* Include
	SD-24729-080614-JS-SB-5-5	8/6	925	SD						1		X														naphthalene,
	SD-24729-080614-JS-SB-5B5	8/6	1000	SD						6	X	X	X		X	X			X						X	1-methyl naphthalene,
	SD-24729-080614-JS-SB-6-2	8/6	1020	SD						1		X														2,3-methyl naphthalene
	SD-24729-080614-JS-SB-6-5	8/6	1040	SD						1		X														
	SD-24729-080614-JS-SB-7-2	8/6	1225	SD						1		X														
	SD-24729-080614-JS-SB-7-	8/6		SD						1		X														

-1 -2 -3 -4 -5 -6 -7

Loc: 490
58907

Relinquished by: (Signature)	Received by: (Signature) FedEx	Date: 8/6/14	Time: 1500
Relinquished by: (Signature)	Received by: (Signature) TAW	Date: 8-7-14	Time: 0815
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

05/2/06 Revision

Page 26 of 28

8/26/2014

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☐ CALSCIENCE ( )
- ☐ SPL Houston ( )
- ☐ XENCO ( )
- ☑ TEST AMERICA ([illegible])
- ☐ OTHER ( )

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL ☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES ☐ SHELL PIPELINE ☐ OTHER

Print Bill To Contact Name: [illegible]

INCIDENT # (ENV SERVICES): [illegible] ☐ CHECK IF NO INCIDENT # APPLIES

PO #: 4 0 4 0 3 6 0 5 8

SAP #: [illegible]

DATE: 8/6/[illegible]
PAGE: 1 of

SAMPLING COMPANY	Conestoga-Rovers & Associates
LOG CODE	CRAW
ADDRESS	20818 44th Ave West, Suite 190, Lynnwood, WA 98036
PROJECT CONTACT (Hardcopy or PDF Report to)	[illegible]
TELEPHONE	425-563-6500
FAX	425-563-6599
E-MAIL	[illegible]
SITE ADDRESS: Street and City	[illegible] Lynnwood
State	WA
GLOBAL ID NO.	
EDF DELIVERABLE TO (Name, Company, Office Location)	Christine Diel, CRA
PHONE NO.	425-563-6500
E-MAIL	cdiel@CRAworld.com
CONSULTANT PROJECT NO.	[illegible]
SAMPLER NAME(S) (Print)	[illegible]
LAB USE ONLY	

TURNAROUND TIME (CALENDAR DAYS): ✓ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :

Copy final report to Shell.Lab.Billing@craworld.com

See TA PM for WA Dept. of Ecology MTCA Method A cleanup levels for <u>minimum</u> detection limits

☑ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☐ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDC (8011)	Total Lead (6020)	PCBs (8082)	PAHs (8070 SIM)	VOCs Full list (8260B)	Pest (8080)	NWTPH-VPH	NWTPH-EPH	n-Hexane (9071B)	Naphthalenes (8270 SIM)	Container PID Readings or Laboratory Notes
	[illegible]	8/6	910	SO						1		X														* Include
	[illegible] -5	8/6	[illegible]	SO						1		X														naphthalene
	[illegible]	8/6	1000	SO						6	X	X	X		X	X			X						X	1-methyl naphthalene
	[illegible]	8/6	1020	SO						1		X														2-methyl naphthalene
	[illegible] -5	8/6	1040	SO						1		X														
	[illegible]	8/6	1025	SO						1		X														
	[illegible] -5	8/6	1240	SO						1		X														

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	FedEx	8/6/14	1200

C5/2/06 Revision

Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-58907-2

SDG Number: SAP#171152 / 241739

Login Number: 58907

List Source: TestAmerica Nashville

List Number: 1

Creator: Huckaba, Jimmy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	