

From: [Maeng, Byung \(ECY\)](#)
To: [Brian O'Neal](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [rtroy@tcco.com](#); [McDowell, Bryce M - \(SEA\)](#); [Ron D. Coringrato](#); ["Paul Dimakos"](#); [Daniel Balbiani](#); [Kim Vik](#); [Karsten Springstead](#); [Jacqueline DePriest](#); [Hannah Cohen](#); [Kovas Zygas](#)
Subject: RE: Former American Linen Supply Company - SMA-4 from 7.5 to 5 feet Contained-In Addendum (9/04/19)
Date: Wednesday, September 4, 2019 12:41:23 PM
Attachments: [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 140 tons of soil from SMA-4 under the contained-in determination.

Since the soil is excavated from the groundwater zone, please ensure that no standing water is present within containers holding the contaminated soils. All water must be removed to the maximum extent possible from the containers. Adding bentonite or similar materials to absorb F002 listed waste contaminated water in the containers is not allowed. Mixture of bentonite or similar materials with contaminated groundwater and/or contaminated soil must be managed as dangerous wastes.

From: Brian O'Neal <boneal@pesenv.com>
Sent: Wednesday, September 4, 2019 11:56 AM
To: Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>
Cc: Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Timm, Ronald W. (ECY) <rtim461@ECY.WA.GOV>; Drew Graham <dgraham@oacsvcs.com>; Brad Rock <brock@oacsvcs.com>; John Moshy <john.moshy@biomedrealty.com>; Smith, Jeff A - (SEA) <JXSmith@tcco.com>; Walcott, James P - (SEA) <jpwalcott@tcco.com>; rtroy@tcco.com; McDowell, Bryce M - (SEA) <bmcowell@tcco.com>; Ron D. Coringrato <RCoringrato@ecc.net>; 'Paul Dimakos' <pdimakos@ecc.net>; Daniel Balbiani <dbalbani@pesenv.com>; Kim Vik <KVik@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>; Jacqueline DePriest <jdepriest@pesenv.com>; Hannah Cohen <HCohen@pesenv.com>; Kovas Zygas <kzygas@pesenv.com>
Subject: Former American Linen Supply Company - SMA-4 from 7.5 to 5 feet Contained-In Addendum (9/04/19)
 Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **140 tons** of soil from SMA-4 from elevation 7.5 to 5 that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)						
				PCE		TCE		cDCE		VC
Contained-In Criteria				14	10	160	0.67			
4	7	04-07-204-06	09/03/19	2.28	0.141	<0.172	U	<0.215	U	
	9	04-09-201-07.5	09/03/19	0.597	<0.148	U	<0.148	U	<0.184	U
	7	04-07-201-06	09/03/19	0.465	<0.197	U	<0.197	U	<0.246	U
	7	04-07-203-06	09/03/19	0.511	<0.205	U	<0.205	U	<0.256	U
	7	04-07-202-05.5	09/03/19	0.482	<0.222	U	<0.222	U	<0.277	U
	7	04-07-202-06.5	09/03/19	0.413	<0.162	U	<0.162	U	<0.203	U
Notes:										
1. U = analyte not detected above the reporting limit shown.										
2. J = analyte detected above the method detection limit but below the reporting limit.										
3. Lift elevation is the top of each treatment lift.										
4. Sample naming convention:										
AA-BB-CC-DD Elevation Sample ID Lift Area										

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in

soils pending your review of these analytical results. This treatment included additional soil from the northern portion of SMA-4 from elevation 7.5 to 5 feet that was identified based on field-screening and confirmed by test pit samples to have PCE concentrations above the contained-in criteria of 14 mg/kg (defined by the green dashed lines on the annotated Figure 7B). Pre-treatment concentrations are shown on CMMP Figure 7B and the post-treatment samples locations are shown on the "lift map" (Lift 7) prepared by Turner Construction (these figures are attached for your reference). PES has modified these maps to show the treated area defined by the test pit samples. As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination. This is the final planned treatment in SMA-4 consistent with the CMMP.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Brian O'Neal, P.E.

PES Environmental, Inc.

ph: 206-529-3980 x104

cell: 425-241-2627

From: [Brian O'Neal](#)
To: [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [rtroy@tcco.com](#); [McDowell, Bryce M - \(SEA\)](#); [Ron D. Coringrato](#); ["Paul Dimakos"](#); [Daniel Balbiani](#); [Kim Vik](#); [Karsten Springstead](#); [Jacqueline DePriest](#); [Hannah Cohen](#); [Kovas Zygas](#)
Subject: Former American Linen Supply Company - SMA-4 from 7.5 to 5 feet Contained-In Addendum (9/04/19)
Date: Wednesday, September 4, 2019 11:55:00 AM
Attachments: [CMMP Figure 4.pdf](#)
[image001.png](#)
[Rpt_1909011_American_Linen_Final_v1.pdf](#)
[CMMP Figure 7B 7.5-5.pdf](#)
[Dexter Yard_In-Situ_Lift_7_7.5-5_SMA4.pdf](#)

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **140 tons** of soil from SMA-4 from elevation 7.5 to 5 that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)					
				PCE		TCE		cDCE	
Contained-In Criteria				14	10	160		0.67	
4	7	04-07-204-06	09/03/19	2.28	0.141	<0.172 U		<0.215 U	
	9	04-09-201-07.5	09/03/19	0.597	<0.148 U	<0.148 U		<0.184 U	
	7	04-07-201-06	09/03/19	0.465	<0.197 U	<0.197 U		<0.246 U	
	7	04-07-203-06	09/03/19	0.511	<0.205 U	<0.205 U		<0.256 U	
	7	04-07-202-05.5	09/03/19	0.482	<0.222 U	<0.222 U		<0.277 U	
	7	04-07-202-06.5	09/03/19	0.413	<0.162 U	<0.162 U		<0.203 U	

Notes:

1. U = analyte not detected above the reporting limit shown.

2. J = analyte detected above the method detection limit but below the reporting limit.

3. Lift elevation is the top of each treatment lift.

AA-BB-CC-DD

Elevation

Sample ID

Lift

Area

4. Sample naming convention:

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included additional soil from the northern portion of SMA-4 from elevation 7.5 to 5 feet that was identified based on field-screening and confirmed by test pit samples to have PCE concentrations above the contained-in criteria of 14 mg/kg (defined by the green dashed lines on the annotated Figure 7B). Pre-treatment concentrations are shown on CMMP Figure 7B and the post-treatment samples locations are shown on the "lift map" (Lift 7) prepared by Turner Construction (these figures are attached for your reference). PES has modified these maps to show the treated area defined by the test pit samples. As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination. This is the final planned treatment in SMA-4 consistent with the CMMP.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Brian O'Neal, P.E.
PES Environmental, Inc.

ph: 206-529-3980 x104
cell: 425-241-2627

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included additional soil from the northern portion of SMA-4 from elevation 12.5 to 7.5 feet that was identified based on field-screening and confirmed by test pit samples to have PCE concentrations above the contained-in criteria of 14 mg/kg (defined by the green dashed lines on the annotated Figure 7B). Pre-treatment concentrations are shown on CMMP Figure 7B and the post-treatment samples locations are shown on the "lift map" (Lift 9) prepared by Turner Construction (these figures are attached for your reference). PES has modified these maps to show the treated area defined by the test pit samples. As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Brian O'Neal, P.E.

PES Environmental, Inc.

ph: 206-529-3980 x104

cell: 425-241-2627

From: [Brian O'Neal](#)
To: [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [rtroy@tcco.com](#); [McDowell, Bryce M - \(SEA\)](#); [Ron D. Coringrato](#); ["Paul Dimakos"](#); [Daniel Balbiani](#); [Karsten Springstead](#); [Kim Vik](#); [Kovas Zygas](#); [Rachel T. McLaughlin](#)
Subject: Former American Linen Supply Company - SMA-4 from 10-7.5 feet Contained-In Addendum (8/28/2019)
Date: Wednesday, August 28, 2019 10:43:00 AM
Attachments: [CMMP Figure 4.pdf](#)
[image001.png](#)
[CMMP Figure 7B 12.5-7.5.pdf](#)
[Dexter Yard In-Situ Lift 9 12.5-7.5 SMA4.pdf](#)
[Rpt 1908365 American Linen Final v1.pdf](#)

Byung,

[Note: This is the second of two requests submitted for SMA-4 today. The first one was for elevations 12.5' to 10' and this one is for elevations 10' to 7.5' except as noted below]

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **140 tons** of soil from SMA-4 from elevation 12.5 to 7.5 that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)						
				PCE		TCE		cDCE		VC
Contained-In Criteria				14	10	160		0.67		
4	9	04-09-204-8.5	08/27/19	0.930	<0.154	U	0.0854	<0.192	U	
	9	04-09-202-09	08/27/19	1.05	<0.204	U	0.102	<0.254	U	
	9	04-09-203-8.5	08/27/19	1.48	<0.322	U	<0.322	U	<0.402	U
	9	04-09-201-09	08/27/19	1.28	<0.190	U	<0.190	U	<0.237	U
	9	04-09-201-08	08/27/19	1.79	<0.161	U	0.156	<0.201	U	
	9	04-09-202-08	08/27/19	1.76	<0.196	U	0.153	U	<0.245	U
Notes:										
1. U = analyte not detected above the reporting limit shown.										
2. J = analyte detected above the method detection limit but below the reporting limit.										
3. Lift elevation is the top of each treatment lift.										
AA-BB-CC-DD Elevation Sample ID Lift Area										
4. Sample naming convention:										

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included additional soil from the northern portion of SMA-4 from elevation 12.5 to 7.5 feet that was identified based on field-screening and confirmed by test pit samples to have PCE concentrations above the contained-in criteria of 14 mg/kg (defined by the green dashed lines on the annotated Figure 7B). Pre-treatment concentrations are shown on CMMP Figure 7B and the post-treatment samples locations are shown on the "lift map" (Lift 9) prepared by Turner Construction (these figures are attached for your reference). PES has modified these maps to show the treated area defined by the test pit samples. As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Brian O'Neal, P.E.

PES Environmental, Inc.

ph: 206-529-3980 x104

cell: 425-241-2627

From: [Maeng, Byung \(ECY\)](#)
To: [Brian O'Neal](#)
Subject: RE: Former American Linen Supply Company - SMA-4 from 12.5-10 feet Contained-In Addendum (8/28/2019)
Date: Thursday, August 29, 2019 10:20:09 AM
Attachments: [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 90 tons of soil from SMA-4 under the contained-in determination.

Since this soil is excavated from the groundwater zone, please ensure that no standing water is present within containers holding the contaminated soils. All water must be removed to the maximum extent possible from the containers. Adding bentonite or similar materials to absorb F002 listed waste contaminated water in the containers is not allowed. Mixture of bentonite or similar materials with contaminated groundwater and/or contaminated soil must be managed as dangerous wastes.

From: Brian O'Neal <boneal@pesenv.com>

Sent: Thursday, August 29, 2019 10:01 AM

To: Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>

Subject: Former American Linen Supply Company - SMA-4 from 12.5-10 feet Contained-In Addendum (8/28/2019)
Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **90 tons** of soil from SMA-4 from elevation 12.5 to 10 that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)							
				PCE		TCE		cDCE		VC	
Contained-In Criteria				14	10		160		0.67		
4	13	04-13-201-12	08/20/19	0.346	<0.181	U	<0.181	U	<0.226	U	
	13	04-13-201-11	08/20/19	0.182	<0.201	U	<0.201	U	<0.251	U	
	13	04-13-202-12	08/20/19	0.243	<0.253	U	<0.253	U	<0.316	U	
	11	04-11-202-10.5	08/20/19	0.0960	<0.192	U	<0.192	U	<0.240	U	
	13	04-13-203-11.5	08/20/19	0.229	<0.194	U	0.0593		<0.242	U	
	11	04-11-203-10.5	08/20/19	0.0889	<0.182	U	<0.182	U	<0.227	U	
Notes:											
1. U = analyte not detected above the reporting limit shown.											
2. J = analyte detected above the method detection limit but below the reporting limit.											
3. Lift elevation is the top of each treatment lift.											
AA-BB-CC-DD Elevation Sample ID Lift Area											
4. Sample naming convention:											

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. Pre-treatment concentrations are shown on CMMP Figure 7B and the post-treatment samples locations are shown on the "lift map" (Lift 13) prepared by Turner Construction (these figures are attached for your reference). PES has modified these maps to show the treated area defined by the test pit samples. As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

Please let me know if you have any questions and we request your review of this data at your earliest

convenience.

From: [Brian O'Neal](#)
To: [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](#)
Subject: Former American Linen Supply Company - SMA-4 from 12.5-10 feet Contained-In Addendum (8/28/2019)
Date: Thursday, August 29, 2019 10:00:00 AM
Attachments: [CMMP Figure 4.pdf](#)
[image001.png](#)
[Dexter Yard In-Situ Lift 13 R14.pdf](#)
[CMMP Figure 7B.pdf](#)
[Rpt 1908308 American Linen Final v2.pdf](#)

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **90 tons** of soil from SMA-4 from elevation 12.5 to 10 that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)							
				PCE		TCE		cDCE		VC	
Contained-In Criteria				14	10		160		0.67		
4	13	04-13-201-12	08/20/19	0.346	<0.181	U	<0.181	U	<0.226	U	
	13	04-13-201-11	08/20/19	0.182	<0.201	U	<0.201	U	<0.251	U	
	13	04-13-202-12	08/20/19	0.243	<0.253	U	<0.253	U	<0.316	U	
	11	04-11-202-10.5	08/20/19	0.0960	<0.192	U	<0.192	U	<0.240	U	
	13	04-13-203-11.5	08/20/19	0.229	<0.194	U	0.0593		<0.242	U	
	11	04-11-203-10.5	08/20/19	0.0889	<0.182	U	<0.182	U	<0.227	U	
Notes:											
1. U = analyte not detected above the reporting limit shown.											
2. J = analyte detected above the method detection limit but below the reporting limit.											
3. Lift elevation is the top of each treatment lift.											
AA-BB-CC-DD Elevation Sample ID Lift Area											
4. Sample naming convention:											

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. Pre-treatment concentrations are shown on CMMP Figure 7B and the post-treatment samples locations are shown on the "lift map" (Lift 13) prepared by Turner Construction (these figures are attached for your reference). PES has modified these maps to show the treated area defined by the test pit samples. As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Based on the information provided below, Ecology approves the disposal of approximately 1,231 tons of soil from SMA-4 under the contained-in determination.

Since this soil is excavated from the groundwater zone, please ensure that no standing water is present within containers holding the contaminated soils. All water must be removed to the maximum extent possible from the containers. Adding bentonite or similar materials to absorb F002 listed waste contaminated water in the containers is not allowed. Mixture of bentonite or similar materials with contaminated groundwater and/or contaminated soil must be managed as dangerous wastes.

Byung Maeng, PE
Hazardous Waste and Toxics Reduction Program
Northwest Regional Office
(425) 649-7253, bmae461@ecy.wa.gov

From: Brian O'Neal [mailto:boneal@pesenv.com]
Sent: Wednesday, July 17, 2019 3:31 PM
To: Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>
Cc: Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Troy, Ryan - (SEA <RTroy@tcco.com>; Drew Graham <dgraham@oacsvcs.com>; Brad Rock <brock@oacsvcs.com>; Smith, Jeff A - (SEA <JXSmith@tcco.com>; Walcott, James P - (SEA <jpwalcott@tcco.com>; Troy, Ryan - (SEA <RTroy@tcco.com>; McDowell, Bryce M - (SEA <bmcldowell@tcco.com>; Ron D. Coringrato <RCoringrato@ecc.net>; Paul G. Dimakos <PDimakos@ecc.net>; Kim Vik <KVik@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>; Rachel T. McLaughlin <RMcLaughlin@pesenv.com>
Subject: Former American Linen Supply Company - SMA-4 Intermediate A Groundwater Zone Contained-In Addendum (7/17/2019)

Byung,

Pursuant to the requirements of your March 18, 2019 “Contained-In Determination for Contaminated Soils from the Former American Linen Supply Company in Seattle, Washington” letter, please find attached the laboratory data for Intermediate A groundwater zone confirmation soil samples (i.e., soil from below elevation 20 feet NAVD88) collected outside the treatment area but inside the boundaries of SMA-4. The samples were collected from test pits shown on the attached lift map. Note that no soil treatment is required in SMA-4 at this elevation, so refer to Figure 7b from the CMMP (attached) to show the treatment area starting at elevation 12.5 ft; the test pits are located outside of this deeper treatment area . These samples were collected between elevations of 20 and 18 ft to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **1,231 tons** of Intermediate A groundwater zone soil from SMA-4 located outside the treatment area but inside the boundaries of SMA-4 are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	19	04-19-110-18	07/15/19	<0.242 U	<0.193 U	<0.193 U	<0.242 U
	21	04-21-111-19	07/15/19	<0.231 U	<0.184 U	<0.184 U	<0.231 U
	21	04-21-112-20	07/15/19	<0.281 U	<0.225 U	<0.225 U	<0.281 U
Notes: 1. U = analyte not detected above the reporting limit shown. 2. J = analyte detected above the method detection limit but below the reporting limit. 3. Lift elevation is the top of each treatment lift.							



As shown above and in the attached laboratory report, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination. This request does not apply to Intermediate A groundwater zone soil located within the treatment area that will be treated in the future.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Brian O'Neal, P.E.

PES Environmental, Inc.

ph: 206-529-3980 x104

cell: 425-241-2627

From: [Brian O'Neal](#)
To: [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Troy, Ryan - \(SEA\)](#); [Drew Graham](#); [Brad Rock](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Ron D. Coringrator](#); [Paul G. Dimakos](#); [Kim Vik](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)
Subject: Former American Linen Supply Company - SMA-4 Intermediate A Groundwater Zone Contained-In Addendum (7/17/2019)
Date: Wednesday, July 17, 2019 3:30:00 PM
Attachments: [Dexter Yard In-Situ Lift 21 SMA4 Profile 3.pdf](#)
[Rpt_1907193_American_Linen_Final_v1.pdf](#)
[image001.png](#)
[CMMP Figure 7b.pdf](#)

Byung,

Pursuant to the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from the Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for Intermediate A groundwater zone confirmation soil samples (i.e., soil from below elevation 20 feet NAVD88) collected outside the treatment area but inside the boundaries of SMA-4. The samples were collected from test pits shown on the attached lift map. Note that no soil treatment is required in SMA-4 at this elevation, so refer to Figure 7b from the CMMP (attached) to show the treatment area starting at elevation 12.5 ft; the test pits are located outside of this deeper treatment area. These samples were collected between elevations of 20 and 18 ft to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **1,231 tons** of Intermediate A groundwater zone soil from SMA-4 located outside the treatment area but inside the boundaries of SMA-4 are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	19	04-19-110-18	07/15/19	<0.242 U	<0.193 U	<0.193 U	<0.242 U
	21	04-21-111-19	07/15/19	<0.231 U	<0.184 U	<0.184 U	<0.231 U
	21	04-21-112-20	07/15/19	<0.281 U	<0.225 U	<0.225 U	<0.281 U

Notes:

1. U = analyte not detected above the reporting limit shown.
2. J = analyte detected above the method detection limit but below the reporting limit.
3. Lift elevation is the top of each treatment lift.

AA-BB-CC-DD

Elevation

Sample ID

Lift

Area

4. Sample naming convention:

As shown above and in the attached laboratory report, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination. This request does not apply to Intermediate A groundwater zone soil located within the treatment area that will be treated in the future.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Brian O'Neal, P.E.

PES Environmental, Inc.

ph: 206-529-3980 x104

cell: 425-241-2627

From: [Maeng, Byung \(ECY\)](#)
To: [Daniel Balbiani](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Brad Rock](#); [Kim Vik](#); [Ron D. Coringrato](#); [Brian O'Neal](#); [Bill Haldeman](#)
Subject: RE: Former American Linen Supply Company - SMA4 24-22.5 Contained-In Addendum (6/26/2019)
Date: Thursday, June 27, 2019 7:59:20 AM
Attachments: [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 14 tons of soil from SMA-4 under the contained-in determination.

Byung Maeng, PE
Hazardous Waste and Toxics Reduction Program
Northwest Regional Office
 (425) 649-7253, bmae461@ecy.wa.gov

From: Daniel Balbiani [mailto:dbalbiani@pesenv.com]

Sent: Wednesday, June 26, 2019 3:14 PM

To: Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>

Cc: Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Timm, Ronald W. (ECY) <rtim461@ECY.WA.GOV>; Drew Graham <dgraham@oacsvcs.com>; John Moshy <john.moshy@biomedrealty.com>; Smith, Jeff A - (SEA) <JXSmith@tcco.com>; Walcott, James P - (SEA) <jpwalcott@tcco.com>; Troy, Ryan - (SEA) <RTroy@tcco.com>; McDowell, Bryce M - (SEA) <bmcowell@tcco.com>; Brad Rock <brock@oacsvcs.com>; Kim Vik <KVik@pesenv.com>; Ron D. Coringrato <RCoringrato@ecc.net>; Brian O'Neal <boneal@pesenv.com>; Bill Haldeman <bhaldeman@pesenv.com>

Subject: Former American Linen Supply Company - SMA4 24-22.5 Contained-In Addendum (6/26/2019)

Importance: High

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **14 tons** of soil that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	24	04-24-200-23	06/25/19	0.205	<0.172 U	<0.172 U	<0.215 U
	24	04-24-201-23.5	06/25/19	0.198	<0.168 U	<0.168 U	<0.210 U
Notes:							
1. U = analyte not detected above the reporting limit shown.							
2. J = analyte detected above the method detection limit but below the reporting limit.							
3. Lift elevation is the top of each treatment lift.							
AA-BB-CC-DD Elevation Sample ID Lift Area							
4. Sample naming convention:							

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included soil from SMA-4 from elevation 24-22.5 ft that was confirmed by additional test pits (area shown on figure 7a from the CMMP and the attached "lift map"). Pre-treatment concentrations are shown on CMMP Figure 7a and the post-treatment

From: [Daniel Balbiani](#)
To: [Maeng, Byung \(ECY\)](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Brad Rock](#); [Kim Vik](#); [Ron D. Coringrato](#); [Brian O'Neal](#); [Bill Haldeman](#)
Subject: Former American Linen Supply Company - SMA4 24-22.5 Contained-In Addendum (6/26/2019)
Date: Wednesday, June 26, 2019 3:13:53 PM
Attachments: [CMMP Figure 4.pdf](#)
[image001.png](#)
[Rpt_1906316_American_Linen_Final_v1.pdf](#)
[Figure 7a from CMMP \(SMA-4\).pdf](#)
[Soil Treatment Lift Map 25 SMA4 24.pdf](#)
Importance: High

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **14 tons** of soil that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	24	04-24-200-23	06/25/19	0.205	<0.172 U	<0.172 U	<0.215 U
	24	04-24-201-23.5	06/25/19	0.198	<0.168 U	<0.168 U	<0.210 U
Notes:							
1. U = analyte not detected above the reporting limit shown.							
2. J = analyte detected above the method detection limit but below the reporting limit.							
3. Lift elevation is the top of each treatment lift.							
AA-BB-CC-DD Elevation Sample ID Lift Area							
4. Sample naming convention:							

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included soil from SMA-4 from elevation 24-22.5 ft that was confirmed by additional test pits (area shown on figure 7a from the CMMP and the attached "lift map"). Pre-treatment concentrations are shown on CMMP Figure 7a and the post-treatment samples locations and treatment area are shown on the "lift map" prepared by Turner Construction (both of these figures are attached for your reference). As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Dan

Daniel Balbiani, P.E.
 Principal Engineer



PES Environmental, Inc.
Engineering & Environmental Services

1215 Fourth Ave., Suite 1350

Seattle, WA 98161

(206) 529-3980, Ext. #106

(206) 529-3985 fax

(425) 466-0770 cell

dbalbani@pesenv.com

From: [Maeng, Byung \(ECY\)](#)
To: [Daniel Balbiani](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Brad Rock](#); [Kim Vik](#); [Ron D. Coringrato](#); [Brian O'Neal](#); [Bill Haldeman](#)
Subject: RE: SMA4 26-24
Date: Monday, June 24, 2019 12:53:11 PM
Attachments: [image002.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 17 tons of soil from SMA 4 under the contained-in determination.

Byung Maeng, PE
Hazardous Waste and Toxics Reduction Program
Northwest Regional Office
 (425) 649-7253, bmae461@ecy.wa.gov

From: Daniel Balbiani [mailto:dbalbiani@pesenv.com]

Sent: Monday, June 24, 2019 8:06 AM

To: Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>

Cc: Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Timm, Ronald W. (ECY) <rtim461@ECY.WA.GOV>; Drew Graham <dgraham@oacsvcs.com>; John Moshy <john.moshy@biomedrealty.com>; Smith, Jeff A - (SEA) <JXSmith@tcco.com>; Walcott, James P - (SEA) <jpwalcott@tcco.com>; Troy, Ryan - (SEA) <RTroy@tcco.com>; McDowell, Bryce M - (SEA) <bmcowell@tcco.com>; Brad Rock <brock@oacsvcs.com>; Kim Vik <Kvik@pesenv.com>; Ron D. Coringrato <RCoringrato@ecc.net>; Brian O'Neal <boneal@pesenv.com>; Bill Haldeman <bhaldeman@pesenv.com>

Subject: FW: SMA4 26-24

Importance: High

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **17 tons** of soil that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table (sample B-949-25 in the laboratory report is a field duplicate of 04-25-201-25) :

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	26	04-25-200-25	06/21/19	0.0905	<0.168 U	<0.168 U	<0.210 U
	26	04-25-201-25	06/21/19	0.0824	<0.181 U	<0.181 U	<0.227 U

Notes:

- U = analyte not detected above the reporting limit shown.
- J = analyte detected above the method detection limit but below the reporting limit.
- Lift elevation is the top of each treatment lift.

AA-BB-CC-DD

Elevation
Sample ID
Lift
Area

4. Sample naming convention:

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included soil from SMA-4 from elevation 26 to 24 ft that was confirmed by additional test pits and overburden samples (area shown on the attached annotated Figure 7a from the CMMP). Pre-treatment concentrations are shown on CMMP Figure 7a and the

post-treatment samples locations and treatment area are shown on the “lift map” prepared by Turner Construction (both of these figures are attached for your reference). As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Dan

Daniel Balbiani, P.E.

Principal Engineer



1215 Fourth Ave., Suite 1350

Seattle, WA 98161

(206) 529-3980, Ext. #106

(206) 529-3985 fax

(425) 466-0770 cell

dbalbiani@pesenv.com

From: [Daniel Balbiani](#)
To: [Maeng, Byung \(ECY\)](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Brad Rock](#); [Kim Vik](#); [Ron D. Coringrato](#); [Brian O'Neal](#); [Bill Haldeman](#)
Subject: FW: SMA4 26-24
Date: Monday, June 24, 2019 8:06:11 AM
Attachments: [pastedImagebase640.png](#)
[CMMP Figure 4.pdf](#)
[Figure 7a from CMMP \(SMA-4\).pdf](#)
[Rpt_1906274_American_Linen_Final_v1.pdf](#)
[Outlook-yb3bjkx4.png](#)
[Outlook-c2xgae1w.png](#)
[Outlook-5tmuz0zm.png](#)
[Outlook-m2emfnwv.png](#)
[Outlook-vu0teqvz.png](#)
[Outlook-yfsm0dy4.png](#)
[Outlook-ctmhierw.png](#)
[Outlook-szqwhelt.png](#)
[Soil Treatment Lift Map 25 SMA4.pdf](#)
Importance: High

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 “Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington” letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **17 tons** of soil that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table (sample B-949-25 in the laboratory report is a field duplicate of 04-25-201-25) :

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	26	04-25-200-25	06/21/19	0.0905	<0.168 U	<0.168 U	<0.210 U
	26	04-25-201-25	06/21/19	0.0824	<0.181 U	<0.181 U	<0.227 U
Notes:							
1. U = analyte not detected above the reporting limit shown.							
2. J = analyte detected above the method detection limit but below the reporting limit.							
3. Lift elevation is the top of each treatment lift.							
AA-BB-CC-DD Elevation Sample ID Lift Area							
4. Sample naming convention:							

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included soil from SMA-4 from elevation 26 to 24 ft that was confirmed by additional test pits and overburden samples (area shown on the attached annotated Figure 7a from the CMMP). Pre-treatment concentrations are shown on CMMP Figure 7a and the post-treatment samples locations and treatment area are shown on the “lift map” prepared by Turner Construction (both of these figures are attached for your reference). As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Dan

Daniel Balbiani, P.E.

Principal Engineer



PES Environmental, Inc.
Engineering & Environmental Services

1215 Fourth Ave., Suite 1350

Seattle, WA 98161

(206) 529-3980, Ext. #106

(206) 529-3985 fax

(425) 466-0770 cell

dbalbiani@pesenv.com

From: [Maeng, Byung \(ECY\)](#)
To: [Brian O'Neal](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [Daniel Balbiani](#); [McDowell, Bryce M - \(SEA\)](#); [Brad Rock](#); [Kim Vik](#); [Ron D. Coringrato](#)
Subject: RE: Former American Linen Supply Company - Contained-In Addendum (6/20/19)
Date: Thursday, June 20, 2019 2:59:03 PM
Attachments: [image001.png](#)

This disposal approval is for 10 tons of soils described in this email chain.

Byung Maeng, PE
Hazardous Waste and Toxics Reduction Program
Northwest Regional Office
(425) 649-7253, bmae461@ecy.wa.gov

From: Maeng, Byung (ECY)
Sent: Thursday, June 20, 2019 11:23 AM
To: 'Brian O'Neal' <boneal@pesenv.com>
Cc: Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Timm, Ronald W. (ECY) <rtim461@ECY.WA.GOV>; Drew Graham <dgraham@oacsvcs.com>; John Moshy <john.moshy@biomedrealty.com>; Smith, Jeff A - (SEA) <JXSmith@tcco.com>; Walcott, James P - (SEA) <jpwalcott@tcco.com>; Troy, Ryan - (SEA) <RTroy@tcco.com>; Daniel Balbiani <dbalbiani@pesenv.com>; McDowell, Bryce M - (SEA) <bmcdowell@tcco.com>; Brad Rock <brock@oacsvcs.com>; Kim Vik <KVik@pesenv.com>; Ron D. Coringrato <RCoringrato@ecc.net>
Subject: RE: Former American Linen Supply Company - Contained-In Addendum (6/20/19)
Data reviewed and disposal approved.
Byung Maeng, PE
Hazardous Waste and Toxics Reduction Program
Northwest Regional Office
(425) 649-7253, bmae461@ecy.wa.gov

From: Brian O'Neal [<mailto:boneal@pesenv.com>]
Sent: Thursday, June 20, 2019 10:18 AM
To: Maeng, Byung (ECY) <BMAF461@ECY.WA.GOV>
Cc: Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Timm, Ronald W. (ECY) <rtim461@ECY.WA.GOV>; Drew Graham <dgraham@oacsvcs.com>; John Moshy <john.moshy@biomedrealty.com>; Smith, Jeff A - (SEA) <JXSmith@tcco.com>; Walcott, James P - (SEA) <jpwalcott@tcco.com>; Troy, Ryan - (SEA) <RTroy@tcco.com>; Daniel Balbiani <dbalbiani@pesenv.com>; McDowell, Bryce M - (SEA) <bmcdowell@tcco.com>; Brad Rock <brock@oacsvcs.com>; Kim Vik <KVik@pesenv.com>; Ron D. Coringrato <RCoringrato@ecc.net>
Subject: Former American Linen Supply Company - Contained-In Addendum (6/20/19)

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **10 tons** of soil that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	27.5	04-27-200-26	06/19/19	0.697	<0.216 U	<0.216 U	<0.270 U
Notes:							
1. U = analyte not detected above the reporting limit shown.							
2. J = analyte detected above the method detection limit but below the reporting limit.							
3. Lift elevation is the top of each treatment lift.							
4. Sample naming convention:							

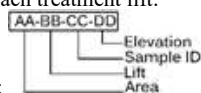
AA-BB-CC-DD

Elevation

Sample ID

Lift

Area



Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included soil from SMA-4 from elevation 27.5 to 25 ft that was confirmed by test pit and overburden samples (area shown on the attached Figure 7a from the CMMP). Pre-treatment concentrations are shown on CMMP Figure 7a and the post-treatment samples locations are shown on the "lift map" prepared by Turner Construction (both of these figures are attached for your reference). As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Brian O'Neal, P.E.

PES Environmental, Inc.

ph: 206-529-3980 x104

cell: 425-241-2627

From: [Maeng, Byung \(ECY\)](#)
To: [Brian O'Neal](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [Daniel Balbiani](#); [McDowell, Bryce M - \(SEA\)](#); [Brad Rock](#); [Kim Vik](#); [Ron D. Coringrato](#)
Subject: RE: Former American Linen Supply Company - Contained-In Addendum (6/20/19)
Date: Thursday, June 20, 2019 11:23:12 AM
Attachments: [image001.png](#)

Data reviewed and disposal approved.

Byung Maeng, PE
Hazardous Waste and Toxics Reduction Program
Northwest Regional Office
(425) 649-7253, bmae461@ecy.wa.gov

From: Brian O'Neal [<mailto:boneal@pesenv.com>]

Sent: Thursday, June 20, 2019 10:18 AM

To: Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>

Cc: Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Timm, Ronald W. (ECY) <rtim461@ECY.WA.GOV>; Drew Graham <dgraham@oacsvcs.com>; John Moshy <john.moshy@biomedrealty.com>; Smith, Jeff A - (SEA) <JXSmith@tcco.com>; Walcott, James P - (SEA) <jpwalcott@tcco.com>; Troy, Ryan - (SEA) <RTroy@tcco.com>; Daniel Balbiani <dbalbiani@pesenv.com>; McDowell, Bryce M - (SEA) <bmcdowell@tcco.com>; Brad Rock <brock@oacsvcs.com>; Kim Vik <KVik@pesenv.com>; Ron D. Coringrato <RCoringrato@ecc.net>

Subject: Former American Linen Supply Company - Contained-In Addendum (6/20/19)

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **10 tons** of soil that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	27.5	04-27-200-26	06/19/19	0.697	<0.216 U	<0.216 U	<0.270 U
Notes:							
1. U = analyte not detected above the reporting limit shown.							
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AA-BB-CC-DD Elevation Sample ID Lift Area							
4. Sample naming convention:							

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Please let me know if you have any questions and we request your review of this data at your earliest convenience.

Brian O'Neal, P.E.

PES Environmental, Inc.

ph: 206-529-3980 x104

cell: 425-241-2627

From: [Brian O'Neal](#)
To: [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](#)
Cc: [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [Daniel Balbiani](#); [McDowell, Bryce M - \(SEA\)](#); [Brad Rock](#); [Kim Vik](#); [Ron D. Coringrato](#)
Subject: Former American Linen Supply Company - Contained-In Addendum (6/20/19)
Date: Thursday, June 20, 2019 10:17:00 AM
Attachments: [Rpt_1906225_American_Linen_Final_v1.pdf](#)
[image001.png](#)
[CMMP Figure 4.pdf](#)
[Soil_Treatment_Lift_27ft.pdf](#)
[Figure 7a from CMMP \(SMA-4\).pdf](#)

Byung,

Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **10 tons** of soil that has been treated *in situ* using potassium permanganate are below the applicable contained-in criteria. The analytical results are summarized in the following table:

Soil Mgmt. Area	Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
				PCE	TCE	cDCE	VC
Contained-In Criteria				14	10	160	0.67
4	27.5	04-27-200-26	06/19/19	0.697	<0.216 U	<0.216 U	<0.270 U
Notes:							
1. U = analyte not detected above the reporting limit shown.							
2. J = analyte detected above the method detection limit but below the reporting limit.							
3. Lift elevation is the top of each treatment lift.							
AA-BB-CC-DD Elevation Sample ID Lift Area							
4. Sample naming convention:							

Soil from the identified Soil Management Area (SMA; refer to the attached Figure 4 from the CMMP for locations) has been treated consistent with CMMP and will be stockpiled separately from other contained-in soils pending your review of these analytical results. This treatment included soil from SMA-4 from elevation 27.5 to 25 ft that was confirmed by test pit and overburden samples (area shown on the attached Figure 7a from the CMMP). Pre-treatment concentrations are shown on CMMP Figure 7a and the post-treatment samples locations are shown on the "lift map" prepared by Turner Construction (both of these figures are attached for your reference). As shown above and in the attached laboratory reports, this testing data confirms that CVOC concentrations are below the contained-in criteria. If you concur, this soil will be disposed of as contained-in soil consistent with the requirements of your March 18, 2019 determination.

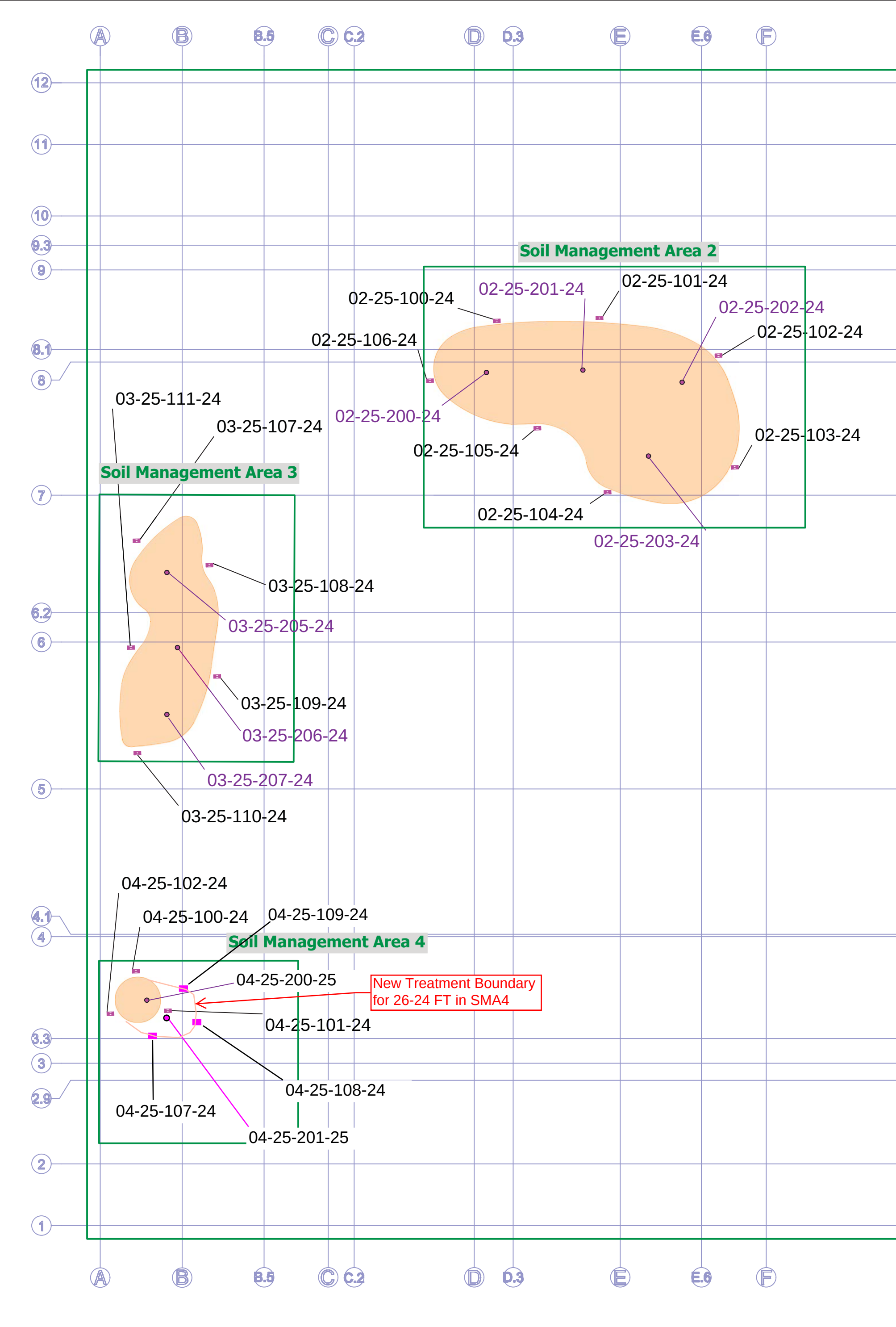
Please let me know if you have any questions and we request your review of this data at your earliest convenience.

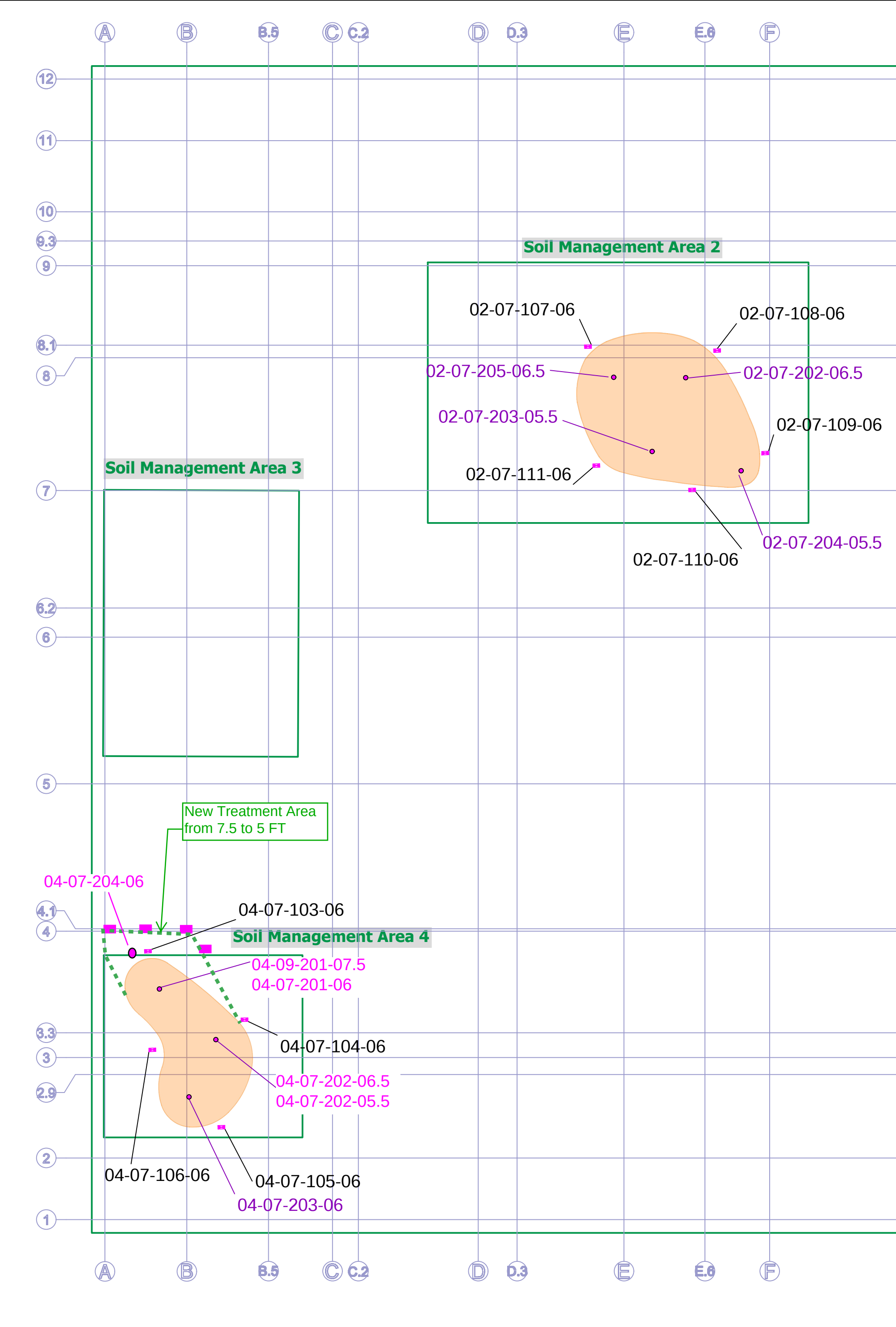
Brian O'Neal, P.E.

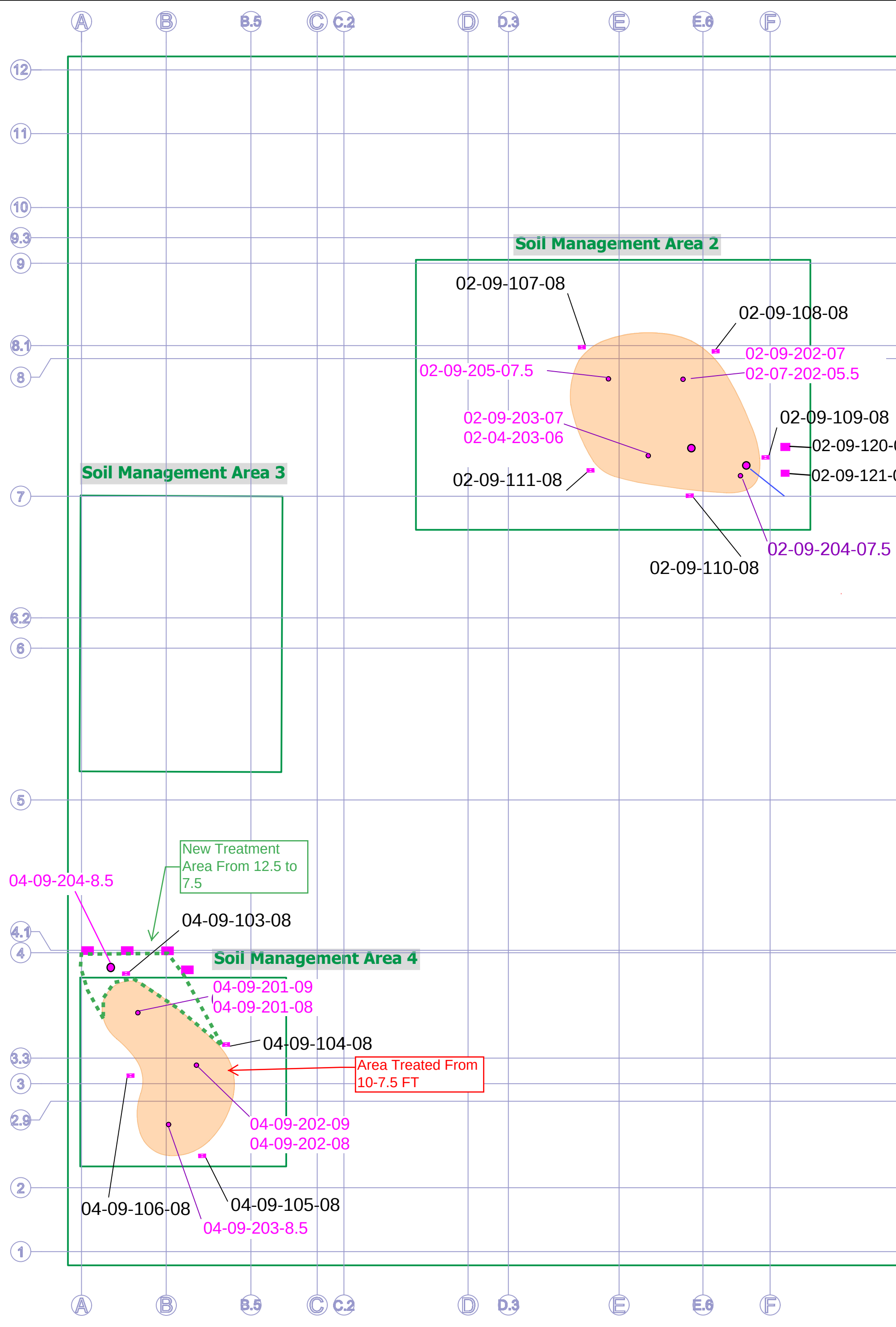
PES Environmental, Inc.

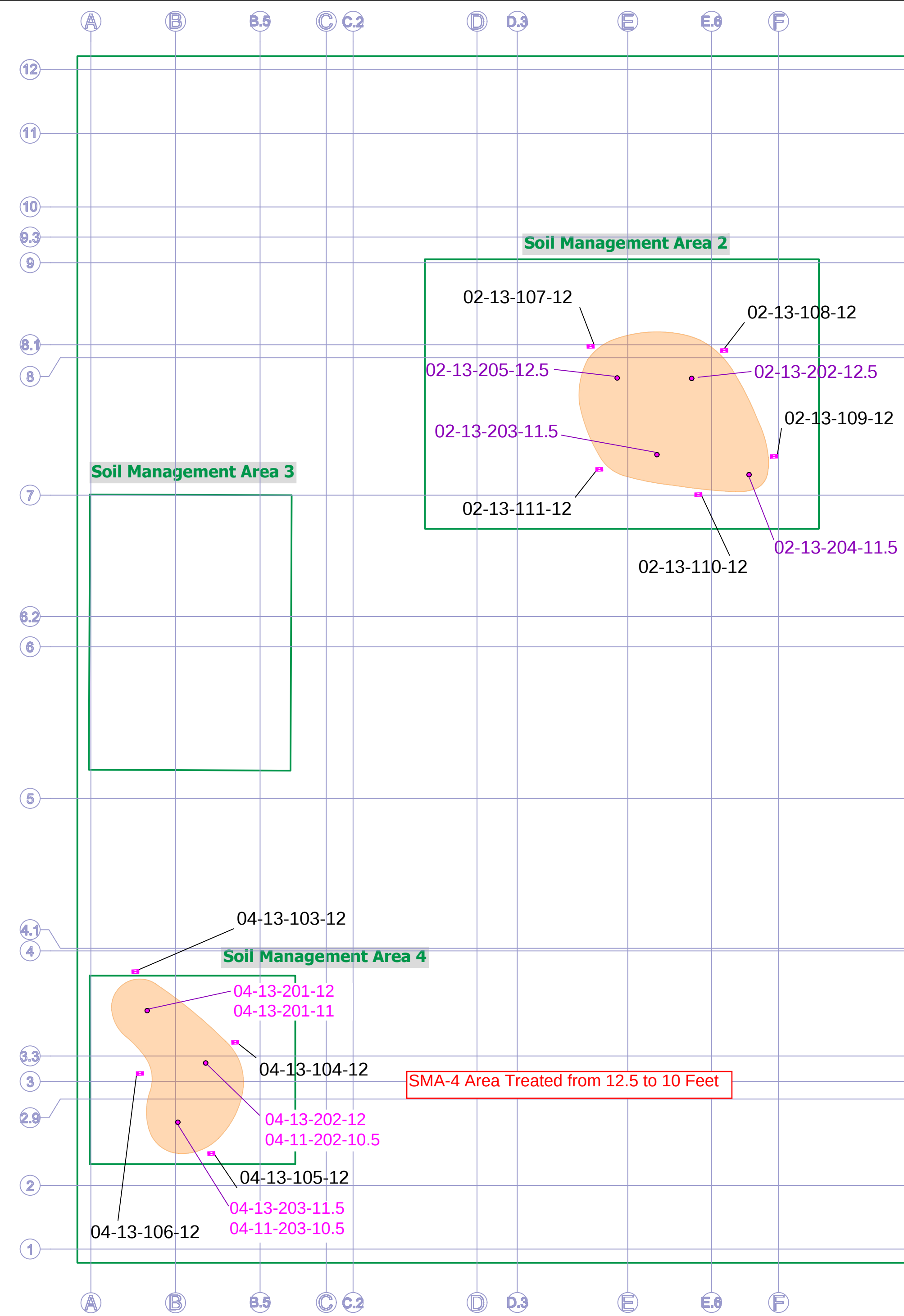
ph: 206-529-3980 x104

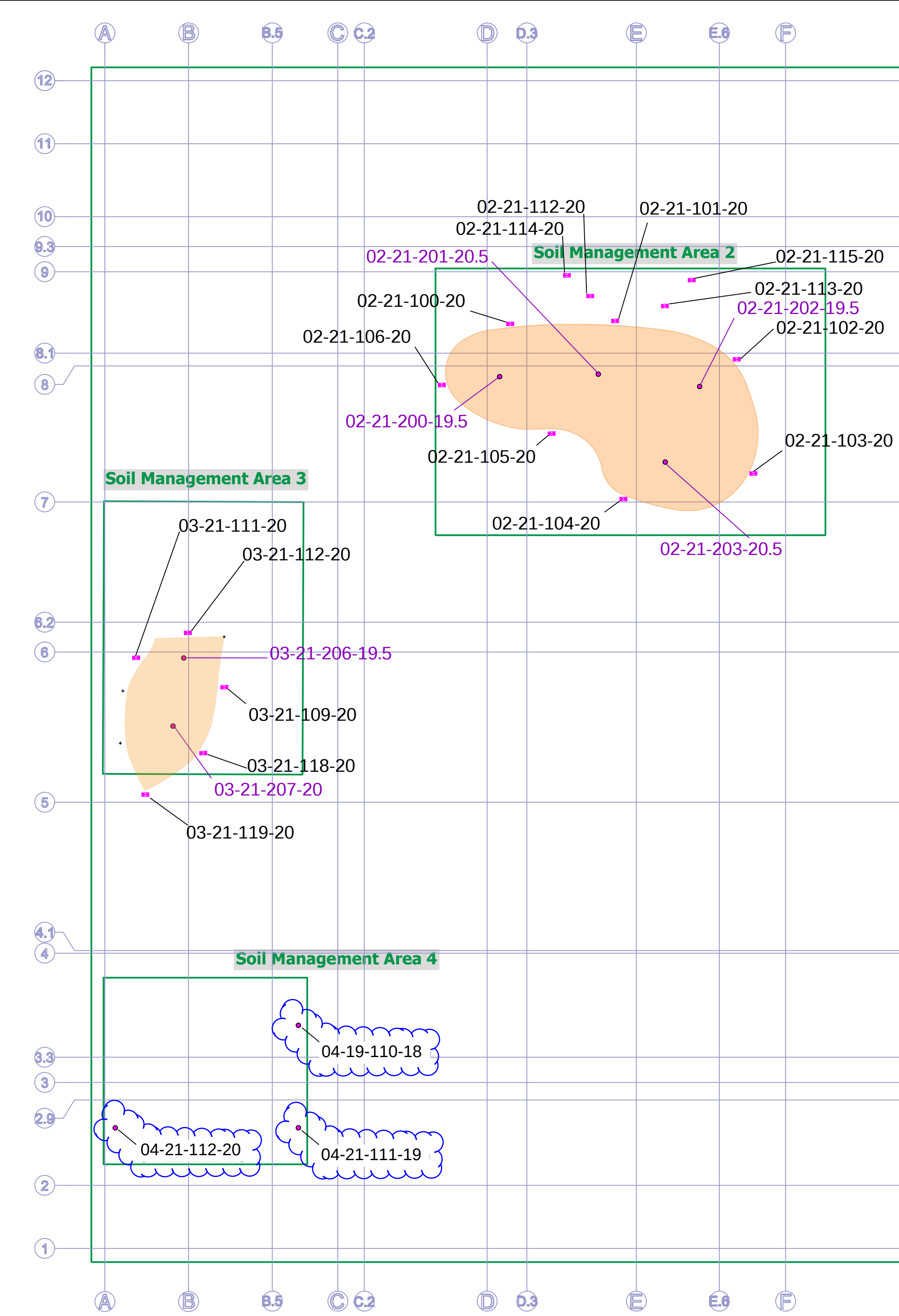
cell: 425-241-2627











700 DEXTER HOTSPOT LIFT DRAWING
Elevation 21'

Notes:

AA-BB-CC-DD

Elevation

Sample ID

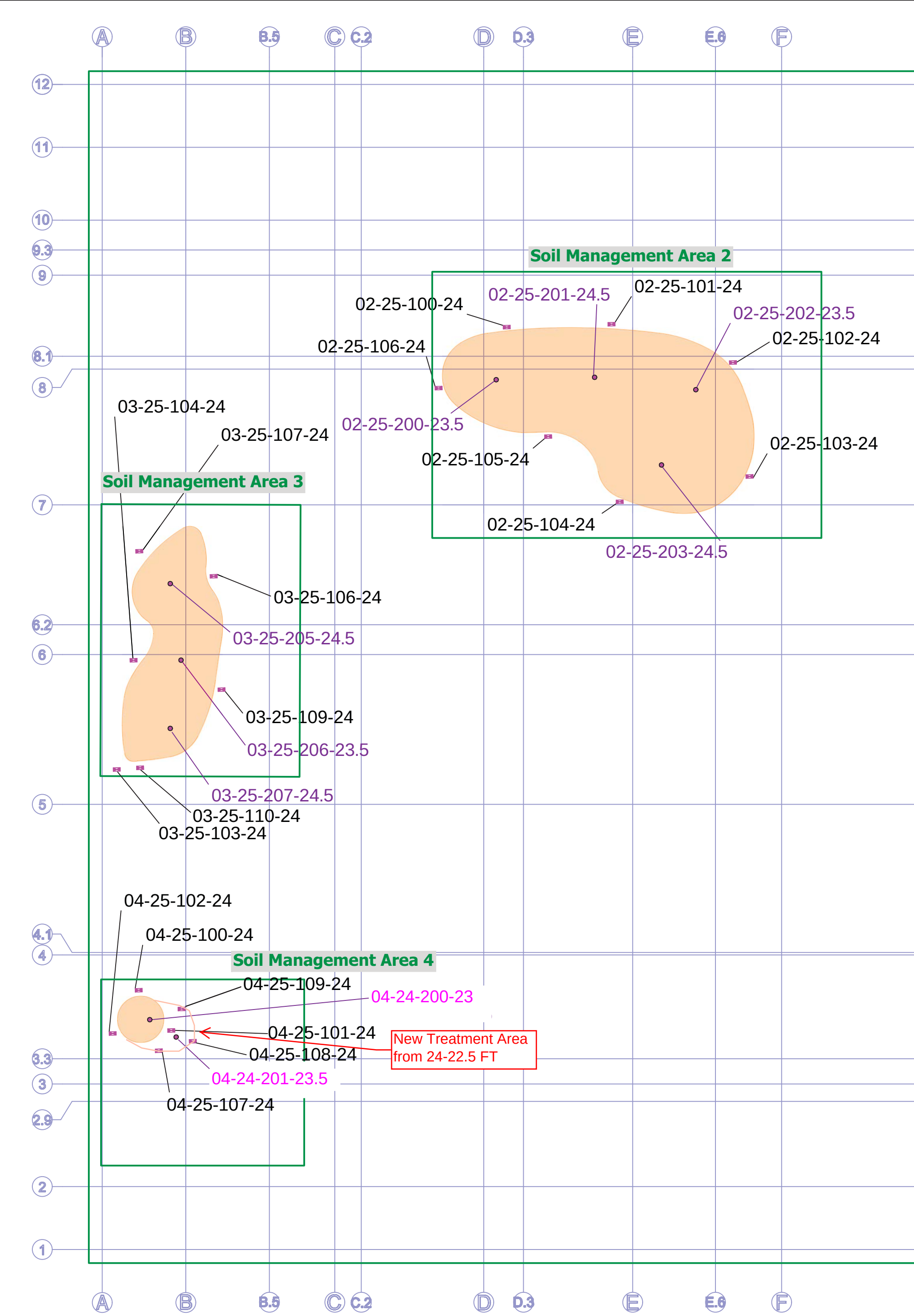
Lift

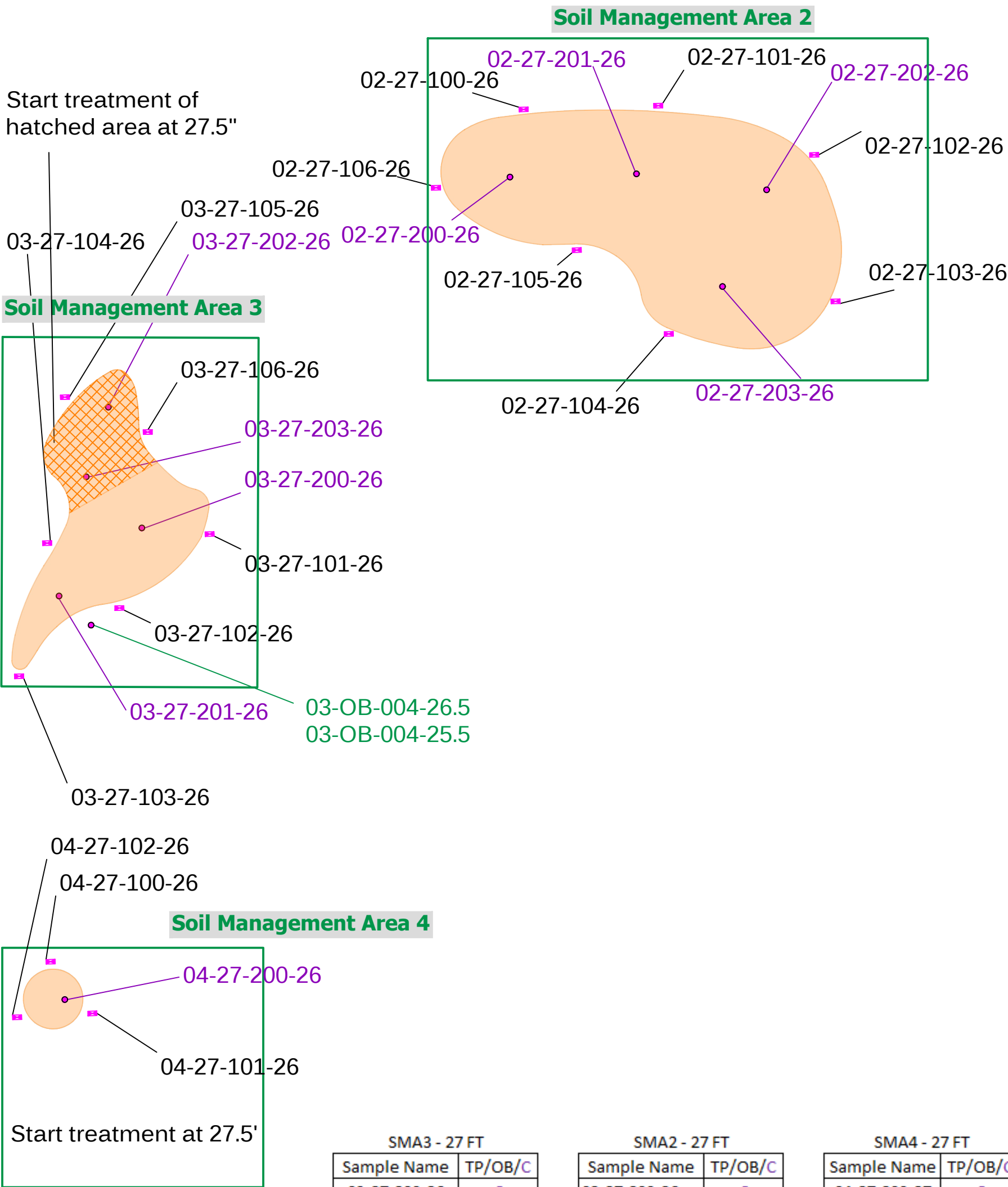
Area

Turner

VDC

Rev. 13 July 10, 2019 CS1.11

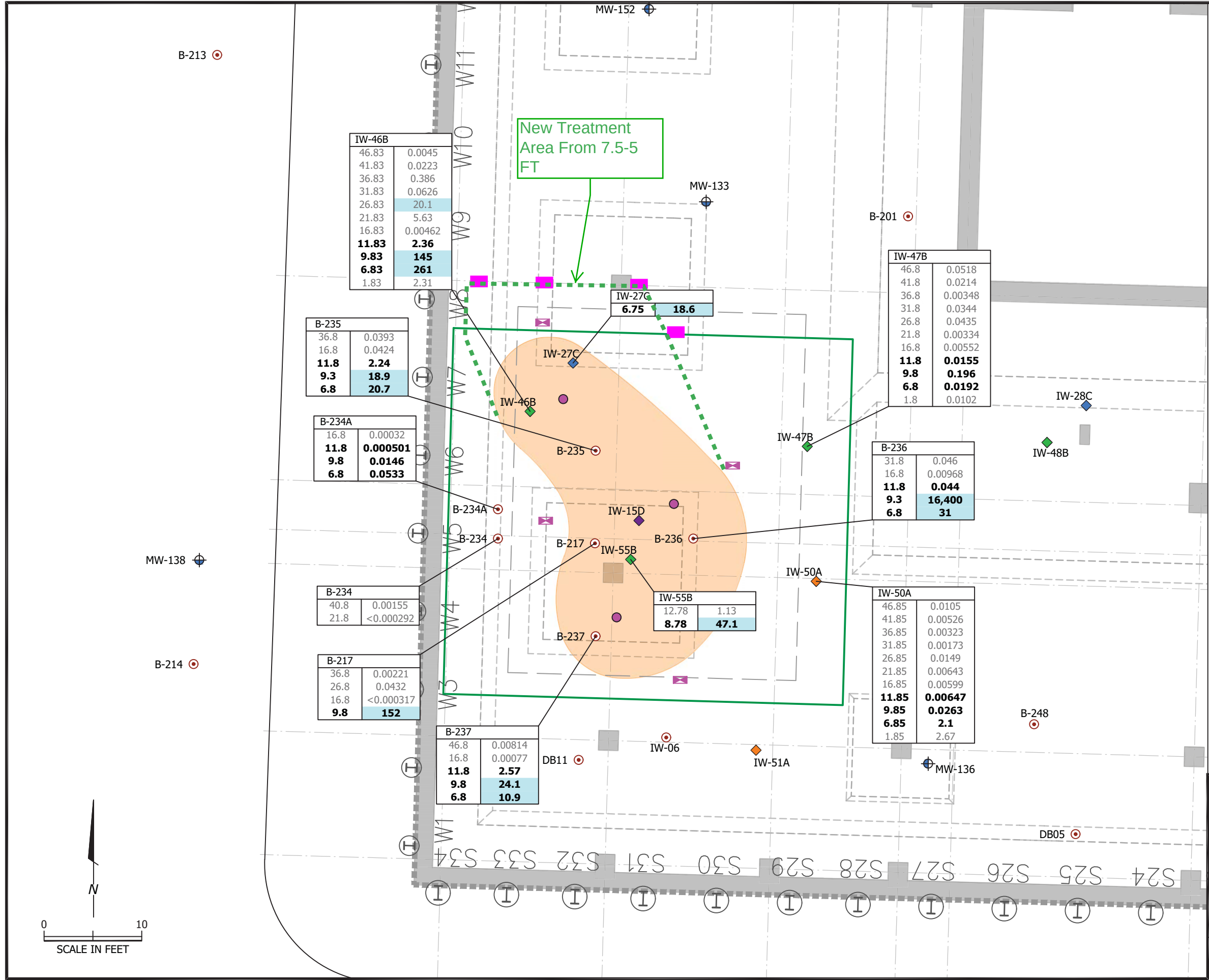




SMA3 - 27 FT	
Sample Name	TP/OB/C
03-27-200-26	C
03-27-201-26	C
03-27-202-26	C
03-27-203-26	C

SMA2 - 27 FT	
Sample Name	TP/OB/C
02-27-200-26	C
02-27-201-26	C
02-27-202-26	C
02-27-203-26	C

SMA4 - 27 FT	
Sample Name	TP/OB/C
04-27-200-27	C



Explanation

- MW101: Shallow Zone Monitoring Well
- MW107: Intermediate A Zone Monitoring Well
- W-MW-02: Intermediate B Zone Monitoring Well
- MW105: Deep Zone Monitoring Well
- N 231800, E 1268300: Coordinate Reference Point (NAD83, Washington State Plane North, US Feet)
- IW-8A: Treatment Zone A Injection Well
- IW-20B: Treatment Zone B Injection Well
- IW-6C: Treatment Zone C Injection Well
- IW-14D: Treatment Zone D Injection Well
- B-256: Soil Boring Location
- Preliminary Perimeter Test Pit Location
- Preliminary Overburden Soil Sampling Location

Notes:

- Soils outside of the shaded area contain PCE at concentrations below 14 mg/kg and will be managed as contained-in soil.
- Soils in shaded area have PCE concentrations above 14 mg/kg and will be treated in situ using chemical oxidation. Once post-treatment testing confirms PCE concentrations have been reduced to below 14 mg/kg, the soil will be managed as contained-in soil.

Elevation	PCE
36.8	0.00221
26.8	0.0432
16.8	<0.000317
9.8	152

Bolded PCE and Elevation values are within target elevation interval (12.5 to 6 ft)
Highlighted PCE Concentrations exceed 14 mg/kg
All values shown in milligrams per kilogram (mg/kg)
Elevations are shown in feet NAVD88
PCE = Tetrachloroethene

Structural Drawings: Sheet S30/P.3 "Level P3/Foundation Plan"
prepared by Magnussen Klemencic Associates

Table E-6-1
SMA-4 - Post-Treatment Compliance Soil Sample Results
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Treatment Lift Elevation	Sample ID	Sample Date	Concentration (mg/Kg)			
Contained-In Criteria			PCE	TCE	cDCE	VC
			14	10	160	0.67
27.5	04-27-200-26	06/19/19	0.697	<0.216 U	<0.216 U	<0.270 U
26	04-25-200-25	06/21/19	0.0905	<0.168 U	<0.168 U	<0.210 U
26	04-25-200-25	06/21/19	0.0824	<0.181 U	<0.181 U	<0.227 U
24	04-24-200-23	06/25/19	0.205	<0.172 U	<0.172 U	<0.215 U
24	04-24-201-23	06/25/19	0.198	<0.168 U	<0.168 U	<0.210 U
19	04-19-110-18 ¹	07/15/19	<0.242 U	<0.193 U	<0.193 U	<0.242 U
21	04-21-111-19 ¹	07/15/19	<0.231 U	<0.184 U	<0.184 U	<0.231 U
21	04-21-112-20 ¹	07/15/19	<0.281 U	<0.225 U	<0.225 U	<0.281 U
11	04-11-202-10.5	08/20/19	0.096	<0.192 U	<0.192 U	<0.240 U
11	04-11-203-10.5	08/20/19	0.0889	<0.182 U	<0.182 U	<0.227 U
13	04-13-201-11	08/20/19	0.182	<0.201 U	<0.201 U	<0.251 U
13	04-13-201-12	08/20/19	0.346	<0.181 U	<0.181 U	<0.226 U
13	04-13-202-12	08/20/19	0.243	<0.253 U	<0.253 U	<0.316 U
13	04-13-203-11.5	08/20/19	0.229	<0.194 U	0.0593	<0.242 U
9	04-09-201-08	08/27/19	1.79	<0.161 U	0.156	<0.201 U
9	04-09-201-09	08/27/19	1.28	<0.190 U	<0.190 U	<0.237 U
9	04-09-202-08	08/27/19	1.76	<0.196 U	0.153 U	<0.245 U
9	04-09-202-09	08/27/19	1.05	<0.204 U	0.102	<0.254 U
9	04-09-203-8.5	08/27/19	1.48	<0.322 U	<0.322 U	<0.402 U
9	04-09-204-8.5	08/27/19	0.93	<0.154 U	0.0854	<0.192 U
7	04-07-201-06	09/03/19	0.465	<0.197 U	<0.197 U	<0.246 U
7	04-07-202-05.5	09/03/19	0.482	<0.222 U	<0.222 U	<0.277 U
7	04-07-202-06.5	09/03/19	0.413	<0.162 U	<0.162 U	<0.203 U
7	04-07-203-06	09/03/19	0.511	<0.205 U	<0.205 U	<0.256 U
7	04-07-204-06	09/03/19	2.28	0.141	<0.172 U	<0.215 U
9	04-09-201-07.5	09/03/19	0.597	<0.148 U	<0.148 U	<0.184 U

Notes:
PCE = Tetrachloroethene
TCE = Trichloroethene
cDCE = Cis 1,2-Dichloroethene
VC = Vinyl Chloride
¹Sample collected to confirm saturated soil in Intermediate A Zone meets CID criteria.
U = analyte not detected above the reporting limit shown
J = analyte detected above the method detection limit but below the reporting limit
Lift elevation is the top of each treatment lift
Detected results shown in **bold**
Detections above the contained-in criteria are highlighted in gray
Sample naming convention:

AA-BB-CC-DD

— Elevation
— Sample ID
— Lift
— Area

Table E-6-2

SMA-4 Overburden and Bounding Soil Sample Results
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample ID	Sample Date	Sample Elevation	Concentration (mg/kg)							
			PCE		TCE		cDCE		VC	
Contained-In Criteria			14		10		160		0.67	
04-OB-000-29	06/14/19	29	0.499		0.225	U	0.225	U	0.281	U
01-OB-000-28	06/14/19	28	2.07		0.185	U	0.185	U	0.232	U
04-OB-100-29	06/14/19	29	1.46		0.200	U	0.200	U	0.250	U
04-OB-100-28	06/14/19	28	1.01		0.208	U	0.208	U	0.259	U
04-27-100-26	06/14/19	26	12.5		0.173	J	0.198	U	0.247	U
04-OB-101-29	06/14/19	29	0.271		0.177	U	0.177	U	0.222	U
04-OB-101-28	06/14/19	28	0.306		0.167	U	0.167	U	0.209	U
04-27-101-26	06/14/19	26	3.93		0.166	U	0.166	U	0.207	U
04-OB-102-29	06/14/19	29	0.255	U	0.204	U	0.204	U	0.255	U
04-OB-102-28	06/14/19	28	0.214	J	0.183	U	0.183	U	0.228	U
04-27-102-26	06/14/19	26	1.44		0.202	U	0.202	U	0.253	U
04-25-100-24	06/14/19	24	11.8		0.246		0.221	U	0.277	U
04-25-101-24 ¹	06/14/19	24	17.4		0.279		0.318		0.253	U
04-25-102-24	06/14/19	24	0.942		0.182	U	0.182	U	0.228	U
04-21-112-20	7/15/19	20	0.281	U	0.225	U	0.225	U	0.281	U
04-21-111-19	7/15/19	19	0.231	U	0.184	U	0.184	U	0.231	U
04-19-110-18	7/15/19	18	0.242	U	0.193	U	0.193	U	0.242	U
04-OB-103-14	8/13/19	14	1.94		0.192	U	0.192	U	0.241	U
04-OB-103-13	8/13/19	13	1.05		0.194	U	0.194	U	0.243	U
04-OB-104-14	8/13/19	14	0.265	U	0.212	U	0.212	U	0.265	U
04-OB-104-13	8/13/19	13	0.257	U	0.206	U	0.206	U	0.257	U
04-OB-105-13	8/13/19	13	0.273	U	0.218	U	0.218	U	0.273	U
04-OB-105-14	8/13/19	14	0.241	U	0.192	U	0.192	U	0.241	U
04-OB-106-14	8/13/19	14	0.271	U	0.217	U	0.217	U	0.271	U
04-OB-106-13	8/13/19	13	0.250	U	0.200	U	0.200	U	0.250	U
04-OB-001-14	8/13/19	14	0.252		0.188	U	0.418		0.234	U
04-OB-001-13	8/13/19	13	0.141	J	0.197	U	0.356		0.246	U
04-OB-002-14	8/13/19	14	0.140	J	0.185	U	0.152	J	0.230	U
04-OB-002-13	8/13/19	13	0.0959	J	0.201	U	0.11	J	0.251	U
04-OB-003-14	8/13/19	14	0.247	U	0.197	U	0.197	U	0.247	U
04-OB-003-13	8/13/19	13	0.221	U	0.177	U	0.177	U	0.221	U
04-13-104-12	8/13/19	12	0.229	U	0.183	U	0.183	U	0.229	U
04-13-103-12	8/13/19	12	1.19		0.184	U	0.184	U	0.230	U
04-13-105-12	8/13/19	12	0.336		0.186	U	0.176	J	0.233	U
04-13-106-12	8/13/19	12	0.226	U	0.181	U	0.181	U	0.226	U
04-11-103-10 ¹	8/20/19	10	20.0		0.111		0.412	J	0.125	U
04-09-103-08 ¹	8/20/19	8	17.3		0.702		0.209	U	0.261	U

Table E-6-2

SMA-4 Overburden and Bounding Soil Sample Results
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington

Sample ID	Sample Date	Sample Elevation	Concentration (mg/kg)			
			PCE	TCE	cDCE	VC
Contained-In Criteria			14	10	160	0.67
04-07-103-06	8/20/19	6	6.27	0.446	0.344	0.223 U
04-11-106-10	8/20/19	10	0.438	0.221 U	4.38	0.597
04-09-106-08	8/20/19	8	0.231 U	0.185 U	0.165 J	0.231 U
04-07-106-06	8/20/19	6	5.49	0.163 J	1.86	0.236 U
04-11-105-10	8/20/19	10	10.0	0.107 J	10.6	0.482
04-09-105-08	8/20/19	8	0.300	0.187 U	0.187 U	0.233 U
04-07-105-06	8/20/19	6	0.328	0.192 U	3.01	0.131 J
04-11-104-10	8/20/19	10	0.273	0.170 U	0.170 U	0.213 U
04-09-104-08	8/20/19	8	0.170 J	0.194 U	0.194 U	0.243 U
04-07-104-06	8/20/19	6	0.228 J	0.198 U	1.23	0.247 U
04-09-113-08	8/20/2019	8	62.3	0.432	0.102 U,J	0.242 U
04-09-114-08	8/20/2019	8	0.509	0.188 U	0.534	0.236 U
04-09-115-08	8/20/2019	8	64	0.61	1.55	0.243 U
04-11-113-10	8/20/2019	10	76.4	0.327	0.252 U	0.315 U
04-11-114-10	8/20/2019	10	0.329	0.0751 U,J	8.96	0.686
04-11-115-10	8/20/2019	10	9.93	0.0238 U,J	1.98	0.245 U
04-07-116-06	8/23/2019	6	0.235 U	0.188 U	0.188 U	0.235 U
04-09-116-08	8/23/2019	8	0.7	0.227 U	0.335	0.284 U
04-11-116-10	8/23/2019	10	0.282 U	0.226 U	0.226 U	0.282 U
04-07-113-06	8/26/2019	6	94.2	0.308	0.822	0.24 U
04-07-114-06	8/26/2019	6	11.4	0.173 U	0.741	0.216 U
04-07-117-06	8/26/2019	6	70.6	0.154 U,J	0.222 U	0.277 U
04-09-117-08	8/26/2019	8	17.6	0.594	0.203 U	0.253 U
04-11-117-10	8/26/2019	10	17.6	0.215 U	1.78	0.268 U
04-13-117-12	8/26/2019	2	4.1	0.202 U	0.202 U	0.252 U
04-07-115-06	8/26/2019	6	7.4	0.192 U,J	0.508	0.248 U

Notes:

VOCs analyzed by EPA Method 8260C

Detected results shown in bold.

Detected results above the screening level are highlighted in gray.

– = Not analyzed or results not available

¹Treatment area expanded to include sample location and new bounding samples collected

U = Analyte not detected at or above the reporting limit shown.

J = Analyte detected above the method detection limit, but below the method reporting limit. The result is an estimated value.

Samples IDs with "OB" indicate the sample was collected from the overburden layer per the CMMP

cDCE = cis-1,2-dichloroethene

PCE = perchloroethylene (tetrachloroethene)

TCE = trichloroethene

VC = vinyl chloride



Fremont
Analytical

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PES Environmental, Inc.
Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1906173

June 17, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 24 sample(s) on 6/14/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1906173

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906173-001	03-29-101-28	06/14/2019 10:10 AM	06/14/2019 1:02 PM
1906173-002	03-29-104-28	06/14/2019 8:25 AM	06/14/2019 1:02 PM
1906173-003	03-31-117-30	06/14/2019 8:42 AM	06/14/2019 1:02 PM
1906173-004	03-29-117-28	06/14/2019 8:45 AM	06/14/2019 1:02 PM
1906173-005	03-31-106-30	06/14/2019 9:32 AM	06/14/2019 1:02 PM
1906173-006	03-29-106-28	06/14/2019 9:42 AM	06/14/2019 1:02 PM
1906173-007	03-31-105-30	06/14/2019 9:11 AM	06/14/2019 1:02 PM
1906173-008	03-29-105-28	06/14/2019 9:15 AM	06/14/2019 1:02 PM
1906173-009	03-0B-002-30	06/14/2019 9:26 AM	06/14/2019 1:02 PM
1906173-010	03-0B-002-28	06/14/2019 9:35 AM	06/14/2019 1:02 PM
1906173-011	B-946-28	06/14/2019 11:30 AM	06/14/2019 1:02 PM
1906173-012	04-0B-000-29	06/14/2019 11:40 AM	06/14/2019 1:02 PM
1906173-013	04-0B-000-28	06/14/2019 11:42 AM	06/14/2019 1:02 PM
1906173-014	04-0B-100-29	06/14/2019 11:05 AM	06/14/2019 1:02 PM
1906173-015	04-0B-100-28	06/14/2019 11:08 AM	06/14/2019 1:02 PM
1906173-016	04-27-100-26	06/14/2019 11:15 AM	06/14/2019 1:02 PM
1906173-017	04-0B-101-29	06/14/2019 12:00 PM	06/14/2019 1:02 PM
1906173-018	04-0B-101-28	06/14/2019 12:05 PM	06/14/2019 1:02 PM
1906173-019	04-27-101-26	06/14/2019 12:15 PM	06/14/2019 1:02 PM
1906173-020	04-0B-102-29	06/14/2019 11:29 AM	06/14/2019 1:02 PM
1906173-021	04-0B-102-28	06/14/2019 11:30 AM	06/14/2019 1:02 PM
1906173-022	04-27-102-26	06/14/2019 11:50 AM	06/14/2019 1:02 PM
1906173-023	B-947-15	06/14/2019 12:40 PM	06/14/2019 1:02 PM
1906173-024	TB-061419	06/05/2019 4:06 PM	06/14/2019 1:02 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-001

Client Sample ID: 03-29-101-28

Collection Date: 6/14/2019 10:10:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24924

Analyst: KT

Vinyl chloride	0.179	0.244	DJ	mg/Kg-dry	10	6/14/2019 9:47:59 PM
cis-1,2-Dichloroethene	0.722	0.195	D	mg/Kg-dry	10	6/14/2019 9:47:59 PM
Trichloroethene (TCE)	ND	0.195	D	mg/Kg-dry	10	6/14/2019 9:47:59 PM
Tetrachloroethene (PCE)	0.104	0.244	DJ	mg/Kg-dry	10	6/14/2019 9:47:59 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/14/2019 9:47:59 PM
Surr: Toluene-d8	114	64.5 - 151	D	%Rec	10	6/14/2019 9:47:59 PM
Surr: 1-Bromo-4-fluorobenzene	91.6	54.8 - 168	D	%Rec	10	6/14/2019 9:47:59 PM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	15.4	0.500		wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-002

Client Sample ID: 03-29-104-28

Collection Date: 6/14/2019 8:25:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24924

Analyst: KT

Vinyl chloride	ND	0.239	D	mg/Kg-dry	10	6/14/2019 10:18:41 PM
cis-1,2-Dichloroethene	ND	0.191	D	mg/Kg-dry	10	6/14/2019 10:18:41 PM
Trichloroethene (TCE)	ND	0.191	D	mg/Kg-dry	10	6/14/2019 10:18:41 PM
Tetrachloroethene (PCE)	2.04	0.239	D	mg/Kg-dry	10	6/14/2019 10:18:41 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/14/2019 10:18:41 PM
Surr: Toluene-d8	98.6	64.5 - 151	D	%Rec	10	6/14/2019 10:18:41 PM
Surr: 1-Bromo-4-fluorobenzene	92.4	54.8 - 168	D	%Rec	10	6/14/2019 10:18:41 PM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	14.9	0.500		wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-003

Client Sample ID: 03-31-117-30

Collection Date: 6/14/2019 8:42:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24924

Analyst: KT

Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	6/14/2019 10:49:23 PM
cis-1,2-Dichloroethene	ND	0.188	D	mg/Kg-dry	10	6/14/2019 10:49:23 PM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	6/14/2019 10:49:23 PM
Tetrachloroethene (PCE)	ND	0.234	D	mg/Kg-dry	10	6/14/2019 10:49:23 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/14/2019 10:49:23 PM
Surr: Toluene-d8	93.1	64.5 - 151	D	%Rec	10	6/14/2019 10:49:23 PM
Surr: 1-Bromo-4-fluorobenzene	91.6	54.8 - 168	D	%Rec	10	6/14/2019 10:49:23 PM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	11.2	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-004

Client Sample ID: 03-29-117-28

Collection Date: 6/14/2019 8:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24924

Analyst: KT

Vinyl chloride	ND	0.228	D	mg/Kg-dry	10	6/14/2019 11:20:13 PM
cis-1,2-Dichloroethene	ND	0.183	D	mg/Kg-dry	10	6/14/2019 11:20:13 PM
Trichloroethene (TCE)	ND	0.183	D	mg/Kg-dry	10	6/14/2019 11:20:13 PM
Tetrachloroethene (PCE)	0.430	0.228	D	mg/Kg-dry	10	6/14/2019 11:20:13 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/14/2019 11:20:13 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/14/2019 11:20:13 PM
Surr: 1-Bromo-4-fluorobenzene	91.4	54.8 - 168	D	%Rec	10	6/14/2019 11:20:13 PM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	12.3	0.500	wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-005

Client Sample ID: 03-31-106-30

Collection Date: 6/14/2019 9:32:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24924

Analyst: KT

Vinyl chloride	ND	0.218	D	mg/Kg-dry	10	6/14/2019 11:51:04 PM
cis-1,2-Dichloroethene	ND	0.175	D	mg/Kg-dry	10	6/14/2019 11:51:04 PM
Trichloroethene (TCE)	ND	0.175	D	mg/Kg-dry	10	6/14/2019 11:51:04 PM
Tetrachloroethene (PCE)	0.406	0.218	D	mg/Kg-dry	10	6/14/2019 11:51:04 PM
Surr: Dibromofluoromethane	98.8	56.5 - 129	D	%Rec	10	6/14/2019 11:51:04 PM
Surr: Toluene-d8	95.7	64.5 - 151	D	%Rec	10	6/14/2019 11:51:04 PM
Surr: 1-Bromo-4-fluorobenzene	91.4	54.8 - 168	D	%Rec	10	6/14/2019 11:51:04 PM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	11.5	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-006

Client Sample ID: 03-29-106-28

Collection Date: 6/14/2019 9:42:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24924

Analyst: KT

Vinyl chloride	ND	0.237	D	mg/Kg-dry	10	6/15/2019 12:21:55 AM
cis-1,2-Dichloroethene	0.0972	0.190	DJ	mg/Kg-dry	10	6/15/2019 12:21:55 AM
Trichloroethene (TCE)	0.254	0.190	D	mg/Kg-dry	10	6/15/2019 12:21:55 AM
Tetrachloroethene (PCE)	2.16	0.237	D	mg/Kg-dry	10	6/15/2019 12:21:55 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/15/2019 12:21:55 AM
Surr: Toluene-d8	92.5	64.5 - 151	D	%Rec	10	6/15/2019 12:21:55 AM
Surr: 1-Bromo-4-fluorobenzene	91.0	54.8 - 168	D	%Rec	10	6/15/2019 12:21:55 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	13.4	0.500	wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-007

Client Sample ID: 03-31-105-30

Collection Date: 6/14/2019 9:11:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24924

Analyst: KT

Vinyl chloride	ND	0.240	D	mg/Kg-dry	10	6/15/2019 12:52:43 AM
cis-1,2-Dichloroethene	ND	0.192	D	mg/Kg-dry	10	6/15/2019 12:52:43 AM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	6/15/2019 12:52:43 AM
Tetrachloroethene (PCE)	ND	0.240	D	mg/Kg-dry	10	6/15/2019 12:52:43 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/15/2019 12:52:43 AM
Surr: Toluene-d8	71.2	64.5 - 151	D	%Rec	10	6/15/2019 12:52:43 AM
Surr: 1-Bromo-4-fluorobenzene	90.6	54.8 - 168	D	%Rec	10	6/15/2019 12:52:43 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	12.6	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-008

Client Sample ID: 03-29-105-28

Collection Date: 6/14/2019 9:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24924

Analyst: KT

Vinyl chloride	ND	0.244	D	mg/Kg-dry	10	6/15/2019 1:23:26 AM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	6/15/2019 1:23:26 AM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	6/15/2019 1:23:26 AM
Tetrachloroethene (PCE)	ND	0.244	D	mg/Kg-dry	10	6/15/2019 1:23:26 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/15/2019 1:23:26 AM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	6/15/2019 1:23:26 AM
Surr: 1-Bromo-4-fluorobenzene	91.7	54.8 - 168	D	%Rec	10	6/15/2019 1:23:26 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	11.0	0.500	wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-009

Client Sample ID: 03-0B-002-30

Collection Date: 6/14/2019 9:26:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.250	D	mg/Kg-dry	10	6/15/2019 1:54:11 AM
cis-1,2-Dichloroethene	ND	0.200	D	mg/Kg-dry	10	6/15/2019 1:54:11 AM
Trichloroethene (TCE)	ND	0.200	D	mg/Kg-dry	10	6/15/2019 1:54:11 AM
Tetrachloroethene (PCE)	1.06	0.250	D	mg/Kg-dry	10	6/15/2019 1:54:11 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/15/2019 1:54:11 AM
Surr: Toluene-d8	110	64.5 - 151	D	%Rec	10	6/15/2019 1:54:11 AM
Surr: 1-Bromo-4-fluorobenzene	75.3	54.8 - 168	D	%Rec	10	6/15/2019 1:54:11 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	12.9	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-010

Client Sample ID: 03-0B-002-28

Collection Date: 6/14/2019 9:35:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.218	D	mg/Kg-dry	10	6/15/2019 2:25:04 AM
cis-1,2-Dichloroethene	ND	0.174	D	mg/Kg-dry	10	6/15/2019 2:25:04 AM
Trichloroethene (TCE)	ND	0.174	D	mg/Kg-dry	10	6/15/2019 2:25:04 AM
Tetrachloroethene (PCE)	5.01	0.218	D	mg/Kg-dry	10	6/15/2019 2:25:04 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/15/2019 2:25:04 AM
Surr: Toluene-d8	82.5	64.5 - 151	D	%Rec	10	6/15/2019 2:25:04 AM
Surr: 1-Bromo-4-fluorobenzene	91.0	54.8 - 168	D	%Rec	10	6/15/2019 2:25:04 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	13.4	0.500	wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-011

Client Sample ID: B-946-28

Collection Date: 6/14/2019 11:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.236	D	mg/Kg-dry	10	6/15/2019 3:26:32 AM
cis-1,2-Dichloroethene	ND	0.189	D	mg/Kg-dry	10	6/15/2019 3:26:32 AM
Trichloroethene (TCE)	ND	0.189	D	mg/Kg-dry	10	6/15/2019 3:26:32 AM
Tetrachloroethene (PCE)	1.40	0.236	D	mg/Kg-dry	10	6/15/2019 3:26:32 AM
Surr: Dibromofluoromethane	99.5	56.5 - 129	D	%Rec	10	6/15/2019 3:26:32 AM
Surr: Toluene-d8	95.0	64.5 - 151	D	%Rec	10	6/15/2019 3:26:32 AM
Surr: 1-Bromo-4-fluorobenzene	90.2	54.8 - 168	D	%Rec	10	6/15/2019 3:26:32 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	14.5	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-012

Client Sample ID: 04-0B-000-29

Collection Date: 6/14/2019 11:40:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.281	D	mg/Kg-dry	10	6/15/2019 3:57:29 AM
cis-1,2-Dichloroethene	ND	0.225	D	mg/Kg-dry	10	6/15/2019 3:57:29 AM
Trichloroethene (TCE)	ND	0.225	D	mg/Kg-dry	10	6/15/2019 3:57:29 AM
Tetrachloroethene (PCE)	0.499	0.281	D	mg/Kg-dry	10	6/15/2019 3:57:29 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/15/2019 3:57:29 AM
Surr: Toluene-d8	85.9	64.5 - 151	D	%Rec	10	6/15/2019 3:57:29 AM
Surr: 1-Bromo-4-fluorobenzene	89.1	54.8 - 168	D	%Rec	10	6/15/2019 3:57:29 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	6.86	0.500	wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-013

Client Sample ID: 04-0B-000-28

Collection Date: 6/14/2019 11:42:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.232	D	mg/Kg-dry	10	6/15/2019 4:28:25 AM
cis-1,2-Dichloroethene	ND	0.185	D	mg/Kg-dry	10	6/15/2019 4:28:25 AM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	6/15/2019 4:28:25 AM
Tetrachloroethene (PCE)	2.07	0.232	D	mg/Kg-dry	10	6/15/2019 4:28:25 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/15/2019 4:28:25 AM
Surr: Toluene-d8	113	64.5 - 151	D	%Rec	10	6/15/2019 4:28:25 AM
Surr: 1-Bromo-4-fluorobenzene	89.5	54.8 - 168	D	%Rec	10	6/15/2019 4:28:25 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	6.88	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-014

Client Sample ID: 04-0B-100-29

Collection Date: 6/14/2019 11:05:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.250	D	mg/Kg-dry	10	6/15/2019 4:59:13 AM
cis-1,2-Dichloroethene	ND	0.200	D	mg/Kg-dry	10	6/15/2019 4:59:13 AM
Trichloroethene (TCE)	ND	0.200	D	mg/Kg-dry	10	6/15/2019 4:59:13 AM
Tetrachloroethene (PCE)	1.46	0.250	D	mg/Kg-dry	10	6/15/2019 4:59:13 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/15/2019 4:59:13 AM
Surr: Toluene-d8	106	64.5 - 151	D	%Rec	10	6/15/2019 4:59:13 AM
Surr: 1-Bromo-4-fluorobenzene	89.3	54.8 - 168	D	%Rec	10	6/15/2019 4:59:13 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	6.19	0.500	wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-015

Client Sample ID: 04-0B-100-28

Collection Date: 6/14/2019 11:08:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.259	D	mg/Kg-dry	10	6/15/2019 5:30:08 AM
cis-1,2-Dichloroethene	ND	0.208	D	mg/Kg-dry	10	6/15/2019 5:30:08 AM
Trichloroethene (TCE)	ND	0.208	D	mg/Kg-dry	10	6/15/2019 5:30:08 AM
Tetrachloroethene (PCE)	1.01	0.259	D	mg/Kg-dry	10	6/15/2019 5:30:08 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/15/2019 5:30:08 AM
Surr: Toluene-d8	115	64.5 - 151	D	%Rec	10	6/15/2019 5:30:08 AM
Surr: 1-Bromo-4-fluorobenzene	90.3	54.8 - 168	D	%Rec	10	6/15/2019 5:30:08 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	8.65	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-016

Client Sample ID: 04-27-100-26

Collection Date: 6/14/2019 11:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.247	D	mg/Kg-dry	10	6/15/2019 7:02:43 AM
cis-1,2-Dichloroethene	ND	0.198	D	mg/Kg-dry	10	6/15/2019 7:02:43 AM
Trichloroethene (TCE)	0.173	0.198	DJ	mg/Kg-dry	10	6/15/2019 7:02:43 AM
Tetrachloroethene (PCE)	12.5	0.247	D	mg/Kg-dry	10	6/15/2019 7:02:43 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/15/2019 7:02:43 AM
Surr: Toluene-d8	108	64.5 - 151	D	%Rec	10	6/15/2019 7:02:43 AM
Surr: 1-Bromo-4-fluorobenzene	91.6	54.8 - 168	D	%Rec	10	6/15/2019 7:02:43 AM

Sample Moisture (Percent Moisture)

Batch ID: R52090 Analyst: PA

Percent Moisture	10.9	0.500	wt%	1	6/14/2019 2:48:05 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-017

Client Sample ID: 04-0B-101-29

Collection Date: 6/14/2019 12:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.222	D	mg/Kg-dry	10	6/15/2019 7:33:26 AM
cis-1,2-Dichloroethene	ND	0.177	D	mg/Kg-dry	10	6/15/2019 7:33:26 AM
Trichloroethene (TCE)	ND	0.177	D	mg/Kg-dry	10	6/15/2019 7:33:26 AM
Tetrachloroethene (PCE)	0.271	0.222	D	mg/Kg-dry	10	6/15/2019 7:33:26 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/15/2019 7:33:26 AM
Surr: Toluene-d8	107	64.5 - 151	D	%Rec	10	6/15/2019 7:33:26 AM
Surr: 1-Bromo-4-fluorobenzene	79.1	54.8 - 168	D	%Rec	10	6/15/2019 7:33:26 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	12.7	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-018

Client Sample ID: 04-0B-101-28

Collection Date: 6/14/2019 12:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.209	D	mg/Kg-dry	10	6/15/2019 8:04:12 AM
cis-1,2-Dichloroethene	ND	0.167	D	mg/Kg-dry	10	6/15/2019 8:04:12 AM
Trichloroethene (TCE)	ND	0.167	D	mg/Kg-dry	10	6/15/2019 8:04:12 AM
Tetrachloroethene (PCE)	0.306	0.209	D	mg/Kg-dry	10	6/15/2019 8:04:12 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/15/2019 8:04:12 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/15/2019 8:04:12 AM
Surr: 1-Bromo-4-fluorobenzene	88.2	54.8 - 168	D	%Rec	10	6/15/2019 8:04:12 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	9.17	0.500	wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-019

Client Sample ID: 04-27-101-26

Collection Date: 6/14/2019 12:15:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.207	D	mg/Kg-dry	10	6/15/2019 8:35:11 AM
cis-1,2-Dichloroethene	ND	0.166	D	mg/Kg-dry	10	6/15/2019 8:35:11 AM
Trichloroethene (TCE)	ND	0.166	D	mg/Kg-dry	10	6/15/2019 8:35:11 AM
Tetrachloroethene (PCE)	3.93	0.207	D	mg/Kg-dry	10	6/15/2019 8:35:11 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/15/2019 8:35:11 AM
Surr: Toluene-d8	106	64.5 - 151	D	%Rec	10	6/15/2019 8:35:11 AM
Surr: 1-Bromo-4-fluorobenzene	89.9	54.8 - 168	D	%Rec	10	6/15/2019 8:35:11 AM

Sample Moisture (Percent Moisture)

Batch ID: R52090 Analyst: PA

Percent Moisture	10.5	0.500	wt%	1	6/14/2019 2:48:05 PM
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Lab ID: 1906173-020

Client Sample ID: 04-0B-102-29

Collection Date: 6/14/2019 11:29:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24924		Analyst: KT
Vinyl chloride	ND	0.255	D	mg/Kg-dry	10	6/15/2019 9:05:55 AM
cis-1,2-Dichloroethene	ND	0.204	D	mg/Kg-dry	10	6/15/2019 9:05:55 AM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	6/15/2019 9:05:55 AM
Tetrachloroethene (PCE)	ND	0.255	D	mg/Kg-dry	10	6/15/2019 9:05:55 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/15/2019 9:05:55 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/15/2019 9:05:55 AM
Surr: 1-Bromo-4-fluorobenzene	90.5	54.8 - 168	D	%Rec	10	6/15/2019 9:05:55 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	6.56	0.500	wt%	1	6/14/2019 2:26:01 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-021

Client Sample ID: 04-0B-102-28

Collection Date: 6/14/2019 11:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24925

Analyst: KT

Vinyl chloride	ND	0.228	D	mg/Kg-dry	10	6/15/2019 1:15:54 AM
cis-1,2-Dichloroethene	ND	0.183	D	mg/Kg-dry	10	6/15/2019 1:15:54 AM
Trichloroethene (TCE)	ND	0.183	D	mg/Kg-dry	10	6/15/2019 1:15:54 AM
Tetrachloroethene (PCE)	0.214	0.228	DJ	mg/Kg-dry	10	6/15/2019 1:15:54 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/15/2019 1:15:54 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/15/2019 1:15:54 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	6/15/2019 1:15:54 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089

Analyst: PA

Percent Moisture	7.12	0.500		wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-022

Client Sample ID: 04-27-102-26

Collection Date: 6/14/2019 11:50:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24925

Analyst: KT

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	6/15/2019 1:46:02 AM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	6/15/2019 1:46:02 AM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	6/15/2019 1:46:02 AM
Tetrachloroethene (PCE)	1.44	0.253	D	mg/Kg-dry	10	6/15/2019 1:46:02 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/15/2019 1:46:02 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/15/2019 1:46:02 AM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	6/15/2019 1:46:02 AM

Sample Moisture (Percent Moisture)

Batch ID: R52090

Analyst: PA

Percent Moisture	10.9	0.500		wt%	1	6/14/2019 2:48:05 PM
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Analytical Report

Work Order: 1906173

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906173-023

Client Sample ID: B-947-15

Collection Date: 6/14/2019 12:40:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24925		Analyst: KT
Vinyl chloride	ND	0.238	D	mg/Kg-dry	10	6/15/2019 2:16:11 AM
cis-1,2-Dichloroethene	ND	0.191	D	mg/Kg-dry	10	6/15/2019 2:16:11 AM
Trichloroethene (TCE)	ND	0.191	D	mg/Kg-dry	10	6/15/2019 2:16:11 AM
Tetrachloroethene (PCE)	ND	0.238	D	mg/Kg-dry	10	6/15/2019 2:16:11 AM
Surr: Dibromofluoromethane	98.4	56.5 - 129	D	%Rec	10	6/15/2019 2:16:11 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/15/2019 2:16:11 AM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/15/2019 2:16:11 AM

Sample Moisture (Percent Moisture)

Batch ID: R52089 Analyst: PA

Percent Moisture	6.64	0.500	wt%	1	6/14/2019 2:26:01 PM
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Lab ID: 1906173-024

Client Sample ID: TB-061419

Collection Date: 6/5/2019 4:06:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24925		Analyst: KT
Vinyl chloride	ND	0.0250		mg/Kg	1	6/15/2019 12:45:46 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	6/15/2019 12:45:46 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	6/15/2019 12:45:46 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	6/15/2019 12:45:46 AM
Surr: Dibromofluoromethane	99.3	56.5 - 129		%Rec	1	6/15/2019 12:45:46 AM
Surr: Toluene-d8	102	64.5 - 151		%Rec	1	6/15/2019 12:45:46 AM
Surr: 1-Bromo-4-fluorobenzene	97.1	54.8 - 168		%Rec	1	6/15/2019 12:45:46 AM

Work Order: 1906173
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-24924	SampType: LCS	Units: mg/Kg				Prep Date: 6/14/2019			RunNo: 52100		
Client ID: LCSS	Batch ID: 24924	Analysis Date: 6/14/2019							SeqNo: 1028438		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.862	0.0250	1.000	0	86.2	43.4	151				
cis-1,2-Dichloroethene	0.967	0.0200	1.000	0	96.7	71.3	135				
Trichloroethene (TCE)	1.02	0.0200	1.000	0	102	65.5	137				
Tetrachloroethene (PCE)	0.924	0.0250	1.000	0	92.4	52.7	150				
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.09		1.250		87.5	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		103	54.8	168				

Sample ID: LCSD-24924	SampType: LCSD	Units: mg/Kg				Prep Date: 6/14/2019			RunNo: 52100		
Client ID: LCSS02	Batch ID: 24924	Analysis Date: 6/14/2019							SeqNo: 1028439		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.917	0.0250	1.000	0	91.7	43.4	151	0.8620	6.18	20	
cis-1,2-Dichloroethene	0.949	0.0200	1.000	0	94.9	71.6	123	0.9675	1.89	20	
Trichloroethene (TCE)	1.03	0.0200	1.000	0	103	65.5	137	1.020	0.640	20	
Tetrachloroethene (PCE)	1.19	0.0250	1.000	0	119	52.7	150	0.9243	24.9	20	R
Surr: Dibromofluoromethane	1.24		1.250		99.5	56.5	129		0		
Surr: Toluene-d8	1.62		1.250		129	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.17		1.250		93.4	54.8	168		0		

NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID: MB-24924	SampType: MBLK	Units: mg/Kg			Prep Date: 6/14/2019			RunNo: 52100			
Client ID: MBLKS	Batch ID: 24924				Analysis Date: 6/14/2019			SeqNo: 1028440			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.25		1.250		100	56.5	129				

Work Order: 1906173
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-24924		SampType: MBLK			Units: mg/Kg		Prep Date: 6/14/2019			RunNo: 52100		
Client ID: MBLKS		Batch ID: 24924			Analysis Date: 6/14/2019					SeqNo: 1028440		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: Toluene-d8	1.25		1.250		100	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.07		1.250		85.8	54.8	168				

Sample ID: LCS-24925		SampType: LCS			Units: mg/Kg		Prep Date: 6/14/2019			RunNo: 52104		
Client ID: LCSS		Batch ID: 24925			Analysis Date: 6/14/2019			SeqNo: 1028525				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.979	0.0250	1.000	0	97.9	43.4	151				
cis-1,2-Dichloroethene	1.05	0.0200	1.000	0	105	71.3	135				
Trichloroethene (TCE)	1.03	0.0200	1.000	0	103	65.5	137				
Tetrachloroethene (PCE)	1.03	0.0250	1.000	0	103	52.7	150				
Surr: Dibromofluoromethane	1.35		1.250		108	56.5	129				
Surr: Toluene-d8	1.29		1.250		104	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168				

Sample ID: LCSD-24925		SampType: LCSD			Units: mg/Kg		Prep Date: 6/14/2019			RunNo: 52104		
Client ID: LCSS02		Batch ID: 24925			Analysis Date: 6/14/2019					SeqNo: 1028526		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.942	0.0250	1.000	0	94.2	43.4	151	0.9794	3.94	20	
cis-1,2-Dichloroethene	1.03	0.0200	1.000	0	103	71.6	123	1.045	1.27	20	
Trichloroethene (TCE)	0.989	0.0200	1.000	0	98.9	65.5	137	1.033	4.41	20	
Tetrachloroethene (PCE)	1.01	0.0250	1.000	0	101	52.7	150	1.031	1.78	20	
Surr: Dibromofluoromethane	1.34		1.250		107	56.5	129		0		
Surr: Toluene-d8	1.29		1.250		103	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		100	54.8	168		0		



Date: 6/17/2019

Work Order: 1906173
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: MB-24925		SampType: MBLK			Units: mg/Kg		Prep Date: 6/14/2019			RunNo: 52104		
Client ID: MBLKS		Batch ID: 24925			Analysis Date: 6/15/2019					SeqNo: 1028527		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.21		1.250		96.7	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.22		1.250		97.8	54.8	168				

Sample ID: 1906173-023BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 6/14/2019		RunNo: 52104		
Client ID: B-947-15		Batch ID: 24925			Analysis Date: 6/15/2019				SeqNo: 1028521		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.238						0	0	30	D
cis-1,2-Dichloroethene	ND	0.191						0	0	30	D
Trichloroethene (TCE)	ND	0.191						0	0	30	D
Tetrachloroethene (PCE)	0.0980	0.238						0	200	30	DJ
Surr: Dibromofluoromethane	11.8		11.91		98.7	56.5	129		0		D
Surr: Toluene-d8	12.1		11.91		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.1		11.91		101	54.8	168		0		D

Sample ID: 1906173-010BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 6/14/2019			RunNo: 52100		
Client ID: 03-0B-002-28		Batch ID: 24924						Analysis Date: 6/15/2019			SeqNo: 1028423	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.218						0	0	30	D
cis-1,2-Dichloroethene	ND	0.174						0	0	30	D
Trichloroethene (TCE)	ND	0.174						0	0	30	D
Tetrachloroethene (PCE)	6.44	0.218						5.012	24.9	30	D
Surr: Dibromofluoromethane	11.1		10.88		102	56.5	129		0		D
Surr: Toluene-d8	10.7		10.88		98.5	64.5	151		0		D

Work Order: 1906173
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1906173-010BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 6/14/2019		RunNo: 52100			
Client ID: 03-0B-002-28		Batch ID: 24924				Analysis Date: 6/15/2019		SeqNo: 1028423			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	9.94		10.88		91.3	54.8	168		0		D

Sample ID: 1906173-020BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 6/14/2019			RunNo: 52100		
Client ID: 04-0B-102-29	Batch ID: 24924					Analysis Date: 6/15/2019			SeqNo: 1028434		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.255						0	0	30	D
cis-1,2-Dichloroethene	ND	0.204						0	0	30	D
Trichloroethene (TCE)	ND	0.204						0	0	30	D
Tetrachloroethene (PCE)	ND	0.255						0	0	30	D
Surr: Dibromofluoromethane	12.9		12.76		101	56.5	129		0		D
Surr: Toluene-d8	13.6		12.76		107	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.8		12.76		92.6	54.8	168		0		D



Work Order: 1906173
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1906173-003ADUP	SampType: DUP	Units: wt%			Prep Date: 6/14/2019				RunNo: 52089		
Client ID: 03-31-117-30	Batch ID: R52089				Analysis Date: 6/14/2019				SeqNo: 1028115		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	11.7	0.500						11.23	4.44	20	

Sample ID: 1906173-023ADUP		SampType: DUP		Units: wt%		Prep Date: 6/14/2019			RunNo: 52089		
Client ID: B-947-15		Batch ID: R52089					Analysis Date: 6/14/2019			SeqNo: 1028254	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	6.80	0.500						6.641	2.33	20	

Sample ID: 1906173-016ADUP	SampType: DUP	Units: wt%			Prep Date: 6/14/2019			RunNo: 52090			
Client ID: 04-27-100-26	Batch ID: R52090				Analysis Date: 6/14/2019			SeqNo: 1028319			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	10.4	0.500						10.90	4.81	20	

Client Name: **PES**
 Logged by: **Clare Griggs**

Work Order Number: **1906173**
 Date Received: **6/14/2019 1:02:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >0°C to 10.0°C * Yes ☐ No ☒ NA ☐
Most samples received straight from field.
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	21.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/14/19 Page: 1 of 3

Project Name: AMERICAN UEN

Project No: 1413.001.05.402

Collected by: RTM/KSW/KSZ

Location: SEATTLE WA

Report To (PM): B. ONEAL, K. VIK

PM Email: BONEAL@PESENV.COM KVIK@PESENV.COM

Laboratory Project No (Internal): 1900179

Special Remarks: ASAP TAT

SUBJECT LIST: PCE, TCE, VC

CIS-1,2

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL

Address: 125 4th Ave STE 1350

City, State, Zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
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1 03-29-151-28 6/14/19 1010 S X

2 03-29-104-28 0825

3 03-31-117-30 0842

4 03-29-117-28 0845

5 03-31-106-30 0932

6 03-29-106-28 0942

7 03-31-105-30 0911

8 03-29-105-28 0915

9 03-08-202-30 0926

10 03-08-202-28 0935 X

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sn Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
X	6/14/19 1302	X	6/14/19 1302
Relinquished	Date/Time	Received	Date/Time
X		X	

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☐ Next Day

☐ Same Day ASAP (specify)



Fremont

ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/14/19 Page: 2 of 3

Project Name: AMERICAN LIVEN

Project No: SEE PG 1

Collected by: SEE PG 1

Location: SEE PG 1

Report To (PM): SEE PG 1

PM Email: SEE PG 1

Laboratory Project No (Internal): 1900173

Special Remarks: ASAP TAT

SELECT LIST: PCE, TCE, VC
CIS-1,2

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: RES ENVIRONMENTAL

Address: SEE PG 1

City, State, Zip: SEE PG 1

Telephone: SEE PG 1

Fax: SEE PG 1

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*														Comments
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 / 608)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (801.1)	
1 B-946-28	6/14/19	1130	S	X													
2 04-08-000-29		1140															
3 04-08-000-28		1142															
4 04-08-100-29		1105															
5 04-08-100-28		1108															
6 04-08-100-26		1115															
7 04-08-101-29		1200															
8 04-08-101-28		1205															
9 04-08-101-26		1215															
10 04-08-102-29	X	1129	X	X													

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished

Date/Time

6/14/19 1303

Received

Date/Time

6/14/19 1203

Relinquished

Date/Time

6/14/19 1303

Received

Date/Time

6/14/19 1203

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☐ Next Day

☐ Same Day

(Specify) ASAP



Fremont

Analytical

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Seattle, WA 98103
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Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/14/19 Page: 3 of 3

Project Name: AMERICAN LINEN

Project No: SEE PG 79

Collected by: SEE PG 79

Location: SEE PG 79

Report To (PM): SEE PG 79

PM Email: SEE PG 79

Laboratory Project No (Internal): 1906073

Special Remarks: ASAP TAT (Monday AM)

SELECT LIST: PCE, TCE, VC,

CIS-1,2

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Address: SEE PG 79

City, State, Zip: SEE PG 79

Telephone: SEE PG 79

Fax: SEE PG 79

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments	
1 04-08-102-28	6/14/19	1130	S	X														
2 04-08-102-26	1	1150																
3 B-947-15	X	1240	X	X														
4 TB-061419	6/5/19	6:45 PM	-	X														
5		1606																
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

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Relinquished	Date/Time	Received	Date/Time	Turn-around Time:
<u>Relinquished</u>	<u>6/14/19</u>	<u>1303</u>	<u>6/14/19</u>	☐ Standard
<u>Relinquished</u>	<u>6/14/19</u>	<u>1303</u>	<u>6/14/19</u>	☐ 3 Day
<u>Relinquished</u>	<u>6/14/19</u>	<u>1303</u>	<u>6/14/19</u>	☐ 2 Day
<u>Relinquished</u>	<u>6/14/19</u>	<u>1303</u>	<u>6/14/19</u>	☐ Next Day
<u>Relinquished</u>	<u>6/14/19</u>	<u>1303</u>	<u>6/14/19</u>	☐ Same Day <u>ASAP</u>



Date: 6/14/19 Page: 1 of 3

Laboratory Project No (internal):	1900173
Special Remarks:	

Project No: 1413.006.05.402

Collected by: RTM, KSW, KSS

Location: SEATTLE WA

Report To (PM): B. ONEAL; K. VIK

BOBENAIOFFSENV.COM

KVik@Persenv.com

adits per R. M. Gilfillan

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*															Comments		
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DYO)	SYOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)				
1 03-29-B1-28	6/14/19	1010	S	X																
2 03-29-104-28		0825																		
3 03-31-117-30		0842																		
4 03-29-117-28		0845																		
5 03-31-106-30		0932																		
6 03-29-106-28		0942																		
7 03-31-105-30		0911																		
8 03-29-105-28		0915																		
9 03-08-002-30		0926																		
10 03-08-002-28		0935	S	X																

with per R.M. 6/14/19

Transmitted Trans.

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

***Metals (Circle): MTC-A-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

Interests (anionic):	Nitrate	Nitrite	Chloride	Sulfate	Bromide	O-Phosphate	Fluoride	Nitrate+Nitrite
***Anions (Circle):								

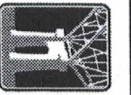
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Relinquished	Date/Time	Received	Date/Time
<i>[Signature]</i>	10/20	<i>[Signature]</i>	11/14/19
			13:05

Received	Date/Time	Received	Date/Time
X	6/11/11	X	6/14/19
1302		1302	

Relinquished	Date/Time	Received
X		X

Page 1 of 2



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Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/14/19 Page: 2 of 3

Project Name: AMERICAN LIVEN

Project No:

Collected by:

Location:

Report to (PM):

PM Email:

Laboratory Project No (Internal): 1400173

Special Remarks:

ASAP TAT

SELECT LIST: PCE, TCE, VC

CIS-1,2

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: RES ENVIRONMENTAL

Address:

City, State, Zip: SEE PG 1

Telephone:

Fax:

Sample Name

Sample Date

Sample Time

Sample Type (Matrix)*

VOCs (EPA 8260 / 624)
GX/BTEX
BTEX

Gasoline Range Organics (GX)
Hydrocarbon Identification (HCID)
Diesel/Heavy Oil Range Organics (DH)
SVOCs (EPA 8270 / 625)
PAHs (EPA 8270 - SIM)
PCBs (EPA 8082 / 608)
Metals** (EPA 6020 / 200.8)
Total (T) / Dissolved (D)
Anions (IC)***
EDB (801.1)

Comments

1 B-946-28

6/14/19

1130

S

X

2 04-08-000-29

1140

1142

1108

1105

3 04-08-000-28

1142

1108

1105

4 04-08-100-29

1108

1105

5 04-08-100-28

1108

1105

6 04-08-100-26

1115

1205

7 04-08-101-29

1205

1215

8 04-08-101-28

1215

1215

9 04-08-101-26

1215

1215

10 04-08-102-29

1129

1129

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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Relinquished Date/Time: 6/14/19 1303

Received Date/Time: 6/14/19 1303

Relinquished Date/Time: 6/14/19 1303

Received Date/Time: 6/14/19 1303

Relinquished Date/Time: 6/14/19 1303

Received Date/Time: 6/14/19 1303

Relinquished Date/Time: 6/14/19 1303

Received Date/Time: 6/14/19 1303

Relinquished Date/Time: 6/14/19 1303

Received Date/Time: 6/14/19 1303

Relinquished Date/Time: 6/14/19 1303

Received Date/Time: 6/14/19 1303

Relinquished Date/Time: 6/14/19 1303

Relinquished Date/Time: 6/14/19 1303

Turn-around Time: ☐ Standard ☐ 3 Day ☐ 2 Day ☐ Next Day ☐ Same Day

ASAP

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ASAP



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Seattle, WA 98103
Tel: 206-352-3790
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Chain of Custody Record & Laboratory Services Agreement

Date: 6/14/19 Page: 3 of 3

Project Name: AMERICAN LINEN

Project No: SEE PG

Collected by: SEE PG

Location: SEE PG

Report To (PM): SEE PG

PM Email: SEE PG

Laboratory Project No (Internal): 1906179

Special Remarks:

ASAP TAT (Monday AM)

SELECT LIST: PCE, TCE, VC,

CIS-1,2

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: RES ENVIRONMENTAL

Address: SEE PG

City, State, Zip: SEE PG

Telephone: SEE PG

Fax: SEE PG

Sample Name Sample Date Sample Time Sample Type (Matrix)*

VOCs (EPA 8260 / 624)
GX/BTEX
BTEX
Gasoline Range Organics (GX)
Hydrocarbon Identification (HCID)
Diesel/Heavy Oil Range Organics (DO)
SVOCs (EPA 8270 / 625)
PAHs (EPA 8270 - SIM)
PCBs (EPA 8082 / 608)
Metals** (EPA 6020 / 200.8)
Total (T) / Dissolved (D)
Anions (IC)***
EDB (8011)

Comments

1 04-08-102-28 6/14/19 1130 S X

2 04-08-102-26 1150 X

3 B-947-15 1240 X

4 TB-061419 6/5/19 1606 X

5

6

7

8

9

10

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Relinquished Date/Time

Received Date/Time

Relinquished Date/Time

Received Date/Time

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☐ Next Day

☐ Same Day

(Specify)



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1906174

June 17, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 13 sample(s) on 6/14/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1906174

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906174-001	03-27-101-26	06/14/2019 10:15 AM	06/14/2019 1:03 PM
1906174-002	03-25-101-24	06/14/2019 10:20 AM	06/14/2019 1:03 PM
1906174-003	03-27-104-26	06/14/2019 8:28 AM	06/14/2019 1:03 PM
1906174-004	03-25-104-24	06/14/2019 8:35 AM	06/14/2019 1:03 PM
1906174-005	03-27-105-26	06/14/2019 9:18 AM	06/14/2019 1:03 PM
1906174-006	03-25-105-24	06/14/2019 9:23 AM	06/14/2019 1:03 PM
1906174-007	03-27-106-26	06/14/2019 9:46 AM	06/14/2019 1:03 PM
1906174-008	03-25-106-24	06/14/2019 9:50 AM	06/14/2019 1:03 PM
1906174-009	03-27-117-26	06/14/2019 8:49 AM	06/14/2019 1:03 PM
1906174-010	03-25-117-24	06/14/2019 8:55 AM	06/14/2019 1:03 PM
1906174-011	04-25-100-24	06/14/2019 11:20 AM	06/14/2019 1:03 PM
1906174-012	04-25-101-24	06/14/2019 12:10 PM	06/14/2019 1:03 PM
1906174-013	04-25-102-24	06/14/2019 11:55 AM	06/14/2019 1:03 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Work Order: 1906174

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906174-001

Client Sample ID: 03-27-101-26

Collection Date: 6/14/2019 10:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24929

Analyst: CR

Vinyl chloride	0.156	0.243	DJ	mg/Kg-dry	10	6/17/2019 10:02:54 AM
cis-1,2-Dichloroethene	0.947	0.194	D	mg/Kg-dry	10	6/17/2019 10:02:54 AM
Trichloroethene (TCE)	0.146	0.194	DJ	mg/Kg-dry	10	6/17/2019 10:02:54 AM
Tetrachloroethene (PCE)	0.553	0.243	D	mg/Kg-dry	10	6/17/2019 10:02:54 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/17/2019 10:02:54 AM
Surr: Toluene-d8	104	64.5 - 151	D	%Rec	10	6/17/2019 10:02:54 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	6/17/2019 10:02:54 AM

Sample Moisture (Percent Moisture)

Batch ID: R52099

Analyst: PA

Percent Moisture	12.7	0.500	wt%	1	6/17/2019 8:02:36 AM
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Lab ID: 1906174-002

Client Sample ID: 03-25-101-24

Collection Date: 6/14/2019 10:20:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24929

Analyst: CR

Vinyl chloride	ND	0.237	D	mg/Kg-dry	10	6/17/2019 11:03:08 AM
cis-1,2-Dichloroethene	0.308	0.190	D	mg/Kg-dry	10	6/17/2019 11:03:08 AM
Trichloroethene (TCE)	ND	0.190	D	mg/Kg-dry	10	6/17/2019 11:03:08 AM
Tetrachloroethene (PCE)	0.158	0.237	DJ	mg/Kg-dry	10	6/17/2019 11:03:08 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/17/2019 11:03:08 AM
Surr: Toluene-d8	105	64.5 - 151	D	%Rec	10	6/17/2019 11:03:08 AM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/17/2019 11:03:08 AM

Sample Moisture (Percent Moisture)

Batch ID: R52099

Analyst: PA

Percent Moisture	13.0	0.500	wt%	1	6/17/2019 8:02:36 AM
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Analytical Report

Work Order: 1906174

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906174-003

Client Sample ID: 03-27-104-26

Collection Date: 6/14/2019 8:28:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24929

Analyst: CR

Vinyl chloride	ND	0.223	D	mg/Kg-dry	10	6/17/2019 11:33:16 AM
cis-1,2-Dichloroethene	ND	0.179	D	mg/Kg-dry	10	6/17/2019 11:33:16 AM
Trichloroethene (TCE)	ND	0.179	D	mg/Kg-dry	10	6/17/2019 11:33:16 AM
Tetrachloroethene (PCE)	1.26	0.223	D	mg/Kg-dry	10	6/17/2019 11:33:16 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/17/2019 11:33:16 AM
Surr: Toluene-d8	104	64.5 - 151	D	%Rec	10	6/17/2019 11:33:16 AM
Surr: 1-Bromo-4-fluorobenzene	98.6	54.8 - 168	D	%Rec	10	6/17/2019 11:33:16 AM

Sample Moisture (Percent Moisture)

Batch ID: R52099

Analyst: PA

Percent Moisture	13.4	0.500	wt%	1	6/17/2019 8:02:36 AM
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Lab ID: 1906174-004

Client Sample ID: 03-25-104-24

Collection Date: 6/14/2019 8:35:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24929

Analyst: CR

Vinyl chloride	ND	0.201	D	mg/Kg-dry	10	6/17/2019 12:03:23 PM
cis-1,2-Dichloroethene	ND	0.161	D	mg/Kg-dry	10	6/17/2019 12:03:23 PM
Trichloroethene (TCE)	ND	0.161	D	mg/Kg-dry	10	6/17/2019 12:03:23 PM
Tetrachloroethene (PCE)	2.01	0.201	D	mg/Kg-dry	10	6/17/2019 12:03:23 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/17/2019 12:03:23 PM
Surr: Toluene-d8	104	64.5 - 151	D	%Rec	10	6/17/2019 12:03:23 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/17/2019 12:03:23 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099

Analyst: PA

Percent Moisture	12.0	0.500	wt%	1	6/17/2019 8:02:36 AM
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Analytical Report

Work Order: 1906174

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906174-005

Client Sample ID: 03-27-105-26

Collection Date: 6/14/2019 9:18:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24929		Analyst: CR
Vinyl chloride	ND	0.259	D	mg/Kg-dry	10	6/17/2019 12:33:29 PM
cis-1,2-Dichloroethene	ND	0.207	D	mg/Kg-dry	10	6/17/2019 12:33:29 PM
Trichloroethene (TCE)	ND	0.207	D	mg/Kg-dry	10	6/17/2019 12:33:29 PM
Tetrachloroethene (PCE)	2.27	0.259	D	mg/Kg-dry	10	6/17/2019 12:33:29 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	6/17/2019 12:33:29 PM
Surr: Toluene-d8	107	64.5 - 151	D	%Rec	10	6/17/2019 12:33:29 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	6/17/2019 12:33:29 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099 Analyst: PA

Percent Moisture	14.8	0.500	wt%	1	6/17/2019 8:02:36 AM
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Lab ID: 1906174-006

Client Sample ID: 03-25-105-24

Collection Date: 6/14/2019 9:23:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24929		Analyst: CR
Vinyl chloride	ND	0.199	D	mg/Kg-dry	10	6/17/2019 1:03:38 PM
cis-1,2-Dichloroethene	0.0823	0.159	DJ	mg/Kg-dry	10	6/17/2019 1:03:38 PM
Trichloroethene (TCE)	ND	0.159	D	mg/Kg-dry	10	6/17/2019 1:03:38 PM
Tetrachloroethene (PCE)	2.23	0.199	D	mg/Kg-dry	10	6/17/2019 1:03:38 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/17/2019 1:03:38 PM
Surr: Toluene-d8	105	64.5 - 151	D	%Rec	10	6/17/2019 1:03:38 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/17/2019 1:03:38 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099 Analyst: PA

Percent Moisture	13.0	0.500	wt%	1	6/17/2019 8:02:36 AM
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Work Order: 1906174

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906174-007

Client Sample ID: 03-27-106-26

Collection Date: 6/14/2019 9:46:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24929

Analyst: CR

Vinyl chloride	ND	0.211	D	mg/Kg-dry	10	6/17/2019 1:33:45 PM
cis-1,2-Dichloroethene	ND	0.169	D	mg/Kg-dry	10	6/17/2019 1:33:45 PM
Trichloroethene (TCE)	0.336	0.169	D	mg/Kg-dry	10	6/17/2019 1:33:45 PM
Tetrachloroethene (PCE)	8.60	0.211	D	mg/Kg-dry	10	6/17/2019 1:33:45 PM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	6/17/2019 1:33:45 PM
Surr: Toluene-d8	106	64.5 - 151	D	%Rec	10	6/17/2019 1:33:45 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	6/17/2019 1:33:45 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099

Analyst: PA

Percent Moisture	14.0	0.500		wt%	1	6/17/2019 8:02:36 AM
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Lab ID: 1906174-008

Client Sample ID: 03-25-106-24

Collection Date: 6/14/2019 9:50:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24932

Analyst: CR

Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	6/17/2019 12:19:19 PM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	6/17/2019 12:19:19 PM
Trichloroethene (TCE)	0.172	0.184	DJ	mg/Kg-dry	10	6/17/2019 12:19:19 PM
Tetrachloroethene (PCE)	12.3	0.230	D	mg/Kg-dry	10	6/17/2019 12:19:19 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/17/2019 12:19:19 PM
Surr: Toluene-d8	97.9	64.5 - 151	D	%Rec	10	6/17/2019 12:19:19 PM
Surr: 1-Bromo-4-fluorobenzene	89.9	54.8 - 168	D	%Rec	10	6/17/2019 12:19:19 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099

Analyst: PA

Percent Moisture	12.3	0.500		wt%	1	6/17/2019 8:02:36 AM
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Analytical Report

Work Order: 1906174

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906174-009

Client Sample ID: 03-27-117-26

Collection Date: 6/14/2019 8:49:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24932		Analyst: CR
Vinyl chloride	ND	0.198	D	mg/Kg-dry	10	6/17/2019 1:21:18 PM
cis-1,2-Dichloroethene	ND	0.158	D	mg/Kg-dry	10	6/17/2019 1:21:18 PM
Trichloroethene (TCE)	ND	0.158	D	mg/Kg-dry	10	6/17/2019 1:21:18 PM
Tetrachloroethene (PCE)	1.06	0.198	D	mg/Kg-dry	10	6/17/2019 1:21:18 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/17/2019 1:21:18 PM
Surr: Toluene-d8	82.3	64.5 - 151	D	%Rec	10	6/17/2019 1:21:18 PM
Surr: 1-Bromo-4-fluorobenzene	90.0	54.8 - 168	D	%Rec	10	6/17/2019 1:21:18 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099 Analyst: PA

Percent Moisture	11.6	0.500	wt%	1	6/17/2019 8:02:36 AM
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Lab ID: 1906174-010

Client Sample ID: 03-25-117-24

Collection Date: 6/14/2019 8:55:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24932		Analyst: CR
Vinyl chloride	ND	0.223	D	mg/Kg-dry	10	6/17/2019 1:52:26 PM
cis-1,2-Dichloroethene	ND	0.178	D	mg/Kg-dry	10	6/17/2019 1:52:26 PM
Trichloroethene (TCE)	ND	0.178	D	mg/Kg-dry	10	6/17/2019 1:52:26 PM
Tetrachloroethene (PCE)	0.437	0.223	D	mg/Kg-dry	10	6/17/2019 1:52:26 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/17/2019 1:52:26 PM
Surr: Toluene-d8	107	64.5 - 151	D	%Rec	10	6/17/2019 1:52:26 PM
Surr: 1-Bromo-4-fluorobenzene	89.7	54.8 - 168	D	%Rec	10	6/17/2019 1:52:26 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099 Analyst: PA

Percent Moisture	12.6	0.500	wt%	1	6/17/2019 8:02:36 AM
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Analytical Report

Work Order: 1906174

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906174-011

Client Sample ID: 04-25-100-24

Collection Date: 6/14/2019 11:20:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24932		Analyst: CR
Vinyl chloride	ND	0.277	D	mg/Kg-dry	10	6/17/2019 2:23:38 PM
cis-1,2-Dichloroethene	ND	0.221	D	mg/Kg-dry	10	6/17/2019 2:23:38 PM
Trichloroethene (TCE)	0.246	0.221	D	mg/Kg-dry	10	6/17/2019 2:23:38 PM
Tetrachloroethene (PCE)	11.8	0.277	D	mg/Kg-dry	10	6/17/2019 2:23:38 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/17/2019 2:23:38 PM
Surr: Toluene-d8	95.3	64.5 - 151	D	%Rec	10	6/17/2019 2:23:38 PM
Surr: 1-Bromo-4-fluorobenzene	91.0	54.8 - 168	D	%Rec	10	6/17/2019 2:23:38 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099 Analyst: PA

Percent Moisture	8.63	0.500	wt%	1	6/17/2019 8:02:36 AM
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Lab ID: 1906174-012

Client Sample ID: 04-25-101-24

Collection Date: 6/14/2019 12:10:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24932		Analyst: CR
Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	6/17/2019 2:54:54 PM
cis-1,2-Dichloroethene	0.318	0.202	D	mg/Kg-dry	10	6/17/2019 2:54:54 PM
Trichloroethene (TCE)	0.279	0.202	D	mg/Kg-dry	10	6/17/2019 2:54:54 PM
Tetrachloroethene (PCE)	17.4	0.253	D	mg/Kg-dry	10	6/17/2019 2:54:54 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/17/2019 2:54:54 PM
Surr: Toluene-d8	85.6	64.5 - 151	D	%Rec	10	6/17/2019 2:54:54 PM
Surr: 1-Bromo-4-fluorobenzene	90.0	54.8 - 168	D	%Rec	10	6/17/2019 2:54:54 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099 Analyst: PA

Percent Moisture	10.7	0.500	wt%	1	6/17/2019 8:02:36 AM
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Analytical Report

Work Order: 1906174

Date Reported: 6/17/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906174-013

Collection Date: 6/14/2019 11:55:00 AM

Client Sample ID: 04-25-102-24

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24932

Analyst: CR

Vinyl chloride	ND	0.228	D	mg/Kg-dry	10	6/17/2019 3:26:17 PM
cis-1,2-Dichloroethene	ND	0.182	D	mg/Kg-dry	10	6/17/2019 3:26:17 PM
Trichloroethene (TCE)	ND	0.182	D	mg/Kg-dry	10	6/17/2019 3:26:17 PM
Tetrachloroethene (PCE)	0.942	0.228	D	mg/Kg-dry	10	6/17/2019 3:26:17 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/17/2019 3:26:17 PM
Surr: Toluene-d8	110	64.5 - 151	D	%Rec	10	6/17/2019 3:26:17 PM
Surr: 1-Bromo-4-fluorobenzene	90.3	54.8 - 168	D	%Rec	10	6/17/2019 3:26:17 PM

Sample Moisture (Percent Moisture)

Batch ID: R52099

Analyst: PA

Percent Moisture	9.06	0.500		wt%	1	6/17/2019 8:02:36 AM
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Work Order: 1906174
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-24929	SampType: LCS	Units: mg/Kg				Prep Date: 6/17/2019			RunNo: 52116		
Client ID: LCSS	Batch ID: 24929	Analysis Date: 6/17/2019							SeqNo: 1028700		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.00	0.0250	1.000	0	100	43.4	151				
cis-1,2-Dichloroethene	1.01	0.0200	1.000	0	101	71.3	135				
Trichloroethene (TCE)	1.03	0.0200	1.000	0	103	65.5	137				
Tetrachloroethene (PCE)	1.02	0.0250	1.000	0	102	52.7	150				
Surr: Dibromofluoromethane	1.39		1.250		111	56.5	129				
Surr: Toluene-d8	1.32		1.250		105	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	54.8	168				

Sample ID: MB-24929	SampType: MBLK	Units: mg/Kg			Prep Date: 6/17/2019			RunNo: 52116			
Client ID: MBLKS	Batch ID: 24929				Analysis Date: 6/17/2019			SeqNo: 1028702			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.25		1.250		100	56.5	129				
Surr: Toluene-d8	1.31		1.250		105	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	54.8	168				

Sample ID: LCS-24932	SampType: LCS	Units: mg/Kg				Prep Date: 6/17/2019			RunNo: 52119		
Client ID: LCSS	Batch ID: 24932	Analysis Date: 6/17/2019						SeqNo: 1028768			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.848	0.0250	1.000	0	84.8	43.4	151				
cis-1,2-Dichloroethene	1.01	0.0200	1.000	0	101	71.3	135				
Trichloroethene (TCE)	1.16	0.0200	1.000	0	116	65.5	137				
Tetrachloroethene (PCE)	1.03	0.0250	1.000	0	103	52.7	150				
Surr: Dibromofluoromethane	1.25		1.250		100	56.5	129				
Surr: Toluene-d8	1.16		1.250		92.4	64.5	151				

Work Order: 1906174
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-24932		SampType: LCS			Units: mg/Kg		Prep Date: 6/17/2019			RunNo: 52119		
Client ID: LCSS		Batch ID: 24932			Analysis Date: 6/17/2019			SeqNo: 1028768				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: 1-Bromo-4-fluorobenzene 1.29 1.250 104 54.8 168

Sample ID: 1906174-001BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 6/17/2019			RunNo: 52116		
Client ID: 03-27-101-26		Batch ID: 24929			Analysis Date: 6/17/2019			SeqNo: 1028691				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.147	0.243						0.1563	6.41	30	DJ
cis-1,2-Dichloroethene	0.913	0.194						0.9473	3.74	30	D
Trichloroethene (TCE)	0.119	0.194						0.1457	20.2	30	DJ
Tetrachloroethene (PCE)	0.502	0.243						0.5531	9.76	30	D
Surr: Dibromofluoromethane	12.7		12.15		104	56.5	129		0		D
Surr: Toluene-d8	12.7		12.15		105	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.4		12.15		102	54.8	168		0		D

Sample ID: LCSD-24932		SampType: LCSD			Units: mg/Kg		Prep Date: 6/17/2019			RunNo: 52119		
Client ID: LCSS02		Batch ID: 24932			Analysis Date: 6/17/2019					SeqNo: 1028769		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.762	0.0250	1.000	0	76.2	43.4	151	0.8482	10.7	20
cis-1,2-Dichloroethene	0.940	0.0200	1.000	0	94.0	71.6	123	1.013	7.55	20
Trichloroethene (TCE)	1.04	0.0200	1.000	0	104	65.5	137	1.160	10.9	20
Tetrachloroethene (PCE)	1.05	0.0250	1.000	0	105	52.7	150	1.031	1.99	20
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129		0	
Surr: Toluene-d8	1.33		1.250		107	64.5	151		0	
Surr: 1-Bromo-4-fluorobenzene	1.39		1.250		111	54.8	168		0	

Work Order: 1906174
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-24932		SampType: MBLK		Units: mg/Kg		Prep Date: 6/17/2019			RunNo: 52119			
Client ID: MBLKS		Batch ID: 24932					Analysis Date: 6/17/2019			SeqNo: 1028770		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.25		1.250		100	56.5	129				
Surr: Toluene-d8	1.27		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.09		1.250		87.1	54.8	168				

Sample ID: 1906174-008BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 6/17/2019			RunNo: 52119		
Client ID: 03-25-106-24		Batch ID: 24932					Analysis Date: 6/17/2019			SeqNo: 1028852	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.230						0	0	30	D
cis-1,2-Dichloroethene	ND	0.184						0	0	30	D
Trichloroethene (TCE)	0.133	0.184						0.1715	24.9	30	DJ
Tetrachloroethene (PCE)	10.6	0.230						12.26	14.4	30	D
Surr: Dibromofluoromethane	11.8		11.48		103	56.5	129		0		D
Surr: Toluene-d8	10.0		11.48		87.3	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.3		11.48		89.9	54.8	168		0		D

Sample ID: LCSD-24929		SampType: LCSD			Units: mg/Kg		Prep Date: 6/17/2019			RunNo: 52116		
Client ID: LCSS02		Batch ID: 24929			Analysis Date: 6/17/2019			SeqNo: 1028701				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.949	0.0250	1.000	0	94.9	43.4	151	1.000	5.32	20	
cis-1,2-Dichloroethene	0.992	0.0200	1.000	0	99.2	71.6	123	1.007	1.51	20	
Trichloroethene (TCE)	1.03	0.0200	1.000	0	103	65.5	137	1.025	0.0569	20	
Tetrachloroethene (PCE)	1.02	0.0250	1.000	0	102	52.7	150	1.022	0.623	20	
Surr: Dibromofluoromethane	1.34		1.250		107	56.5	129		0		
Surr: Toluene-d8	1.32		1.250		105	64.5	151		0		

Work Order: 1906174
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCSD-24929		SampType: LCSD		Units: mg/Kg		Prep Date: 6/17/2019			RunNo: 52116		
Client ID: LCSS02		Batch ID: 24929					Analysis Date: 6/17/2019			SeqNo: 1028701	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	1.31		1.250		105	54.8	168		0		

Work Order: 1906174
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1906174-001ADUP		SampType: DUP			Units: wt%		Prep Date: 6/17/2019			RunNo: 52099		
Client ID: 03-27-101-26		Batch ID: R52099			Analysis Date: 6/17/2019			SeqNo: 1028396				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	12.7	0.500						12.73	0.0495	20		

Sample ID: 1906174-011ADUP		SampType: DUP			Units: wt%		Prep Date: 6/17/2019			RunNo: 52099		
Client ID: 04-25-100-24		Batch ID: R52099						Analysis Date: 6/17/2019			SeqNo: 1028407	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	9.36	0.500						8.630	8.11	20		

Client Name: **PES**

 Work Order Number: **1906174**

 Logged by: **Clare Griggs**

 Date Received: **6/14/2019 1:03:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☐ No ☒ NA ☐
- Most samples received straight from field.**
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	21.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6-14-19 Page: 1 of 2

Project Name: AMERICAN LIVEN

Project No: 1413.001.05.402

Collected by: Rachel Melancon/Kate Zick

Location: SEATTLE, WA

Report To (PM): BLAN O'NEAL

PM Email: BONEAL@PSECU.COM, EVILK@PSECU.COM

Laboratory Project No (Internal): 19010174

Special Remarks: 48 HR TAT

SELECT UST: PCE, TCE, V.C., CIS-1, 2

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PBS Environmental Inc.
Address: 1215 4th Ave Ste 1350
City, State, Zip: SEATTLE, WA 98161
Telephone: 206-529-3980
Fax: 206-529-3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*																	Comments
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)				
1 03-27-101-26	6-14-19	1015	S	X																
2 03-25-101-24		1020																		
3 03-27-104-26		828																		
4 03-25-104-24		835																		
5 03-27-105-26		918																		
6 03-25-105-24		923																		
7 03-27-106-26		946																		
8 03-25-106-24		950																		
9 03-27-117-26		849																		
10 03-25-117-24		855		X																

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
X	6/14/19 1303	X	6/14/19 1303
Relinquished	Date/Time	Received	Date/Time
X	6/14/19 1303	X	6/14/19 1303



Fremont
Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/14/19 Page: 2 of 2

Project Name: AMERICAN LINEN

Client: PES ENVIRONMENTAL

Project No:

Address:

Collected by:

City, State, Zip:

Location:

Telephone:

Report to (PM):

Fax:

PM Email:

Laboratory Project No (Internal):

Special Remarks:

48 HR TAT
SELECT LIST: PCE, TCE
V.C., CIS-1,2

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Type	Sample Matrix*	VOCs (EPA 8260 / 624)	GX/BTEX	BTX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - SIM)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
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RM

RM

1	04-25-100-26	6/14/19	5														
2	04-25-100-24	6/14/19	1120														
3	04-25-101-26																
4	04-25-101-24		1210														
5	04-25-102-24		1155	X													
6																	
7																	
8																	
9																	
10																	

Turn-around Time:

☐ Standard

☐ 3 Day

☒ 2 Day

☐ Next Day

Same Day (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished

Date/Time

6/14/19 1303

Received

Date/Time

6/14/19 1303

Relinquished

Date/Time

6/14/19 1303

Received

Date/Time

6/14/19 1303



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1906210

June 19, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 9 sample(s) on 6/18/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1906210

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906210-001	03-30-200-29.5	06/18/2019 8:15 AM	06/18/2019 11:04 AM
1906210-002	03-30-201-29.5	06/18/2019 8:18 AM	06/18/2019 11:04 AM
1906210-003	03-31.5-202-30	06/18/2019 8:03 AM	06/18/2019 11:04 AM
1906210-004	03-31.5-203-30	06/18/2019 8:10 AM	06/18/2019 11:04 AM
1906210-005	04-25-107-24	06/18/2019 9:53 AM	06/18/2019 11:04 AM
1906210-006	04-25-108-24	06/18/2019 9:58 AM	06/18/2019 11:04 AM
1906210-007	04-25-109-24	06/18/2019 10:02 AM	06/18/2019 11:04 AM
1906210-008	B-948-24	06/18/2019 10:30 AM	06/18/2019 11:04 AM
1906210-009	TB-061819	06/05/2019 4:06 PM	06/18/2019 11:04 AM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1906210

Date Reported: 6/19/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906210-001

Client Sample ID: 03-30-200-29.5

Collection Date: 6/18/2019 8:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24952		Analyst: KT
Vinyl chloride	ND	0.221	D	mg/Kg-dry	10	6/18/2019 4:06:56 PM
cis-1,2-Dichloroethene	ND	0.177	D	mg/Kg-dry	10	6/18/2019 4:06:56 PM
Trichloroethene (TCE)	ND	0.177	D	mg/Kg-dry	10	6/18/2019 4:06:56 PM
Tetrachloroethene (PCE)	ND	0.221	D	mg/Kg-dry	10	6/18/2019 4:06:56 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/18/2019 4:06:56 PM
Surr: Toluene-d8	113	64.5 - 151	D	%Rec	10	6/18/2019 4:06:56 PM
Surr: 1-Bromo-4-fluorobenzene	84.0	54.8 - 168	D	%Rec	10	6/18/2019 4:06:56 PM

Sample Moisture (Percent Moisture)

Batch ID: R52136 Analyst: PA

Percent Moisture	14.7	0.500	wt%	1	6/18/2019 11:44:29 AM
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Lab ID: 1906210-002

Client Sample ID: 03-30-201-29.5

Collection Date: 6/18/2019 8:18:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24952		Analyst: KT
Vinyl chloride	ND	0.290	D	mg/Kg-dry	10	6/18/2019 5:08:50 PM
cis-1,2-Dichloroethene	ND	0.232	D	mg/Kg-dry	10	6/18/2019 5:08:50 PM
Trichloroethene (TCE)	ND	0.232	D	mg/Kg-dry	10	6/18/2019 5:08:50 PM
Tetrachloroethene (PCE)	ND	0.290	D	mg/Kg-dry	10	6/18/2019 5:08:50 PM
Surr: Dibromofluoromethane	98.8	56.5 - 129	D	%Rec	10	6/18/2019 5:08:50 PM
Surr: Toluene-d8	115	64.5 - 151	D	%Rec	10	6/18/2019 5:08:50 PM
Surr: 1-Bromo-4-fluorobenzene	93.0	54.8 - 168	D	%Rec	10	6/18/2019 5:08:50 PM

Sample Moisture (Percent Moisture)

Batch ID: R52136 Analyst: PA

Percent Moisture	15.1	0.500	wt%	1	6/18/2019 11:44:29 AM
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Analytical Report

Work Order: 1906210

Date Reported: 6/19/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906210-003

Client Sample ID: 03-31.5-202-30

Collection Date: 6/18/2019 8:03:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24952

Analyst: KT

Vinyl chloride	ND	0.259	D	mg/Kg-dry	10	6/18/2019 5:39:52 PM
cis-1,2-Dichloroethene	ND	0.208	D	mg/Kg-dry	10	6/18/2019 5:39:52 PM
Trichloroethene (TCE)	ND	0.208	D	mg/Kg-dry	10	6/18/2019 5:39:52 PM
Tetrachloroethene (PCE)	ND	0.259	D	mg/Kg-dry	10	6/18/2019 5:39:52 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/18/2019 5:39:52 PM
Surr: Toluene-d8	109	64.5 - 151	D	%Rec	10	6/18/2019 5:39:52 PM
Surr: 1-Bromo-4-fluorobenzene	91.7	54.8 - 168	D	%Rec	10	6/18/2019 5:39:52 PM

Sample Moisture (Percent Moisture)

Batch ID: R52136

Analyst: PA

Percent Moisture	15.3	0.500	wt%	1	6/18/2019 11:44:29 AM
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Lab ID: 1906210-004

Client Sample ID: 03-31.5-203-30

Collection Date: 6/18/2019 8:10:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24952

Analyst: KT

Vinyl chloride	ND	0.244	D	mg/Kg-dry	10	6/18/2019 6:10:48 PM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	6/18/2019 6:10:48 PM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	6/18/2019 6:10:48 PM
Tetrachloroethene (PCE)	ND	0.244	D	mg/Kg-dry	10	6/18/2019 6:10:48 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/18/2019 6:10:48 PM
Surr: Toluene-d8	113	64.5 - 151	D	%Rec	10	6/18/2019 6:10:48 PM
Surr: 1-Bromo-4-fluorobenzene	91.4	54.8 - 168	D	%Rec	10	6/18/2019 6:10:48 PM

Sample Moisture (Percent Moisture)

Batch ID: R52136

Analyst: PA

Percent Moisture	13.6	0.500	wt%	1	6/18/2019 11:44:29 AM
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Analytical Report

Work Order: 1906210

Date Reported: 6/19/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906210-005

Client Sample ID: 04-25-107-24

Collection Date: 6/18/2019 9:53:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24952		Analyst: KT
Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	6/18/2019 6:41:46 PM
cis-1,2-Dichloroethene	ND	0.187	D	mg/Kg-dry	10	6/18/2019 6:41:46 PM
Trichloroethene (TCE)	ND	0.187	D	mg/Kg-dry	10	6/18/2019 6:41:46 PM
Tetrachloroethene (PCE)	0.142	0.234	DJ	mg/Kg-dry	10	6/18/2019 6:41:46 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/18/2019 6:41:46 PM
Surr: Toluene-d8	111	64.5 - 151	D	%Rec	10	6/18/2019 6:41:46 PM
Surr: 1-Bromo-4-fluorobenzene	92.5	54.8 - 168	D	%Rec	10	6/18/2019 6:41:46 PM

Sample Moisture (Percent Moisture)

Batch ID: R52136 Analyst: PA

Percent Moisture	9.89	0.500	wt%	1	6/18/2019 11:44:29 AM
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Lab ID: 1906210-006

Client Sample ID: 04-25-108-24

Collection Date: 6/18/2019 9:58:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24952		Analyst: KT
Vinyl chloride	ND	0.252	D	mg/Kg-dry	10	6/18/2019 7:12:42 PM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	6/18/2019 7:12:42 PM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	6/18/2019 7:12:42 PM
Tetrachloroethene (PCE)	3.18	0.252	D	mg/Kg-dry	10	6/18/2019 7:12:42 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/18/2019 7:12:42 PM
Surr: Toluene-d8	114	64.5 - 151	D	%Rec	10	6/18/2019 7:12:42 PM
Surr: 1-Bromo-4-fluorobenzene	92.2	54.8 - 168	D	%Rec	10	6/18/2019 7:12:42 PM

Sample Moisture (Percent Moisture)

Batch ID: R52136 Analyst: PA

Percent Moisture	9.95	0.500	wt%	1	6/18/2019 11:44:29 AM
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Analytical Report

Work Order: 1906210

Date Reported: 6/19/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906210-007

Client Sample ID: 04-25-109-24

Collection Date: 6/18/2019 10:02:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24952		Analyst: KT
Vinyl chloride	ND	0.268	D	mg/Kg-dry	10	6/18/2019 7:43:39 PM
cis-1,2-Dichloroethene	0.107	0.214	DJ	mg/Kg-dry	10	6/18/2019 7:43:39 PM
Trichloroethene (TCE)	ND	0.214	D	mg/Kg-dry	10	6/18/2019 7:43:39 PM
Tetrachloroethene (PCE)	3.38	0.268	D	mg/Kg-dry	10	6/18/2019 7:43:39 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/18/2019 7:43:39 PM
Surr: Toluene-d8	107	64.5 - 151	D	%Rec	10	6/18/2019 7:43:39 PM
Surr: 1-Bromo-4-fluorobenzene	90.6	54.8 - 168	D	%Rec	10	6/18/2019 7:43:39 PM

Sample Moisture (Percent Moisture)

Batch ID: R52136 Analyst: PA

Percent Moisture	14.8	0.500	wt%	1	6/18/2019 11:44:29 AM
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Lab ID: 1906210-008

Client Sample ID: B-948-24

Collection Date: 6/18/2019 10:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24952		Analyst: KT
Vinyl chloride	ND	0.256	D	mg/Kg-dry	10	6/18/2019 8:14:35 PM
cis-1,2-Dichloroethene	0.146	0.205	DJ	mg/Kg-dry	10	6/18/2019 8:14:35 PM
Trichloroethene (TCE)	ND	0.205	D	mg/Kg-dry	10	6/18/2019 8:14:35 PM
Tetrachloroethene (PCE)	3.45	0.256	D	mg/Kg-dry	10	6/18/2019 8:14:35 PM
Surr: Dibromofluoromethane	99.7	56.5 - 129	D	%Rec	10	6/18/2019 8:14:35 PM
Surr: Toluene-d8	116	64.5 - 151	D	%Rec	10	6/18/2019 8:14:35 PM
Surr: 1-Bromo-4-fluorobenzene	91.9	54.8 - 168	D	%Rec	10	6/18/2019 8:14:35 PM

Sample Moisture (Percent Moisture)

Batch ID: R52136 Analyst: PA

Percent Moisture	13.5	0.500	wt%	1	6/18/2019 11:44:29 AM
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Work Order: 1906210

Date Reported: 6/19/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906210-009

Collection Date: 6/5/2019 4:06:00 PM

Client Sample ID: TB-061819

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24952

Analyst: KT

Vinyl chloride	ND	0.0250	mg/Kg	1	6/18/2019 3:36:00 PM
cis-1,2-Dichloroethene	ND	0.0200	mg/Kg	1	6/18/2019 3:36:00 PM
Trichloroethene (TCE)	ND	0.0200	mg/Kg	1	6/18/2019 3:36:00 PM
Tetrachloroethene (PCE)	ND	0.0250	mg/Kg	1	6/18/2019 3:36:00 PM
Surr: Dibromofluoromethane	102	56.5 - 129	%Rec	1	6/18/2019 3:36:00 PM
Surr: Toluene-d8	105	64.5 - 151	%Rec	1	6/18/2019 3:36:00 PM
Surr: 1-Bromo-4-fluorobenzene	85.3	54.8 - 168	%Rec	1	6/18/2019 3:36:00 PM

Work Order: 1906210
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-24952	SampType: LCS	Units: mg/Kg				Prep Date: 6/18/2019			RunNo: 52155		
Client ID: LCSS	Batch ID: 24952	Analysis Date: 6/18/2019							SeqNo: 1029795		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.01	0.0250	1.000	0	101	43.4	151				
cis-1,2-Dichloroethene	1.03	0.0200	1.000	0	103	71.3	135				
Trichloroethene (TCE)	1.14	0.0200	1.000	0	114	65.5	137				
Tetrachloroethene (PCE)	1.19	0.0250	1.000	0	119	52.7	150				
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.47		1.250		117	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.31		1.250		105	54.8	168				

Sample ID: LCSD-24952	SampType: LCSD	Units: mg/Kg				Prep Date: 6/18/2019			RunNo: 52155		
Client ID: LCSS02	Batch ID: 24952	Analysis Date: 6/18/2019							SeqNo: 1029796		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.985	0.0250	1.000	0	98.5	43.4	151	1.008	2.31	20	
cis-1,2-Dichloroethene	0.969	0.0200	1.000	0	96.9	71.6	123	1.025	5.63	20	
Trichloroethene (TCE)	1.11	0.0200	1.000	0	111	65.5	137	1.143	2.99	20	
Tetrachloroethene (PCE)	1.17	0.0250	1.000	0	117	52.7	150	1.190	1.55	20	
Surr: Dibromofluoromethane	1.23		1.250		98.5	56.5	129		0		
Surr: Toluene-d8	1.47		1.250		117	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		94.8	54.8	168		0		

Sample ID: MB-24952	SampType: MBLK	Units: mg/Kg			Prep Date: 6/18/2019			RunNo: 52155			
Client ID: MBLKS	Batch ID: 24952				Analysis Date: 6/18/2019			SeqNo: 1029797			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.29		1.250		104	56.5	129				
Surr: Toluene-d8	1.41		1.250		113	64.5	151				

Work Order: 1906210
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-24952		SampType: MBLK		Units: mg/Kg		Prep Date: 6/18/2019		RunNo: 52155			
Client ID: MBLKS		Batch ID: 24952				Analysis Date: 6/18/2019		SeqNo: 1029797			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	1.13		1.250		90.2	54.8	168				

Sample ID: 1906210-001BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 6/18/2019			RunNo: 52155		
Client ID: 03-30-200-29.5	Batch ID: 24952	Analysis Date: 6/18/2019							SeqNo: 1029784		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.221						0	0	30	D
cis-1,2-Dichloroethene	ND	0.177						0	0	30	D
Trichloroethene (TCE)	ND	0.177						0	0	30	D
Tetrachloroethene (PCE)	ND	0.221						0	0	30	D
Surr: Dibromofluoromethane	11.3		11.07		102	56.5	129		0		D
Surr: Toluene-d8	12.3		11.07		111	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.1		11.07		91.2	54.8	168		0		D



Work Order: 1906210
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1906210-008ADUP		SampType: DUP		Units: wt%		Prep Date: 6/18/2019			RunNo: 52136			
Client ID: B-948-24		Batch ID: R52136					Analysis Date: 6/18/2019			SeqNo: 1029423		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	12.9	0.500						13.53	4.52	20		

Client Name: **PES**

Work Order Number: **1906210**

Logged by: **Clare Griggs**

Date Received: **6/18/2019 11:04:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

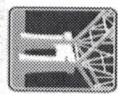
Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	9.5
Sample	9.1

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



Fremont

Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6-18-19

Page: 1 of 1

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: R. MCLAUGHLIN / K. ZYGAS

Location: SEATTLE WA

Report To (PM): B. DUNEAL

PM Email: BOUNEAL@PESENV.COM

Laboratory Project No (Internal): 1906210

Special Remarks:

SELECT LIST: PCE, TCE, VC
CIS-12

ASAP TAT (WED AM)

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL
Address: 1215 4th AVE STE 1350
City, State, Zip: SEATTLE WA 98161
Telephone: 206 529 3980
Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHI)	SVOs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 03-30-200-29.5	6-18-19	0815	S	X													} HAVE BEEN TREATED w/ KMNO4
2 03-30-201-29.5		0818															
3 03-31.5-202-30		0803															
4 03-31.5-203-30		0810															
5 04-25-107-24		0953															
6 04-25-108-24		0958															
7 04-25-109-24		1002															
8 B-948-24	X	1130	X														
9 TB-061819	6/5/19	1606	-	X													
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time	Turn-around Time:
X	6/18/19 1104	X	6-18-19 1104	☐ Standard
X		X		☐ 3 Day
X		X		☐ 2 Day
X		X		☒ Next Day
X		X		Same Day (Specify)



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
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info@fremontanalytical.com

PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1906225

June 19, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 1 sample(s) on 6/19/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:

Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1906225

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906225-001	04-27-200-26	06/19/2019 8:25 AM	06/19/2019 9:30 AM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1906225
Date Reported: 6/19/2019

Client: PES Environmental, Inc.

Collection Date: 6/19/2019 8:25:00 AM

Project: American Linen

Lab ID: 1906225-001

Matrix: Soil

Client Sample ID: 04-27-200-26

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 24962

Analyst: CR

Vinyl chloride	ND	0.270	D	mg/Kg-dry	10	6/19/2019 1:46:41 PM
cis-1,2-Dichloroethene	ND	0.216	D	mg/Kg-dry	10	6/19/2019 1:46:41 PM
Trichloroethene (TCE)	ND	0.216	D	mg/Kg-dry	10	6/19/2019 1:46:41 PM
Tetrachloroethene (PCE)	0.697	0.270	D	mg/Kg-dry	10	6/19/2019 1:46:41 PM
Surr: Dibromofluoromethane	98.9	56.5 - 129	D	%Rec	10	6/19/2019 1:46:41 PM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	6/19/2019 1:46:41 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	6/19/2019 1:46:41 PM

Sample Moisture (Percent Moisture)

Batch ID: R52159

Analyst: SBM

Percent Moisture	27.3	0.500		wt%	1	6/19/2019 8:28:43 AM
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Work Order: 1906225
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-24962	SampType: LCS	Units: mg/Kg				Prep Date: 6/19/2019			RunNo: 52177		
Client ID: LCSS	Batch ID: 24962	Analysis Date: 6/19/2019							SeqNo: 1030213		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.957	0.0250	1.000	0	95.7	43.4	151				
cis-1,2-Dichloroethene	0.986	0.0200	1.000	0	98.6	71.3	135				
Trichloroethene (TCE)	1.00	0.0200	1.000	0	100	65.5	137				
Tetrachloroethene (PCE)	0.998	0.0250	1.000	0	99.8	52.7	150				
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.26		1.250		100	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	54.8	168				

Sample ID: LCSD-24962	SampType: LCSD	Units: mg/Kg				Prep Date: 6/19/2019			RunNo: 52177		
Client ID: LCSS02	Batch ID: 24962	Analysis Date: 6/19/2019							SeqNo: 1030214		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.937	0.0250	1.000	0	93.7	43.4	151	0.9574	2.14	20	
cis-1,2-Dichloroethene	0.987	0.0200	1.000	0	98.7	71.6	123	0.9858	0.127	20	
Trichloroethene (TCE)	0.999	0.0200	1.000	0	99.9	65.5	137	1.004	0.424	20	
Tetrachloroethene (PCE)	0.989	0.0250	1.000	0	98.9	52.7	150	0.9982	0.950	20	
Surr: Dibromofluoromethane	1.30		1.250		104	56.5	129		0		
Surr: Toluene-d8	1.26		1.250		101	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		102	54.8	168		0		

Sample ID: MB-24962	SampType: MBLK	Units: mg/Kg				Prep Date: 6/19/2019			RunNo: 52177		
Client ID: MBLKS	Batch ID: 24962					Analysis Date: 6/19/2019			SeqNo: 1030215		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.16		1.250		93.1	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.6	64.5	151				

Work Order: 1906225
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-24962		SampType: MBLK		Units: mg/Kg		Prep Date: 6/19/2019		RunNo: 52177			
Client ID: MBLKS		Batch ID: 24962				Analysis Date: 6/19/2019		SeqNo: 1030215			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.5	54.8	168				

Sample ID: 1906225-001BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 6/19/2019			RunNo: 52177		
Client ID: 04-27-200-26	Batch ID: 24962					Analysis Date: 6/19/2019			SeqNo: 1030211		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.270						0	0	30	D
cis-1,2-Dichloroethene	ND	0.216						0	0	30	D
Trichloroethene (TCE)	ND	0.216						0	0	30	D
Tetrachloroethene (PCE)	0.816	0.270						0.6972	15.6	30	D
Surr: Dibromofluoromethane	13.1		13.52		97.2	56.5	129		0		D
Surr: Toluene-d8	13.3		13.52		98.7	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.4		13.52		99.4	54.8	168		0		D

Work Order: 1906225
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1906205-026ADUP		SampType: DUP			Units: wt%		Prep Date: 6/19/2019			RunNo: 52159		
Client ID: BATCH		Batch ID: R52159			Analysis Date: 6/19/2019			SeqNo: 1029848				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	11.1	0.500						12.06	8.21	20		

Sample ID: 1906205-037ADUP		SampType: DUP			Units: wt%		Prep Date: 6/19/2019			RunNo: 52159		
Client ID: BATCH		Batch ID: R52159			Analysis Date: 6/19/2019			SeqNo: 1029860				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	14.2	0.500						12.55	12.5	20		

Client Name: **PES**

Work Order Number: **1906225**

Logged by: **Clare Griggs**

Date Received: **6/19/2019 9:30:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐

Samples received straight from field.

7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☐ No ☐ NA ☒
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

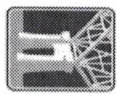
Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Cooler	2.6
Sample	13.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/19/19 Page: 1 of 1

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: K. ZYGAS

Location: SEATTLE, WA

Report To (PM): B. ONEAL

PM Email: BONEAL@PESENU.COM

KUIK@PESENU.COM

Laboratory Project No (Internal): 1906225

Special Remarks: SELECT LIST: PCE, TCE, VC, CIS-1, 2 PCE

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL, INC
Address: 1215 4th Ave, Ste 1350
City, State Zip: SEATTLE, WA 98161
Telephone: 206-529-3980
Fax: 206-529-3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
-------------	-------------	-------------	-----------------------	-----------------------	---------	------	------------------------------	-----------------------------------	--------------------------------------	------------------------	-----------------------	-----------------------	-----------------------------	---------------------------	----------------	------------	----------

1 04-27-200-26 6/19/19 0825 S X

2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time	Turn-around Time:
<u>Relinquished</u>	<u>6/19/19</u>	<u>6/19/19</u>	<u>0930</u>	☐ Standard
<u>Relinquished</u>	<u>6/19/19</u>	<u>6/19/19</u>	<u>0930</u>	☐ 3 Day
<u>Relinquished</u>	<u>6/19/19</u>	<u>6/19/19</u>	<u>0930</u>	☐ 2 Day
<u>Relinquished</u>	<u>6/19/19</u>	<u>6/19/19</u>	<u>0930</u>	☐ Next Day
<u>Relinquished</u>	<u>6/19/19</u>	<u>6/19/19</u>	<u>0930</u>	☐ Same Day (Specify)



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Karsten Springstead
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1906274

June 21, 2019

Attention Karsten Springstead:

Fremont Analytical, Inc. received 4 sample(s) on 6/21/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1906274

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906274-001	04-25-200-25	06/21/2019 8:48 AM	06/21/2019 9:34 AM
1906274-002	04-25-201-25	06/21/2019 8:52 AM	06/21/2019 9:34 AM
1906274-003	B-949-25	06/21/2019 9:10 AM	06/21/2019 9:34 AM
1906274-004	TB-062119	06/21/2019 9:12 AM	06/21/2019 9:34 AM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1906274

Date Reported: 6/21/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906274-001

Client Sample ID: 04-25-200-25

Collection Date: 6/21/2019 8:48:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24991		Analyst: CR
Vinyl chloride	ND	0.210	D	mg/Kg-dry	10	6/21/2019 12:20:41 PM
cis-1,2-Dichloroethene	ND	0.168	D	mg/Kg-dry	10	6/21/2019 12:20:41 PM
Trichloroethene (TCE)	ND	0.168	D	mg/Kg-dry	10	6/21/2019 12:20:41 PM
Tetrachloroethene (PCE)	0.0905	0.210	DJ	mg/Kg-dry	10	6/21/2019 12:20:41 PM
Surr: Dibromofluoromethane	97.7	56.5 - 129	D	%Rec	10	6/21/2019 12:20:41 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/21/2019 12:20:41 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168	D	%Rec	10	6/21/2019 12:20:41 PM

Sample Moisture (Percent Moisture)

Batch ID: R52216 Analyst: PA

Percent Moisture	12.2	0.500	wt%	1	6/21/2019 9:20:35 AM
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Lab ID: 1906274-002

Client Sample ID: 04-25-201-25

Collection Date: 6/21/2019 8:52:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24991		Analyst: CR
Vinyl chloride	ND	0.227	D	mg/Kg-dry	10	6/21/2019 12:50:49 PM
cis-1,2-Dichloroethene	ND	0.181	D	mg/Kg-dry	10	6/21/2019 12:50:49 PM
Trichloroethene (TCE)	ND	0.181	D	mg/Kg-dry	10	6/21/2019 12:50:49 PM
Tetrachloroethene (PCE)	0.0824	0.227	DJ	mg/Kg-dry	10	6/21/2019 12:50:49 PM
Surr: Dibromofluoromethane	97.7	56.5 - 129	D	%Rec	10	6/21/2019 12:50:49 PM
Surr: Toluene-d8	99.8	64.5 - 151	D	%Rec	10	6/21/2019 12:50:49 PM
Surr: 1-Bromo-4-fluorobenzene	98.0	54.8 - 168	D	%Rec	10	6/21/2019 12:50:49 PM

Sample Moisture (Percent Moisture)

Batch ID: R52216 Analyst: PA

Percent Moisture	12.9	0.500	wt%	1	6/21/2019 9:20:35 AM
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Analytical Report

Work Order: 1906274

Date Reported: 6/21/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906274-003

Client Sample ID: B-949-25

Collection Date: 6/21/2019 9:10:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24991		Analyst: CR
Vinyl chloride	ND	0.228	D	mg/Kg-dry	10	6/21/2019 1:20:56 PM
cis-1,2-Dichloroethene	ND	0.182	D	mg/Kg-dry	10	6/21/2019 1:20:56 PM
Trichloroethene (TCE)	ND	0.182	D	mg/Kg-dry	10	6/21/2019 1:20:56 PM
Tetrachloroethene (PCE)	ND	0.228	D	mg/Kg-dry	10	6/21/2019 1:20:56 PM
Surr: Dibromofluoromethane	98.0	56.5 - 129	D	%Rec	10	6/21/2019 1:20:56 PM
Surr: Toluene-d8	99.8	64.5 - 151	D	%Rec	10	6/21/2019 1:20:56 PM
Surr: 1-Bromo-4-fluorobenzene	98.4	54.8 - 168	D	%Rec	10	6/21/2019 1:20:56 PM

Sample Moisture (Percent Moisture)

Batch ID: R52216 Analyst: PA

Percent Moisture	12.4	0.500	wt%	1	6/21/2019 9:20:35 AM
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Lab ID: 1906274-004

Client Sample ID: TB-062119

Collection Date: 6/21/2019 9:12:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 24991		Analyst: CR
Vinyl chloride	ND	0.0250		mg/Kg	1	6/21/2019 11:50:32 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	6/21/2019 11:50:32 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	6/21/2019 11:50:32 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	6/21/2019 11:50:32 AM
Surr: Dibromofluoromethane	95.5	56.5 - 129		%Rec	1	6/21/2019 11:50:32 AM
Surr: Toluene-d8	100	64.5 - 151		%Rec	1	6/21/2019 11:50:32 AM
Surr: 1-Bromo-4-fluorobenzene	96.7	54.8 - 168		%Rec	1	6/21/2019 11:50:32 AM



Date: 6/21/2019

Work Order: 1906274
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260D**

Sample ID: LCS-24991	SampType: LCS	Units: mg/Kg				Prep Date: 6/21/2019			RunNo: 52226		
Client ID: LCSS	Batch ID: 24991	Analysis Date: 6/21/2019							SeqNo: 1031302		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.15	0.0250	1.000	0	115	43.4	151				
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	71.3	135				
Trichloroethene (TCE)	1.05	0.0200	1.000	0	105	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.33		1.250		106	56.5	129				
Surr: Toluene-d8	1.28		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	54.8	168				

Sample ID: LCSD-24991	SampType: LCSD	Units: mg/Kg				Prep Date: 6/21/2019			RunNo: 52226		
Client ID: LCSS02	Batch ID: 24991	Analysis Date: 6/21/2019							SeqNo: 1031303		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.08	0.0250	1.000	0	108	43.4	151	1.154	6.26	20	
cis-1,2-Dichloroethene	1.02	0.0200	1.000	0	102	71.6	123	1.044	2.51	20	
Trichloroethene (TCE)	1.01	0.0200	1.000	0	101	65.5	137	1.050	4.31	20	
Tetrachloroethene (PCE)	1.03	0.0250	1.000	0	103	52.7	150	1.065	3.04	20	
Surr: Dibromofluoromethane	1.33		1.250		106	56.5	129		0		
Surr: Toluene-d8	1.28		1.250		103	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168		0		

Sample ID: MB-24991	SampType: MBLK	Units: mg/Kg				Prep Date: 6/21/2019				RunNo: 52226		
Client ID: MBLKS	Batch ID: 24991					Analysis Date: 6/21/2019				SeqNo: 1031304		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Vinyl chloride	ND	0.0250										
cis-1,2-Dichloroethene	ND	0.0200										
Trichloroethene (TCE)	ND	0.0200										
Tetrachloroethene (PCE)	ND	0.0250										
Surr: Dibromofluoromethane	1.18		1.250		94.0	56.5	129					
Surr: Toluene-d8	1.27		1.250		101	64.5	151					

Work Order: 1906274
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-24991		SampType: MBLK		Units: mg/Kg		Prep Date: 6/21/2019		RunNo: 52226			
Client ID: MBLKS		Batch ID: 24991				Analysis Date: 6/21/2019		SeqNo: 1031304			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.3	54.8	168				

Sample ID: 1906274-003BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 6/21/2019			RunNo: 52226		
Client ID: B-949-25	Batch ID: 24991	Analysis Date: 6/21/2019							SeqNo: 1031298		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.228						0	0	30	D
cis-1,2-Dichloroethene	ND	0.182						0	0	30	D
Trichloroethene (TCE)	ND	0.182						0	0	30	D
Tetrachloroethene (PCE)	ND	0.228						0	0	30	D
Surr: Dibromofluoromethane	11.0		11.38		96.4	56.5	129		0		D
Surr: Toluene-d8	11.4		11.38		100	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.1		11.38		97.3	54.8	168		0		D



Date: 6/21/2019

Work Order: 1906274
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT
Sample Moisture (Percent Moisture)

Sample ID: 1906274-003ADUP		SampType: DUP		Units: wt%		Prep Date: 6/21/2019			RunNo: 52216		
Client ID: B-949-25		Batch ID: R52216				Analysis Date: 6/21/2019			SeqNo: 1031012		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	12.6	0.500						12.36	1.63	20	

Sample ID: 1906268-006BDUP		SampType: DUP			Units: wt%		Prep Date: 6/21/2019			RunNo: 52216		
Client ID: BATCH		Batch ID: R52216			Analysis Date: 6/21/2019			SeqNo: 1031019				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	10.3	0.500						11.01	6.44	20		

Client Name: **PES**

Work Order Number: **1906274**

Logged by: **Clare Griggs**

Date Received: **6/21/2019 9:34:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	6.1
Sample	8.6
Temp Blank	3.8

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



Fremont

ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/21/19 Page: 1 of 1

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: RTM/KSR

Location: SEATTLE WA

Report To (PM): K. SPRINGSTEAD/K. VIK

PM Email: KSPRINGSTEAD@PESEN.V.COM

KVIK@PESEN.V.COM

Laboratory Project No (Internal): 1900234

Special Remarks:

ASAP TAT - MONDAY AM
SELECT LIST: PCB, TCE,
CIS-1,2, V.C.

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENT

Address: 1215 4th AVE STE 1350

City, State, Zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
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Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba-Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Se Sr Sn Ti Tl U V Zn

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished

Date/Time

6/21/19

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Received

Date/Time



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Karsten Springstead
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1906316

June 26, 2019

Attention Karsten Springstead:

Fremont Analytical, Inc. received 24 sample(s) on 6/25/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Brian O'Neal
Dan Balbiani
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1906316

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906316-001	02-23-103-22	06/25/2019 10:41 AM	06/25/2019 2:09 PM
1906316-002	02-23-104-22	06/25/2019 10:58 AM	06/25/2019 2:09 PM
1906316-003	02-23-105-22	06/25/2019 11:12 AM	06/25/2019 2:09 PM
1906316-004	02-23-106-22	06/25/2019 11:23 AM	06/25/2019 2:09 PM
1906316-005	02-23-100-22	06/25/2019 11:41 AM	06/25/2019 2:09 PM
1906316-006	02-23-101-22	06/25/2019 12:00 PM	06/25/2019 2:09 PM
1906316-007	02-23-102-22	06/25/2019 12:22 PM	06/25/2019 2:09 PM
1906316-008	02-21-100-20	06/25/2019 11:44 AM	06/25/2019 2:09 PM
1906316-009	02-19-100-18	06/25/2019 11:49 AM	06/25/2019 2:09 PM
1906316-010	02-21-101-20	06/25/2019 12:03 PM	06/25/2019 2:09 PM
1906316-011	02-19-101-18.5	06/25/2019 12:08 PM	06/25/2019 2:09 PM
1906316-012	02-21-102-20	06/25/2019 12:25 PM	06/25/2019 2:09 PM
1906316-013	02-19-102-18	06/25/2019 12:30 PM	06/25/2019 2:09 PM
1906316-014	02-21-103-20	06/25/2019 10:45 AM	06/25/2019 2:09 PM
1906316-015	02-19-103-18	06/25/2019 10:52 AM	06/25/2019 2:09 PM
1906316-016	02-21-104-20	06/25/2019 11:03 AM	06/25/2019 2:09 PM
1906316-017	02-19-104-18	06/25/2019 11:06 AM	06/25/2019 2:09 PM
1906316-018	02-21-105-20	06/25/2019 11:15 AM	06/25/2019 2:09 PM
1906316-019	02-19-105-18	06/25/2019 11:18 AM	06/25/2019 2:09 PM
1906316-020	02-21-106-20	06/25/2019 11:28 AM	06/25/2019 2:09 PM
1906316-021	02-19-106-18	06/25/2019 11:32 AM	06/25/2019 2:09 PM
1906316-022	B-951-18	06/25/2019 1:05 PM	06/25/2019 2:09 PM
1906316-023	04-24-200-23	06/25/2019 7:55 AM	06/25/2019 2:09 PM
1906316-024	04-24-201-23.5	06/25/2019 8:00 AM	06/25/2019 2:09 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-001

Client Sample ID: 02-23-103-22

Collection Date: 6/25/2019 10:41:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25026

Analyst: CR

Vinyl chloride	ND	0.237	D	mg/Kg-dry	10	6/25/2019 4:56:48 PM
cis-1,2-Dichloroethene	0.443	0.190	D	mg/Kg-dry	10	6/25/2019 4:56:48 PM
Trichloroethene (TCE)	ND	0.190	D	mg/Kg-dry	10	6/25/2019 4:56:48 PM
Tetrachloroethene (PCE)	ND	0.237	D	mg/Kg-dry	10	6/25/2019 4:56:48 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 4:56:48 PM
Surr: Toluene-d8	108	64.5 - 151	D	%Rec	10	6/25/2019 4:56:48 PM
Surr: 1-Bromo-4-fluorobenzene	90.6	54.8 - 168	D	%Rec	10	6/25/2019 4:56:48 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	13.0	0.500		wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-002

Client Sample ID: 02-23-104-22

Collection Date: 6/25/2019 10:58:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25026

Analyst: CR

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	6/25/2019 5:28:21 PM
cis-1,2-Dichloroethene	0.120	0.201	DJ	mg/Kg-dry	10	6/25/2019 5:28:21 PM
Trichloroethene (TCE)	0.139	0.201	DJ	mg/Kg-dry	10	6/25/2019 5:28:21 PM
Tetrachloroethene (PCE)	0.751	0.251	D	mg/Kg-dry	10	6/25/2019 5:28:21 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 5:28:21 PM
Surr: Toluene-d8	99.3	64.5 - 151	D	%Rec	10	6/25/2019 5:28:21 PM
Surr: 1-Bromo-4-fluorobenzene	90.6	54.8 - 168	D	%Rec	10	6/25/2019 5:28:21 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	13.7	0.500		wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-003

Client Sample ID: 02-23-105-22

Collection Date: 6/25/2019 11:12:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25026

Analyst: CR

Vinyl chloride	ND	0.252	D	mg/Kg-dry	10	6/25/2019 5:59:53 PM
cis-1,2-Dichloroethene	0.254	0.201	D	mg/Kg-dry	10	6/25/2019 5:59:53 PM
Trichloroethene (TCE)	0.154	0.201	DJ	mg/Kg-dry	10	6/25/2019 5:59:53 PM
Tetrachloroethene (PCE)	3.44	0.252	D	mg/Kg-dry	10	6/25/2019 5:59:53 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 5:59:53 PM
Surr: Toluene-d8	110	64.5 - 151	D	%Rec	10	6/25/2019 5:59:53 PM
Surr: 1-Bromo-4-fluorobenzene	90.1	54.8 - 168	D	%Rec	10	6/25/2019 5:59:53 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	17.3	0.500		wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-004

Client Sample ID: 02-23-106-22

Collection Date: 6/25/2019 11:23:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25026

Analyst: CR

Vinyl chloride	ND	0.217	D	mg/Kg-dry	10	6/25/2019 6:31:14 PM
cis-1,2-Dichloroethene	ND	0.174	D	mg/Kg-dry	10	6/25/2019 6:31:14 PM
Trichloroethene (TCE)	ND	0.174	D	mg/Kg-dry	10	6/25/2019 6:31:14 PM
Tetrachloroethene (PCE)	0.590	0.217	D	mg/Kg-dry	10	6/25/2019 6:31:14 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/25/2019 6:31:14 PM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	6/25/2019 6:31:14 PM
Surr: 1-Bromo-4-fluorobenzene	90.8	54.8 - 168	D	%Rec	10	6/25/2019 6:31:14 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	17.1	0.500		wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-005

Client Sample ID: 02-23-100-22

Collection Date: 6/25/2019 11:41:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25031		Analyst: KT
Vinyl chloride	ND	0.228	D	mg/Kg-dry	10	6/25/2019 6:53:28 PM
cis-1,2-Dichloroethene	0.548	0.183	D	mg/Kg-dry	10	6/25/2019 6:53:28 PM
Trichloroethene (TCE)	0.130	0.183	DJ	mg/Kg-dry	10	6/25/2019 6:53:28 PM
Tetrachloroethene (PCE)	0.923	0.228	D	mg/Kg-dry	10	6/25/2019 6:53:28 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/25/2019 6:53:28 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/25/2019 6:53:28 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	54.8 - 168	D	%Rec	10	6/25/2019 6:53:28 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295 Analyst: PA

Percent Moisture	11.7	0.500	wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-006

Client Sample ID: 02-23-101-22

Collection Date: 6/25/2019 12:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25031		Analyst: KT
Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	6/25/2019 7:23:36 PM
cis-1,2-Dichloroethene	1.25	0.184	D	mg/Kg-dry	10	6/25/2019 7:23:36 PM
Trichloroethene (TCE)	0.425	0.184	D	mg/Kg-dry	10	6/25/2019 7:23:36 PM
Tetrachloroethene (PCE)	14.6	0.230	D	mg/Kg-dry	10	6/25/2019 7:23:36 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/25/2019 7:23:36 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/25/2019 7:23:36 PM
Surr: 1-Bromo-4-fluorobenzene	98.3	54.8 - 168	D	%Rec	10	6/25/2019 7:23:36 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295 Analyst: PA

Percent Moisture	11.5	0.500	wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-007

Client Sample ID: 02-23-102-22

Collection Date: 6/25/2019 12:22:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.235	D	mg/Kg-dry	10	6/25/2019 7:53:45 PM
cis-1,2-Dichloroethene	0.264	0.188	D	mg/Kg-dry	10	6/25/2019 7:53:45 PM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	6/25/2019 7:53:45 PM
Tetrachloroethene (PCE)	1.28	0.235	D	mg/Kg-dry	10	6/25/2019 7:53:45 PM
Surr: Dibromofluoromethane	99.9	56.5 - 129	D	%Rec	10	6/25/2019 7:53:45 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 7:53:45 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	54.8 - 168	D	%Rec	10	6/25/2019 7:53:45 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	11.9	0.500		wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-008

Client Sample ID: 02-21-100-20

Collection Date: 6/25/2019 11:44:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	6/25/2019 8:23:54 PM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	6/25/2019 8:23:54 PM
Trichloroethene (TCE)	ND	0.184	D	mg/Kg-dry	10	6/25/2019 8:23:54 PM
Tetrachloroethene (PCE)	0.179	0.230	DJ	mg/Kg-dry	10	6/25/2019 8:23:54 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 8:23:54 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/25/2019 8:23:54 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	54.8 - 168	D	%Rec	10	6/25/2019 8:23:54 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	13.2	0.500		wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-009

Client Sample ID: 02-19-100-18

Collection Date: 6/25/2019 11:49:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.232	D	mg/Kg-dry	10	6/25/2019 8:54:03 PM
cis-1,2-Dichloroethene	ND	0.185	D	mg/Kg-dry	10	6/25/2019 8:54:03 PM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	6/25/2019 8:54:03 PM
Tetrachloroethene (PCE)	0.177	0.232	DJ	mg/Kg-dry	10	6/25/2019 8:54:03 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 8:54:03 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/25/2019 8:54:03 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	54.8 - 168	D	%Rec	10	6/25/2019 8:54:03 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	12.5	0.500		wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-010

Client Sample ID: 02-21-101-20

Collection Date: 6/25/2019 12:03:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.237	D	mg/Kg-dry	10	6/25/2019 9:24:13 PM
cis-1,2-Dichloroethene	0.689	0.190	D	mg/Kg-dry	10	6/25/2019 9:24:13 PM
Trichloroethene (TCE)	0.357	0.190	D	mg/Kg-dry	10	6/25/2019 9:24:13 PM
Tetrachloroethene (PCE)	9.74	0.237	D	mg/Kg-dry	10	6/25/2019 9:24:13 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 9:24:13 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 9:24:13 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	54.8 - 168	D	%Rec	10	6/25/2019 9:24:13 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	11.8	0.500		wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-011

Client Sample ID: 02-19-101-18.5

Collection Date: 6/25/2019 12:08:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25031		Analyst: KT
Vinyl chloride	ND	0.293	D	mg/Kg-dry	10	6/25/2019 9:54:22 PM
cis-1,2-Dichloroethene	1.54	0.234	D	mg/Kg-dry	10	6/25/2019 9:54:22 PM
Trichloroethene (TCE)	0.734	0.234	D	mg/Kg-dry	10	6/25/2019 9:54:22 PM
Tetrachloroethene (PCE)	20.2	0.293	D	mg/Kg-dry	10	6/25/2019 9:54:22 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/25/2019 9:54:22 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 9:54:22 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	54.8 - 168	D	%Rec	10	6/25/2019 9:54:22 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295 Analyst: PA

Percent Moisture	12.4	0.500	wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-012

Client Sample ID: 02-21-102-20

Collection Date: 6/25/2019 12:25:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25031		Analyst: KT
Vinyl chloride	ND	0.232	D	mg/Kg-dry	10	6/25/2019 10:24:32 PM
cis-1,2-Dichloroethene	0.151	0.185	DJ	mg/Kg-dry	10	6/25/2019 10:24:32 PM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	6/25/2019 10:24:32 PM
Tetrachloroethene (PCE)	3.59	0.232	D	mg/Kg-dry	10	6/25/2019 10:24:32 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 10:24:32 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 10:24:32 PM
Surr: 1-Bromo-4-fluorobenzene	98.7	54.8 - 168	D	%Rec	10	6/25/2019 10:24:32 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295 Analyst: PA

Percent Moisture	11.3	0.500	wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-013

Client Sample ID: 02-19-102-18

Collection Date: 6/25/2019 12:30:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.227	D	mg/Kg-dry	10	6/25/2019 10:54:40 PM
cis-1,2-Dichloroethene	0.370	0.182	D	mg/Kg-dry	10	6/25/2019 10:54:40 PM
Trichloroethene (TCE)	0.181	0.182	DJ	mg/Kg-dry	10	6/25/2019 10:54:40 PM
Tetrachloroethene (PCE)	3.28	0.227	D	mg/Kg-dry	10	6/25/2019 10:54:40 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/25/2019 10:54:40 PM
Surr: Toluene-d8	99.5	64.5 - 151	D	%Rec	10	6/25/2019 10:54:40 PM
Surr: 1-Bromo-4-fluorobenzene	99.6	54.8 - 168	D	%Rec	10	6/25/2019 10:54:40 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	12.5	0.500		wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-014

Client Sample ID: 02-21-103-20

Collection Date: 6/25/2019 10:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	6/25/2019 11:24:48 PM
cis-1,2-Dichloroethene	ND	0.187	D	mg/Kg-dry	10	6/25/2019 11:24:48 PM
Trichloroethene (TCE)	ND	0.187	D	mg/Kg-dry	10	6/25/2019 11:24:48 PM
Tetrachloroethene (PCE)	ND	0.234	D	mg/Kg-dry	10	6/25/2019 11:24:48 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 11:24:48 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 11:24:48 PM
Surr: 1-Bromo-4-fluorobenzene	98.7	54.8 - 168	D	%Rec	10	6/25/2019 11:24:48 PM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	12.2	0.500		wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-015

Client Sample ID: 02-19-103-18

Collection Date: 6/25/2019 10:52:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.248	D	mg/Kg-dry	10	6/26/2019 12:25:07 AM
cis-1,2-Dichloroethene	0.364	0.198	D	mg/Kg-dry	10	6/26/2019 12:25:07 AM
Trichloroethene (TCE)	ND	0.198	D	mg/Kg-dry	10	6/26/2019 12:25:07 AM
Tetrachloroethene (PCE)	ND	0.248	D	mg/Kg-dry	10	6/26/2019 12:25:07 AM
Surr: Dibromofluoromethane	98.6	56.5 - 129	D	%Rec	10	6/26/2019 12:25:07 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/26/2019 12:25:07 AM
Surr: 1-Bromo-4-fluorobenzene	97.5	54.8 - 168	D	%Rec	10	6/26/2019 12:25:07 AM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	11.8	0.500	wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-016

Client Sample ID: 02-21-104-20

Collection Date: 6/25/2019 11:03:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.231	D	mg/Kg-dry	10	6/26/2019 12:55:17 AM
cis-1,2-Dichloroethene	0.233	0.185	D	mg/Kg-dry	10	6/26/2019 12:55:17 AM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	6/26/2019 12:55:17 AM
Tetrachloroethene (PCE)	0.728	0.231	D	mg/Kg-dry	10	6/26/2019 12:55:17 AM
Surr: Dibromofluoromethane	99.7	56.5 - 129	D	%Rec	10	6/26/2019 12:55:17 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/26/2019 12:55:17 AM
Surr: 1-Bromo-4-fluorobenzene	97.8	54.8 - 168	D	%Rec	10	6/26/2019 12:55:17 AM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	18.1	0.500	wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-017

Client Sample ID: 02-19-104-18

Collection Date: 6/25/2019 11:06:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.228	D	mg/Kg-dry	10	6/26/2019 1:25:25 AM
cis-1,2-Dichloroethene	0.103	0.183	DJ	mg/Kg-dry	10	6/26/2019 1:25:25 AM
Trichloroethene (TCE)	ND	0.183	D	mg/Kg-dry	10	6/26/2019 1:25:25 AM
Tetrachloroethene (PCE)	0.370	0.228	D	mg/Kg-dry	10	6/26/2019 1:25:25 AM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/26/2019 1:25:25 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/26/2019 1:25:25 AM
Surr: 1-Bromo-4-fluorobenzene	96.7	54.8 - 168	D	%Rec	10	6/26/2019 1:25:25 AM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	12.1	0.500		wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-018

Client Sample ID: 02-21-105-20

Collection Date: 6/25/2019 11:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.232	D	mg/Kg-dry	10	6/26/2019 1:55:35 AM
cis-1,2-Dichloroethene	0.162	0.186	DJ	mg/Kg-dry	10	6/26/2019 1:55:35 AM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	6/26/2019 1:55:35 AM
Tetrachloroethene (PCE)	0.548	0.232	D	mg/Kg-dry	10	6/26/2019 1:55:35 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/26/2019 1:55:35 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/26/2019 1:55:35 AM
Surr: 1-Bromo-4-fluorobenzene	97.0	54.8 - 168	D	%Rec	10	6/26/2019 1:55:35 AM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	12.4	0.500		wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-019

Client Sample ID: 02-19-105-18

Collection Date: 6/25/2019 11:18:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.226	D	mg/Kg-dry	10	6/26/2019 2:25:46 AM
cis-1,2-Dichloroethene	0.141	0.181	DJ	mg/Kg-dry	10	6/26/2019 2:25:46 AM
Trichloroethene (TCE)	ND	0.181	D	mg/Kg-dry	10	6/26/2019 2:25:46 AM
Tetrachloroethene (PCE)	ND	0.226	D	mg/Kg-dry	10	6/26/2019 2:25:46 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/26/2019 2:25:46 AM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	6/26/2019 2:25:46 AM
Surr: 1-Bromo-4-fluorobenzene	98.5	54.8 - 168	D	%Rec	10	6/26/2019 2:25:46 AM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	13.0	0.500		wt%	1	6/25/2019 3:47:52 PM
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Lab ID: 1906316-020

Client Sample ID: 02-21-106-20

Collection Date: 6/25/2019 11:28:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25031

Analyst: KT

Vinyl chloride	ND	0.218	D	mg/Kg-dry	10	6/26/2019 3:54:50 AM
cis-1,2-Dichloroethene	0.0943	0.174	DJ	mg/Kg-dry	10	6/26/2019 3:54:50 AM
Trichloroethene (TCE)	ND	0.174	D	mg/Kg-dry	10	6/26/2019 3:54:50 AM
Tetrachloroethene (PCE)	1.62	0.218	D	mg/Kg-dry	10	6/26/2019 3:54:50 AM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/26/2019 3:54:50 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/26/2019 3:54:50 AM
Surr: 1-Bromo-4-fluorobenzene	99.4	54.8 - 168	D	%Rec	10	6/26/2019 3:54:50 AM

Sample Moisture (Percent Moisture)

Batch ID: R52295

Analyst: PA

Percent Moisture	10.0	0.500		wt%	1	6/25/2019 3:47:52 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-021

Client Sample ID: 02-19-106-18

Collection Date: 6/25/2019 11:32:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25031		Analyst: KT
Vinyl chloride	ND	0.209	D	mg/Kg-dry	10	6/26/2019 4:25:00 AM
cis-1,2-Dichloroethene	0.106	0.167	DJ	mg/Kg-dry	10	6/26/2019 4:25:00 AM
Trichloroethene (TCE)	ND	0.167	D	mg/Kg-dry	10	6/26/2019 4:25:00 AM
Tetrachloroethene (PCE)	0.470	0.209	D	mg/Kg-dry	10	6/26/2019 4:25:00 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/26/2019 4:25:00 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/26/2019 4:25:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.6	54.8 - 168	D	%Rec	10	6/26/2019 4:25:00 AM

Sample Moisture (Percent Moisture)

Batch ID: R52302 Analyst: PA

Percent Moisture	11.8	0.500	wt%	1	6/25/2019 5:31:13 PM
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Lab ID: 1906316-022

Client Sample ID: B-951-18

Collection Date: 6/25/2019 1:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25031		Analyst: KT
Vinyl chloride	ND	0.247	D	mg/Kg-dry	10	6/26/2019 4:55:10 AM
cis-1,2-Dichloroethene	0.122	0.198	DJ	mg/Kg-dry	10	6/26/2019 4:55:10 AM
Trichloroethene (TCE)	ND	0.198	D	mg/Kg-dry	10	6/26/2019 4:55:10 AM
Tetrachloroethene (PCE)	ND	0.247	D	mg/Kg-dry	10	6/26/2019 4:55:10 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/26/2019 4:55:10 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/26/2019 4:55:10 AM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168	D	%Rec	10	6/26/2019 4:55:10 AM

Sample Moisture (Percent Moisture)

Batch ID: R52302 Analyst: PA

Percent Moisture	13.9	0.500	wt%	1	6/25/2019 5:31:13 PM
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Analytical Report

Work Order: 1906316

Date Reported: 6/26/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1906316-023

Client Sample ID: 04-24-200-23

Collection Date: 6/25/2019 7:55:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25031		Analyst: KT
Vinyl chloride	ND	0.215	D	mg/Kg-dry	10	6/26/2019 5:25:20 AM
cis-1,2-Dichloroethene	ND	0.172	D	mg/Kg-dry	10	6/26/2019 5:25:20 AM
Trichloroethene (TCE)	ND	0.172	D	mg/Kg-dry	10	6/26/2019 5:25:20 AM
Tetrachloroethene (PCE)	0.205	0.215	JD	mg/Kg-dry	10	6/26/2019 5:25:20 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/26/2019 5:25:20 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/26/2019 5:25:20 AM
Surr: 1-Bromo-4-fluorobenzene	96.5	54.8 - 168	D	%Rec	10	6/26/2019 5:25:20 AM

Sample Moisture (Percent Moisture)

Batch ID: R52302 Analyst: PA

Percent Moisture	13.2	0.500	wt%	1	6/25/2019 5:31:13 PM
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Lab ID: 1906316-024

Client Sample ID: 04-24-201-23.5

Collection Date: 6/25/2019 8:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25031		Analyst: KT
Vinyl chloride	ND	0.210	D	mg/Kg-dry	10	6/26/2019 5:55:30 AM
cis-1,2-Dichloroethene	ND	0.168	D	mg/Kg-dry	10	6/26/2019 5:55:30 AM
Trichloroethene (TCE)	ND	0.168	D	mg/Kg-dry	10	6/26/2019 5:55:30 AM
Tetrachloroethene (PCE)	0.198	0.210	DJ	mg/Kg-dry	10	6/26/2019 5:55:30 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/26/2019 5:55:30 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/26/2019 5:55:30 AM
Surr: 1-Bromo-4-fluorobenzene	99.0	54.8 - 168	D	%Rec	10	6/26/2019 5:55:30 AM

Sample Moisture (Percent Moisture)

Batch ID: R52302 Analyst: PA

Percent Moisture	11.0	0.500	wt%	1	6/25/2019 5:31:13 PM
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Work Order: 1906316
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	MB-25026	SampType: MBLK			Units: mg/Kg		Prep Date: 6/25/2019			RunNo: 52298		
Client ID:	MBLKS	Batch ID: 25026			Analysis Date: 6/25/2019					SeqNo: 1032838		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.39		1.250		111	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.15		1.250		91.6	54.8	168				

Sample ID	1906311-001BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/25/2019	RunNo:	52298		
Client ID:	BATCH	Batch ID:	25026	Analysis Date:	6/25/2019	SeqNo:	1032836				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0230						0	0	30	
cis-1,2-Dichloroethene	ND	0.0184						0	0	30	
Trichloroethene (TCE)	ND	0.0184						0	0	30	
Tetrachloroethene (PCE)	ND	0.0230						0	0	30	
Surr: Dibromofluoromethane	1.11		1.151		96.1	56.5	129		0		
Surr: Toluene-d8	1.22		1.151		106	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.06		1.151		91.6	54.8	168		0		

Sample ID	LCS-25031	SampType: LCS			Units: mg/Kg		Prep Date: 6/25/2019			RunNo: 52308		
Client ID:	LCSS	Batch ID: 25031			Analysis Date: 6/25/2019					SeqNo: 1032992		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	1.38	0.0250	1.000	0	138	43.4	151				
cis-1,2-Dichloroethene	1.23	0.0200	1.000	0	123	71.3	135				
Trichloroethene (TCE)	1.23	0.0200	1.000	0	123	65.5	137				
Tetrachloroethene (PCE)	1.26	0.0250	1.000	0	126	52.7	150				
Surr: Dibromofluoromethane	1.36		1.250		109	56.5	129				
Surr: Toluene-d8	1.29		1.250		104	64.5	151				

Work Order: 1906316
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	LCS-25031	SampType: LCS			Units: mg/Kg		Prep Date: 6/25/2019			RunNo: 52308		
Client ID:	LCSS	Batch ID: 25031			Analysis Date: 6/25/2019			SeqNo: 1032992				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: 1-Bromo-4-fluorobenzene	1.32		1.250		106	54.8	168				
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Sample ID	LCSD-25031	SampType: LCSD			Units: mg/Kg		Prep Date: 6/25/2019			RunNo: 52308		
Client ID:	LCSS02	Batch ID: 25031			Analysis Date: 6/25/2019				SeqNo: 1032993			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	1.31	0.0250	1.000	0	131	43.4	151	1.378	5.06	20
cis-1,2-Dichloroethene	1.20	0.0200	1.000	0	120	71.6	123	1.232	3.05	20
Trichloroethene (TCE)	1.23	0.0200	1.000	0	123	65.5	137	1.228	0.185	20
Tetrachloroethene (PCE)	1.21	0.0250	1.000	0	121	52.7	150	1.261	4.13	20
Surr: Dibromofluoromethane	1.34		1.250		107	56.5	129		0	
Surr: Toluene-d8	1.30		1.250		104	64.5	151		0	
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		102	54.8	168		0	

Sample ID	MB-25031	SampType: MBLK		Units: mg/Kg		Prep Date: 6/25/2019		RunNo: 52308			
Client ID:	MBLKS	Batch ID: 25031				Analysis Date: 6/25/2019		SeqNo: 1032994			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0250								
cis-1,2-Dichloroethene	ND	0.0200								
Trichloroethene (TCE)	ND	0.0200								
Tetrachloroethene (PCE)	ND	0.0250								
Surr: Dibromofluoromethane	1.24		1.250		99.3	56.5	129			
Surr: Toluene-d8	1.26		1.250		101	64.5	151			
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		96.1	54.8	168			



Date: 6/26/2019

Work Order: 1906316
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	1906316-004BDUP	SampType:	DUP	Units: mg/Kg-dry			Prep Date: 6/25/2019			RunNo: 52298		
Client ID:	02-23-106-22	Batch ID:	25026				Analysis Date: 6/25/2019			SeqNo: 1032927		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Vinyl chloride	ND	0.217						0	0	30	D	
cis-1,2-Dichloroethene	0.0876	0.174						0	200	30	DJ	
Trichloroethene (TCE)	ND	0.174						0	0	30	D	
Tetrachloroethene (PCE)	0.668	0.217						0.5901	12.4	30	D	
Surr: Dibromofluoromethane	10.7		10.87		98.6	56.5	129		0		D	
Surr: Toluene-d8	11.8		10.87		109	64.5	151		0		D	
Surr: 1-Bromo-4-fluorobenzene	9.78		10.87		90.0	54.8	168		0		D	

Sample ID	LCS-25026	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/25/2019	RunNo:	52298		
Client ID:	LCSS	Batch ID:	25026			Analysis Date:	6/25/2019	SeqNo:	1032934		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.10	0.0250	1.000	0	110	43.4	151				
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	71.3	135				
Trichloroethene (TCE)	1.16	0.0200	1.000	0	116	65.5	137				
Tetrachloroethene (PCE)	1.20	0.0250	1.000	0	120	52.7	150				
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.49		1.250		119	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.36		1.250		109	54.8	168				

Sample ID	LCSD-25026	SampType:	LCSD	Units:	mg/Kg	Prep Date:	6/25/2019	RunNo:	52298		
Client ID:	LCSS02	Batch ID:	25026			Analysis Date:	6/25/2019	SeqNo:	1032935		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.997	0.0250	1.000	0	99.7	43.4	151	1.098	9.68	20	
cis-1,2-Dichloroethene	0.916	0.0200	1.000	0	91.6	71.6	123	1.040	12.6	20	
Trichloroethene (TCE)	0.980	0.0200	1.000	0	98.0	65.5	137	1.156	16.5	20	
Tetrachloroethene (PCE)	1.03	0.0250	1.000	0	103	52.7	150	1.197	15.2	20	
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129		0		
Surr: Toluene-d8	1.42		1.250		113	64.5	151		0		

Work Order: 1906316
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	LCSD-25026	SampType:	LCSD	Units:	mg/Kg	Prep Date:	6/25/2019	RunNo:	52298		
Client ID:	LCSS02	Batch ID:	25026			Analysis Date:	6/25/2019	SeqNo:	1032935		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.8	54.8	168		0		
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NOTES:

R - High RPD observed, spike recovery is within range.

Sample ID	1906316-014BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/25/2019	RunNo:	52308		
Client ID:	02-21-103-20	Batch ID:	25031			Analysis Date:	6/25/2019	SeqNo:	1032978		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.234						0	0	30	D
cis-1,2-Dichloroethene	ND	0.187						0	0	30	D
Trichloroethene (TCE)	ND	0.187						0	0	30	D
Tetrachloroethene (PCE)	ND	0.234						0	0	30	D
Surr: Dibromofluoromethane	11.6		11.70		99.4	56.5	129		0		D
Surr: Toluene-d8	11.8		11.70		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.4		11.70		97.4	54.8	168		0		D

Sample ID	1906316-024BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/25/2019	RunNo:	52308		
Client ID:	04-24-201-23.5	Batch ID:	25031			Analysis Date:	6/26/2019	SeqNo:	1032989		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.210						0	0	30	D
cis-1,2-Dichloroethene	ND	0.168						0	0	30	D
Trichloroethene (TCE)	ND	0.168						0	0	30	D
Tetrachloroethene (PCE)	0.192	0.210						0.1984	3.41	30	DJ
Surr: Dibromofluoromethane	10.8		10.48		103	56.5	129		0		D
Surr: Toluene-d8	10.7		10.48		102	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.1		10.48		96.6	54.8	168		0		D

Work Order: 1906316
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID	1906316-002ADUP	SampType:	DUP	Units:	wt%	Prep Date:	6/25/2019	RunNo:	52295		
Client ID:	02-23-104-22	Batch ID:	R52295			Analysis Date:	6/25/2019	SeqNo:	1032769		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.7	0.500						13.73	0.149	20	

Sample ID	1906316-015ADUP	SampType:	DUP	Units:	wt%	Prep Date:	6/25/2019	RunNo:	52295		
Client ID:	02-19-103-18	Batch ID:	R52295			Analysis Date:	6/25/2019	SeqNo:	1032783		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	11.3	0.500						11.84	4.51	20	

Sample ID	1906325-003ADUP	SampType:	DUP	Units:	wt%	Prep Date:	6/25/2019	RunNo:	52302		
Client ID:	BATCH	Batch ID:	R52302			Analysis Date:	6/25/2019	SeqNo:	1032890		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	23.9	0.500						23.97	0.391	20	

Client Name: **PES**

Work Order Number: **1906316**

Logged by: **Clare Griggs**

Date Received: **6/25/2019 2:09:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	8.1
Sample	6.7

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6-25-19 Page: 1 of 3

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: RTM/KSZ

Location: SEATTLE WA

Report To (PM): K. SPRINGSTEAD/K.VIK

PM Email: KSPRINGSTEAD@FREMONTANALYTICAL.COM

Laboratory Project No (Internal): 190102110

Special Remarks: Select List: PCB, TCE, CAS, DE, V.C.

V.C.

ASAP T.A.T. (WED AM)

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: RES ENVIRONMENTAL
Address: 1215 4th AVE STE 1350
City, State, Zip: SEATTLE WA 98161
Telephone: 206 529 3980
Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
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1 02-23-103-22 6/25/19 1641 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

2 02-23-104-22 1658 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

3 02-23-105-22 1112 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

4 02-23-106-22 1123 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

5 02-23-108-22 1141 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

6 02-23-101-22 1200 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

7 02-23-102-22 1222 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

8 02-23-102-22 1222 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

9 02-23-102-22 1222 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

10 02-23-102-22 1222 S ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☐ Next Day

☐ Same Day ASAP

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Received 6/25/19 1409
Date/Time

Received 6/25/19 1409
Date/Time

www.fremontanalytical.com



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6-25-19 Page: 2 of 3

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: SEB

Location: PG 1

Report To (PM): 1

PM Email: 1

Laboratory Project No (Internal): 1906314

Special Remarks: 48 HR TAT

SELECT LIST: TCE, PCE,

CIS 1,2-DCE, V.C.

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL

Address: 1215 4th AVE STE 1350

City, State, Zip: SEE PG 1

Telephone: SEE PG 1

Fax: SEE PG 1

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
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1	02-21-100-20	6/25/19	1144	S													
2	02-19-100-18		1149														
3	02-21-101-20		1203														
4	02-19-101-18.5		1208														
5	02-21-102-20		1225														
6	02-19-102-18		1230														
7	02-21-103-20		1045														
8	02-19-103-18		1052														
9	02-21-104-20		1103														
10	02-19-104-18		1106														

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished 6-25-19 1409 Received 6-25-19 1409

Relinquished 6-25-19 1409 Received 6-25-19 1409



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7118

Chain of Custody Record & Laboratory Services Agreement

Date: 6-25-19 Page: 3 of 3

Project Name: AMERICAN LINEN

Client: RES ENVIRONMENTAL

Address: SEE Pg 1

City, State, Zip: SEE Pg 1

Telephone: 1

Fax: 1

Laboratory Project No (Internal): 1400310

Special Remarks: 48 HR TAT / ASAP FOR X2 SELECT LIST: PCE, TCE, CIS, DCE
V.C.

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Fax:				PM Email:														
Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHR)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments	
1 02-21-105-20	6/25/19	1115	S	X														
2 02-19-105-18		1118																
3 02-21-106-20		1128																
4 02-19-105-18		1132																
5 B-951-18	X	1305	X	X														ASAP - WED AM
6 04-24-206-23	6/25/19	0755	S	X														ASAP - WED AM
7 04-24-201-23-5	6/25/19	0800	S	X														
8																		
9																		
10																		Turn-around Time:

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished 6-25-19 1409 Received 6-25-19 1409
Date/Time Date/Time
Relinquished 6-25-19 1409 Received 6-25-19 1409
Date/Time Date/Time

Turn-around Time:
☒ 2 Day
☐ 3 Day
☐ Standard
☐ Next Day
☐ Same Day (specify)



Fremont
Analytical

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info@fremontanalytical.com

PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1907193

July 16, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 8 sample(s) on 7/15/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:

Dan Balbiani
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1907193

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1907193-001	02-19-200-17.5	07/15/2019 7:55 AM	07/15/2019 10:09 AM
1907193-002	02-19-201-18.5	07/15/2019 7:50 AM	07/15/2019 10:09 AM
1907193-003	02-19-202-17.5	07/15/2019 7:45 AM	07/15/2019 10:09 AM
1907193-004	02-19-203-18.5	07/15/2019 7:35 AM	07/15/2019 10:09 AM
1907193-005	04-21-112-20	07/15/2019 9:25 AM	07/15/2019 10:09 AM
1907193-006	04-21-111-19	07/15/2019 9:20 AM	07/15/2019 10:09 AM
1907193-007	04-19-110-18	07/15/2019 9:15 AM	07/15/2019 10:09 AM
1907193-008	TB-071519	07/15/2019 9:30 AM	07/15/2019 10:09 AM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1907193

Date Reported: 7/16/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1907193-001

Client Sample ID: 02-19-200-17.5

Collection Date: 7/15/2019 7:55:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25200

Analyst: KT

Vinyl chloride	ND	0.231	D	mg/Kg-dry	10	7/15/2019 1:52:02 PM
cis-1,2-Dichloroethene	ND	0.185	D	mg/Kg-dry	10	7/15/2019 1:52:02 PM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	7/15/2019 1:52:02 PM
Tetrachloroethene (PCE)	ND	0.231	D	mg/Kg-dry	10	7/15/2019 1:52:02 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	7/15/2019 1:52:02 PM
Surr: Toluene-d8	97.7	64.5 - 151	D	%Rec	10	7/15/2019 1:52:02 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	7/15/2019 1:52:02 PM

Sample Moisture (Percent Moisture)

Batch ID: R52650

Analyst: CJ

Percent Moisture	12.5	0.500		wt%	1	7/15/2019 11:07:01 AM
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Lab ID: 1907193-002

Client Sample ID: 02-19-201-18.5

Collection Date: 7/15/2019 7:50:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25200

Analyst: KT

Vinyl chloride	ND	0.215	D	mg/Kg-dry	10	7/15/2019 2:52:17 PM
cis-1,2-Dichloroethene	ND	0.172	D	mg/Kg-dry	10	7/15/2019 2:52:17 PM
Trichloroethene (TCE)	ND	0.172	D	mg/Kg-dry	10	7/15/2019 2:52:17 PM
Tetrachloroethene (PCE)	ND	0.215	D	mg/Kg-dry	10	7/15/2019 2:52:17 PM
Surr: Dibromofluoromethane	108	56.5 - 129	D	%Rec	10	7/15/2019 2:52:17 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	7/15/2019 2:52:17 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	7/15/2019 2:52:17 PM

Sample Moisture (Percent Moisture)

Batch ID: R52650

Analyst: CJ

Percent Moisture	13.1	0.500		wt%	1	7/15/2019 11:07:01 AM
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Analytical Report

Work Order: 1907193

Date Reported: 7/16/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1907193-003

Client Sample ID: 02-19-202-17.5

Collection Date: 7/15/2019 7:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25200

Analyst: KT

Vinyl chloride	ND	0.214	D	mg/Kg-dry	10	7/15/2019 3:22:24 PM
cis-1,2-Dichloroethene	ND	0.171	D	mg/Kg-dry	10	7/15/2019 3:22:24 PM
Trichloroethene (TCE)	ND	0.171	D	mg/Kg-dry	10	7/15/2019 3:22:24 PM
Tetrachloroethene (PCE)	ND	0.214	D	mg/Kg-dry	10	7/15/2019 3:22:24 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	7/15/2019 3:22:24 PM
Surr: Toluene-d8	99.1	64.5 - 151	D	%Rec	10	7/15/2019 3:22:24 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	54.8 - 168	D	%Rec	10	7/15/2019 3:22:24 PM

Sample Moisture (Percent Moisture)

Batch ID: R52650

Analyst: CJ

Percent Moisture	14.0	0.500		wt%	1	7/15/2019 11:07:01 AM
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Lab ID: 1907193-004

Client Sample ID: 02-19-203-18.5

Collection Date: 7/15/2019 7:35:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25200

Analyst: KT

Vinyl chloride	ND	0.318	D	mg/Kg-dry	10	7/15/2019 3:52:32 PM
cis-1,2-Dichloroethene	ND	0.254	D	mg/Kg-dry	10	7/15/2019 3:52:32 PM
Trichloroethene (TCE)	ND	0.254	D	mg/Kg-dry	10	7/15/2019 3:52:32 PM
Tetrachloroethene (PCE)	ND	0.318	D	mg/Kg-dry	10	7/15/2019 3:52:32 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	7/15/2019 3:52:32 PM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	7/15/2019 3:52:32 PM
Surr: 1-Bromo-4-fluorobenzene	99.0	54.8 - 168	D	%Rec	10	7/15/2019 3:52:32 PM

Sample Moisture (Percent Moisture)

Batch ID: R52650

Analyst: CJ

Percent Moisture	12.5	0.500		wt%	1	7/15/2019 11:07:01 AM
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Analytical Report

Work Order: 1907193

Date Reported: 7/16/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1907193-005

Client Sample ID: 04-21-112-20

Collection Date: 7/15/2019 9:25:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25200		Analyst: KT
Vinyl chloride	ND	0.281	D	mg/Kg-dry	10	7/15/2019 4:22:38 PM
cis-1,2-Dichloroethene	ND	0.225	D	mg/Kg-dry	10	7/15/2019 4:22:38 PM
Trichloroethene (TCE)	ND	0.225	D	mg/Kg-dry	10	7/15/2019 4:22:38 PM
Tetrachloroethene (PCE)	ND	0.281	D	mg/Kg-dry	10	7/15/2019 4:22:38 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/15/2019 4:22:38 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	7/15/2019 4:22:38 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	54.8 - 168	D	%Rec	10	7/15/2019 4:22:38 PM

Sample Moisture (Percent Moisture)

Batch ID: R52650 Analyst: CJ

Percent Moisture	7.60	0.500	wt%	1	7/15/2019 11:07:01 AM
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Lab ID: 1907193-006

Client Sample ID: 04-21-111-19

Collection Date: 7/15/2019 9:20:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25200		Analyst: KT
Vinyl chloride	ND	0.231	D	mg/Kg-dry	10	7/15/2019 4:52:44 PM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	7/15/2019 4:52:44 PM
Trichloroethene (TCE)	ND	0.184	D	mg/Kg-dry	10	7/15/2019 4:52:44 PM
Tetrachloroethene (PCE)	ND	0.231	D	mg/Kg-dry	10	7/15/2019 4:52:44 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	7/15/2019 4:52:44 PM
Surr: Toluene-d8	99.3	64.5 - 151	D	%Rec	10	7/15/2019 4:52:44 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	54.8 - 168	D	%Rec	10	7/15/2019 4:52:44 PM

Sample Moisture (Percent Moisture)

Batch ID: R52650 Analyst: CJ

Percent Moisture	7.90	0.500	wt%	1	7/15/2019 11:07:01 AM
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Analytical Report

Work Order: 1907193

Date Reported: 7/16/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1907193-007

Client Sample ID: 04-19-110-18

Collection Date: 7/15/2019 9:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25200		Analyst: KT
Vinyl chloride	ND	0.242	D	mg/Kg-dry	10	7/15/2019 5:22:53 PM
cis-1,2-Dichloroethene	ND	0.193	D	mg/Kg-dry	10	7/15/2019 5:22:53 PM
Trichloroethene (TCE)	ND	0.193	D	mg/Kg-dry	10	7/15/2019 5:22:53 PM
Tetrachloroethene (PCE)	ND	0.242	D	mg/Kg-dry	10	7/15/2019 5:22:53 PM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	7/15/2019 5:22:53 PM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	7/15/2019 5:22:53 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168	D	%Rec	10	7/15/2019 5:22:53 PM

Sample Moisture (Percent Moisture)

Batch ID: R52650 Analyst: CJ

Percent Moisture	8.88	0.500	wt%	1	7/15/2019 11:07:01 AM
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Lab ID: 1907193-008

Client Sample ID: TB-071519

Collection Date: 7/15/2019 9:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25200		Analyst: KT
Vinyl chloride	ND	0.0250		mg/Kg	1	7/15/2019 11:51:33 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	7/15/2019 11:51:33 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	7/15/2019 11:51:33 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	7/15/2019 11:51:33 AM
Surr: Dibromofluoromethane	102	56.5 - 129		%Rec	1	7/15/2019 11:51:33 AM
Surr: Toluene-d8	102	64.5 - 151		%Rec	1	7/15/2019 11:51:33 AM
Surr: 1-Bromo-4-fluorobenzene	97.7	54.8 - 168		%Rec	1	7/15/2019 11:51:33 AM

Work Order: 1907193
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	LCS-25200	SampType:	LCS	Units:	mg/Kg	Prep Date:	7/15/2019	RunNo:	52660		
Client ID:	LCSS	Batch ID:	25200			Analysis Date:	7/15/2019	SeqNo:	1040215		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.10	0.0250	1.000	0	110	43.4	151				
cis-1,2-Dichloroethene	1.05	0.0200	1.000	0	105	71.3	135				
Trichloroethene (TCE)	1.05	0.0200	1.000	0	105	65.5	137				
Tetrachloroethene (PCE)	1.08	0.0250	1.000	0	108	52.7	150				
Surr: Dibromofluoromethane	1.33		1.250		106	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168				

Sample ID	LCSD-25200	SampType:	LCSD	Units:	mg/Kg	Prep Date:	7/15/2019	RunNo:	52660		
Client ID:	LCSS02	Batch ID:	25200			Analysis Date:	7/15/2019	SeqNo:	1040216		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.02	0.0250	1.000	0	102	43.4	151	1.098	7.34	20	
cis-1,2-Dichloroethene	1.01	0.0200	1.000	0	101	71.6	123	1.053	4.36	20	
Trichloroethene (TCE)	0.970	0.0200	1.000	0	97.0	65.5	137	1.055	8.35	20	
Tetrachloroethene (PCE)	0.999	0.0250	1.000	0	99.9	52.7	150	1.081	7.86	20	
Surr: Dibromofluoromethane	1.36		1.250		108	56.5	129		0		
Surr: Toluene-d8	1.27		1.250		102	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	54.8	168		0		

Sample ID	MB-25200	SampType:	MBLK		Units:	mg/Kg		Prep Date:	7/15/2019		RunNo:	52660	
Client ID:	MBLKS	Batch ID:	25200					Analysis Date:	7/15/2019		SeqNo:	1040217	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Vinyl chloride		ND	0.0250										
cis-1,2-Dichloroethene		ND	0.0200										
Trichloroethene (TCE)		ND	0.0200										
Tetrachloroethene (PCE)		ND	0.0250										
Surr: Dibromofluoromethane		1.28		1.250		103	56.5	129					
Surr: Toluene-d8		1.25		1.250		100	64.5	151					

Work Order: 1907193
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	MB-25200	SampType: MBLK			Units: mg/Kg		Prep Date: 7/15/2019			RunNo: 52660		
Client ID:	MBLKS	Batch ID: 25200			Analysis Date: 7/15/2019					SeqNo: 1040217		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: 1-Bromo-4-fluorobenzene 1.22 1.250 97.3 54.8 168

Sample ID	1907193-001BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	7/15/2019	RunNo:	52660		
Client ID:	02-19-200-17.5	Batch ID:	25200			Analysis Date:	7/15/2019	SeqNo:	1040204		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.231						0	0	30	D
cis-1,2-Dichloroethene	ND	0.185						0	0	30	D
Trichloroethene (TCE)	ND	0.185						0	0	30	D
Tetrachloroethene (PCE)	ND	0.231						0	0	30	D
Surr: Dibromofluoromethane	12.4		11.57		107	56.5	129		0		D
Surr: Toluene-d8	11.6		11.57		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.4		11.57		98.8	54.8	168		0		D

Sample ID	1907193-007BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	7/15/2019	RunNo:	52660		
Client ID:	04-19-110-18	Batch ID:	25200			Analysis Date:	7/15/2019	SeqNo:	1040211		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.242						0	0	30	D
cis-1,2-Dichloroethene	ND	0.193						0	0	30	D
Trichloroethene (TCE)	ND	0.193						0	0	30	D
Tetrachloroethene (PCE)	ND	0.242						0	0	30	D
Surr: Dibromofluoromethane	12.5		12.09		103	56.5	129		0		D
Surr: Toluene-d8	12.0		12.09		99.2	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.0		12.09		99.2	54.8	168		0		D



Work Order: 1907193
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID	1907193-006ADUP	SampType:	DUP	Units:	wt%	Prep Date:	7/15/2019	RunNo:	52650		
Client ID:	04-21-111-19	Batch ID:	R52650			Analysis Date:	7/15/2019	SeqNo:	1039991		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	7.25	0.500						7.899	8.60	20	

Sample ID	1907193-007ADUP	SampType:	DUP	Units:	wt%	Prep Date:	7/15/2019	RunNo:	52650		
Client ID:	04-19-110-18	Batch ID:	R52650			Analysis Date:	7/15/2019	SeqNo:	1040031		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	9.10	0.500						8.881	2.44	20	

Client Name: **PES**
 Logged by: **Carissa True**

Work Order Number: **1907193**
 Date Received: **7/15/2019 10:09:00 AM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of >0°C to 10.0°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler 1	10.0
Sample 1	18.1

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 7/15/19 Page: 1 of 1

Laboratory Project No (Internal): 1907193

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: R. WELSH/HUN/K. ZYGAS

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@FREMONTANALYTICAL.COM

Special Remarks:

SELECT LIST: VOC, TCE, CIS-1,2 VC

ASAP TAT - TUES AM (7/16)

edits by CRT 7/15 per Rachel

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

DOE

VC

ASAP TAT - TUES AM (7/16)

edits by CRT 7/15 per Rachel

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: RES ENVIRONMENTAL
Address: 1215 4th Ave Ste 1350
City, State, Zip: SEATTLE WA 98161
Telephone: 206 529 3980
Fax: 206 529 3985

Sample Name
Sample Date
Sample Time
Sample Type (Matrix)*

VOCs (EPA 8260 / 624)
GY/TEX
BTX
Gasoline Range Organics (GX)
Hydrocarbon Identification (HID)
Diesel/Heavy Oil Range Organics (DX)
SVOCs (EPA 8270 / 625)
PAHs (EPA 8270 - SIM)
PCBs (EPA 8082 / 608)
Metals** (EPA 6020 / 200.8)
Total (T) | Dissolved (D)
Anions (IC)**
EDB (8011)

Comments

1 ~~03~~ 19-200-17.5 7/15/19 0755 S X
2 ~~03~~ 19-201-18.5 0756
3 ~~03~~ 19-202-17.5 0745
4 ~~03~~ 19-203-18.5 0735
5 04-21-112-20 0925
6 04-21-111-19 0920
7 04-19-110-18 0915 X
8 T8-071519 X 0930 - X

9
10

Turn-around Time:
☐ Standard
☐ 3 Day
☐ 2 Day
☒ Next Day
Same Day (specify)

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti U V Zn
***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished
Date/Time: 7/15/19 1009
Received
Date/Time: 7/15/19 1009

Relinquished
Date/Time: 7/15/19 1009
Received
Date/Time: 7/15/19 1009

Relinquished
Date/Time: 7/15/19 1009
Received
Date/Time: 7/15/19 1009



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1908185

August 14, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 20 sample(s) on 8/13/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Dan Balbiani
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1908185

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908185-001	04-OB-103-14	08/13/2019 1:40 PM	08/13/2019 2:59 PM
1908185-002	04-OB-103-13	08/13/2019 2:43 PM	08/13/2019 2:59 PM
1908185-003	04-OB-104-14	08/13/2019 1:54 PM	08/13/2019 2:59 PM
1908185-004	04-OB-104-13	08/13/2019 1:56 PM	08/13/2019 2:59 PM
1908185-005	04-OB-105-13	08/13/2019 2:04 PM	08/13/2019 2:59 PM
1908185-006	04-OB-105-14	08/13/2019 2:02 PM	08/13/2019 2:59 PM
1908185-007	04-OB-106-14	08/13/2019 2:12 PM	08/13/2019 2:59 PM
1908185-008	04-OB-106-13	08/13/2019 2:14 PM	08/13/2019 2:59 PM
1908185-009	04-OB-001-14	08/13/2019 1:48 PM	08/13/2019 2:59 PM
1908185-010	04-OB-001-13	08/13/2019 1:52 PM	08/13/2019 2:59 PM
1908185-011	04-OB-002-14	08/13/2019 2:18 PM	08/13/2019 2:59 PM
1908185-012	04-OB-002-13	08/13/2019 2:21 PM	08/13/2019 2:59 PM
1908185-013	04-OB-003-14	08/13/2019 2:07 PM	08/13/2019 2:59 PM
1908185-014	04-OB-003-13	08/13/2019 2:10 PM	08/13/2019 2:59 PM
1908185-015	TB2-081319	08/13/2019 2:25 PM	08/13/2019 2:59 PM
1908185-016	04-13-104-12	08/13/2019 2:00 PM	08/13/2019 2:59 PM
1908185-017	04-13-103-12	08/13/2019 1:45 PM	08/13/2019 2:59 PM
1908185-018	04-13-105-12	08/13/2019 2:05 PM	08/13/2019 2:59 PM
1908185-019	04-13-106-12	08/13/2019 2:16 PM	08/13/2019 2:59 PM
1908185-020	B-963-10	08/13/2019 9:30 AM	08/13/2019 2:59 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-001

Client Sample ID: 04-OB-103-14

Collection Date: 8/13/2019 1:40:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.241	D	mg/Kg-dry	10	8/13/2019 10:39:07 PM
cis-1,2-Dichloroethene	ND	0.192	D	mg/Kg-dry	10	8/13/2019 10:39:07 PM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	8/13/2019 10:39:07 PM
Tetrachloroethene (PCE)	1.94	0.241	D	mg/Kg-dry	10	8/13/2019 10:39:07 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	8/13/2019 10:39:07 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	8/13/2019 10:39:07 PM
Surr: 1-Bromo-4-fluorobenzene	97.2	54.8 - 168	D	%Rec	10	8/13/2019 10:39:07 PM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	11.5	0.500	wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-002

Client Sample ID: 04-OB-103-13

Collection Date: 8/13/2019 2:43:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.243	D	mg/Kg-dry	10	8/13/2019 11:09:18 PM
cis-1,2-Dichloroethene	ND	0.194	D	mg/Kg-dry	10	8/13/2019 11:09:18 PM
Trichloroethene (TCE)	ND	0.194	D	mg/Kg-dry	10	8/13/2019 11:09:18 PM
Tetrachloroethene (PCE)	1.05	0.243	D	mg/Kg-dry	10	8/13/2019 11:09:18 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	8/13/2019 11:09:18 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	8/13/2019 11:09:18 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	54.8 - 168	D	%Rec	10	8/13/2019 11:09:18 PM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.82	0.500	wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-003

Client Sample ID: 04-OB-104-14

Collection Date: 8/13/2019 1:54:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.265	D	mg/Kg-dry	10	8/13/2019 11:39:27 PM
cis-1,2-Dichloroethene	ND	0.212	D	mg/Kg-dry	10	8/13/2019 11:39:27 PM
Trichloroethene (TCE)	ND	0.212	D	mg/Kg-dry	10	8/13/2019 11:39:27 PM
Tetrachloroethene (PCE)	ND	0.265	D	mg/Kg-dry	10	8/13/2019 11:39:27 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	8/13/2019 11:39:27 PM
Surr: Toluene-d8	98.8	64.5 - 151	D	%Rec	10	8/13/2019 11:39:27 PM
Surr: 1-Bromo-4-fluorobenzene	96.9	54.8 - 168	D	%Rec	10	8/13/2019 11:39:27 PM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	10.1	0.500	wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-004

Client Sample ID: 04-OB-104-13

Collection Date: 8/13/2019 1:56:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.257	D	mg/Kg-dry	10	8/14/2019 12:09:37 AM
cis-1,2-Dichloroethene	ND	0.206	D	mg/Kg-dry	10	8/14/2019 12:09:37 AM
Trichloroethene (TCE)	ND	0.206	D	mg/Kg-dry	10	8/14/2019 12:09:37 AM
Tetrachloroethene (PCE)	ND	0.257	D	mg/Kg-dry	10	8/14/2019 12:09:37 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	8/14/2019 12:09:37 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	8/14/2019 12:09:37 AM
Surr: 1-Bromo-4-fluorobenzene	97.9	54.8 - 168	D	%Rec	10	8/14/2019 12:09:37 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.32	0.500	wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-005

Client Sample ID: 04-OB-105-13

Collection Date: 8/13/2019 2:04:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.273	D	mg/Kg-dry	10	8/14/2019 12:39:46 AM
cis-1,2-Dichloroethene	ND	0.218	D	mg/Kg-dry	10	8/14/2019 12:39:46 AM
Trichloroethene (TCE)	ND	0.218	D	mg/Kg-dry	10	8/14/2019 12:39:46 AM
Tetrachloroethene (PCE)	ND	0.273	D	mg/Kg-dry	10	8/14/2019 12:39:46 AM
Surr: Dibromofluoromethane	99.8	56.5 - 129	D	%Rec	10	8/14/2019 12:39:46 AM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	8/14/2019 12:39:46 AM
Surr: 1-Bromo-4-fluorobenzene	95.5	54.8 - 168	D	%Rec	10	8/14/2019 12:39:46 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	9.06	0.500		wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-006

Client Sample ID: 04-OB-105-14

Collection Date: 8/13/2019 2:02:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.241	D	mg/Kg-dry	10	8/14/2019 1:09:56 AM
cis-1,2-Dichloroethene	ND	0.192	D	mg/Kg-dry	10	8/14/2019 1:09:56 AM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	8/14/2019 1:09:56 AM
Tetrachloroethene (PCE)	ND	0.241	D	mg/Kg-dry	10	8/14/2019 1:09:56 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	8/14/2019 1:09:56 AM
Surr: Toluene-d8	99.4	64.5 - 151	D	%Rec	10	8/14/2019 1:09:56 AM
Surr: 1-Bromo-4-fluorobenzene	95.1	54.8 - 168	D	%Rec	10	8/14/2019 1:09:56 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	9.07	0.500		wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-007

Client Sample ID: 04-OB-106-14

Collection Date: 8/13/2019 2:12:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25479		Analyst: KT
Vinyl chloride	ND	0.271	D	mg/Kg-dry	10	8/14/2019 1:40:06 AM
cis-1,2-Dichloroethene	ND	0.217	D	mg/Kg-dry	10	8/14/2019 1:40:06 AM
Trichloroethene (TCE)	ND	0.217	D	mg/Kg-dry	10	8/14/2019 1:40:06 AM
Tetrachloroethene (PCE)	ND	0.271	D	mg/Kg-dry	10	8/14/2019 1:40:06 AM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	8/14/2019 1:40:06 AM
Surr: Toluene-d8	98.9	64.5 - 151	D	%Rec	10	8/14/2019 1:40:06 AM
Surr: 1-Bromo-4-fluorobenzene	97.7	54.8 - 168	D	%Rec	10	8/14/2019 1:40:06 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229 Analyst: SBM

Percent Moisture	7.33	0.500	wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-008

Client Sample ID: 04-OB-106-13

Collection Date: 8/13/2019 2:14:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25479		Analyst: KT
Vinyl chloride	ND	0.250	D	mg/Kg-dry	10	8/14/2019 2:10:16 AM
cis-1,2-Dichloroethene	ND	0.200	D	mg/Kg-dry	10	8/14/2019 2:10:16 AM
Trichloroethene (TCE)	ND	0.200	D	mg/Kg-dry	10	8/14/2019 2:10:16 AM
Tetrachloroethene (PCE)	ND	0.250	D	mg/Kg-dry	10	8/14/2019 2:10:16 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	8/14/2019 2:10:16 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	8/14/2019 2:10:16 AM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168	D	%Rec	10	8/14/2019 2:10:16 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229 Analyst: SBM

Percent Moisture	7.18	0.500	wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-009

Client Sample ID: 04-OB-001-14

Collection Date: 8/13/2019 1:48:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25479		Analyst: KT
Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	8/14/2019 2:40:25 AM
cis-1,2-Dichloroethene	0.418	0.188	D	mg/Kg-dry	10	8/14/2019 2:40:25 AM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	8/14/2019 2:40:25 AM
Tetrachloroethene (PCE)	0.252	0.234	D	mg/Kg-dry	10	8/14/2019 2:40:25 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	8/14/2019 2:40:25 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	8/14/2019 2:40:25 AM
Surr: 1-Bromo-4-fluorobenzene	96.4	54.8 - 168	D	%Rec	10	8/14/2019 2:40:25 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229 Analyst: SBM

Percent Moisture	7.82	0.500	wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-010

Client Sample ID: 04-OB-001-13

Collection Date: 8/13/2019 1:52:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25479		Analyst: KT
Vinyl chloride	ND	0.246	D	mg/Kg-dry	10	8/14/2019 3:10:34 AM
cis-1,2-Dichloroethene	0.356	0.197	D	mg/Kg-dry	10	8/14/2019 3:10:34 AM
Trichloroethene (TCE)	ND	0.197	D	mg/Kg-dry	10	8/14/2019 3:10:34 AM
Tetrachloroethene (PCE)	0.141	0.246	DJ	mg/Kg-dry	10	8/14/2019 3:10:34 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	8/14/2019 3:10:34 AM
Surr: Toluene-d8	99.4	64.5 - 151	D	%Rec	10	8/14/2019 3:10:34 AM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168	D	%Rec	10	8/14/2019 3:10:34 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229 Analyst: SBM

Percent Moisture	7.99	0.500	wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-011

Client Sample ID: 04-OB-002-14

Collection Date: 8/13/2019 2:18:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	8/14/2019 3:40:46 AM
cis-1,2-Dichloroethene	0.152	0.185	DJ	mg/Kg-dry	10	8/14/2019 3:40:46 AM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	8/14/2019 3:40:46 AM
Tetrachloroethene (PCE)	0.140	0.230	DJ	mg/Kg-dry	10	8/14/2019 3:40:46 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	8/14/2019 3:40:46 AM
Surr: Toluene-d8	99.5	64.5 - 151	D	%Rec	10	8/14/2019 3:40:46 AM
Surr: 1-Bromo-4-fluorobenzene	94.9	54.8 - 168	D	%Rec	10	8/14/2019 3:40:46 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.39	0.500		wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-012

Client Sample ID: 04-OB-002-13

Collection Date: 8/13/2019 2:21:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	8/14/2019 4:10:54 AM
cis-1,2-Dichloroethene	0.110	0.201	DJ	mg/Kg-dry	10	8/14/2019 4:10:54 AM
Trichloroethene (TCE)	ND	0.201	D	mg/Kg-dry	10	8/14/2019 4:10:54 AM
Tetrachloroethene (PCE)	0.0959	0.251	DJ	mg/Kg-dry	10	8/14/2019 4:10:54 AM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	8/14/2019 4:10:54 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	8/14/2019 4:10:54 AM
Surr: 1-Bromo-4-fluorobenzene	98.1	54.8 - 168	D	%Rec	10	8/14/2019 4:10:54 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.86	0.500		wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-013

Client Sample ID: 04-OB-003-14

Collection Date: 8/13/2019 2:07:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25479

Analyst: KT

Vinyl chloride	ND	0.247	D	mg/Kg-dry	10	8/14/2019 4:41:04 AM
cis-1,2-Dichloroethene	ND	0.197	D	mg/Kg-dry	10	8/14/2019 4:41:04 AM
Trichloroethene (TCE)	ND	0.197	D	mg/Kg-dry	10	8/14/2019 4:41:04 AM
Tetrachloroethene (PCE)	ND	0.247	D	mg/Kg-dry	10	8/14/2019 4:41:04 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	8/14/2019 4:41:04 AM
Surr: Toluene-d8	99.1	64.5 - 151	D	%Rec	10	8/14/2019 4:41:04 AM
Surr: 1-Bromo-4-fluorobenzene	95.9	54.8 - 168	D	%Rec	10	8/14/2019 4:41:04 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.67	0.500		wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-014

Client Sample ID: 04-OB-003-13

Collection Date: 8/13/2019 2:10:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25488

Analyst: KT

Vinyl chloride	ND	0.221	D	mg/Kg-dry	10	8/14/2019 10:12:14 AM
cis-1,2-Dichloroethene	ND	0.177	D	mg/Kg-dry	10	8/14/2019 10:12:14 AM
Trichloroethene (TCE)	ND	0.177	D	mg/Kg-dry	10	8/14/2019 10:12:14 AM
Tetrachloroethene (PCE)	ND	0.221	D	mg/Kg-dry	10	8/14/2019 10:12:14 AM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	8/14/2019 10:12:14 AM
Surr: Toluene-d8	98.8	64.5 - 151	D	%Rec	10	8/14/2019 10:12:14 AM
Surr: 1-Bromo-4-fluorobenzene	95.8	54.8 - 168	D	%Rec	10	8/14/2019 10:12:14 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.49	0.500		wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-015

Client Sample ID: TB2-081319

Collection Date: 8/13/2019 2:25:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25488

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	8/14/2019 9:42:05 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/14/2019 9:42:05 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/14/2019 9:42:05 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/14/2019 9:42:05 AM
Surr: Dibromofluoromethane	103	56.5 - 129		%Rec	1	8/14/2019 9:42:05 AM
Surr: Toluene-d8	99.5	64.5 - 151		%Rec	1	8/14/2019 9:42:05 AM
Surr: 1-Bromo-4-fluorobenzene	98.3	54.8 - 168		%Rec	1	8/14/2019 9:42:05 AM

Lab ID: 1908185-016

Client Sample ID: 04-13-104-12

Collection Date: 8/13/2019 2:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25488

Analyst: KT

Vinyl chloride	ND	0.229	D	mg/Kg-dry	10	8/14/2019 11:12:27 AM
cis-1,2-Dichloroethene	ND	0.183	D	mg/Kg-dry	10	8/14/2019 11:12:27 AM
Trichloroethene (TCE)	ND	0.183	D	mg/Kg-dry	10	8/14/2019 11:12:27 AM
Tetrachloroethene (PCE)	ND	0.229	D	mg/Kg-dry	10	8/14/2019 11:12:27 AM
Surr: Dibromofluoromethane	99.9	56.5 - 129	D	%Rec	10	8/14/2019 11:12:27 AM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	8/14/2019 11:12:27 AM
Surr: 1-Bromo-4-fluorobenzene	96.8	54.8 - 168	D	%Rec	10	8/14/2019 11:12:27 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	8.25	0.500		wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-017

Client Sample ID: 04-13-103-12

Collection Date: 8/13/2019 1:45:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25488

Analyst: KT

Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	8/14/2019 11:42:34 AM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	8/14/2019 11:42:34 AM
Trichloroethene (TCE)	ND	0.184	D	mg/Kg-dry	10	8/14/2019 11:42:34 AM
Tetrachloroethene (PCE)	1.19	0.230	D	mg/Kg-dry	10	8/14/2019 11:42:34 AM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	8/14/2019 11:42:34 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	8/14/2019 11:42:34 AM
Surr: 1-Bromo-4-fluorobenzene	95.3	54.8 - 168	D	%Rec	10	8/14/2019 11:42:34 AM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.57	0.500		wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-018

Client Sample ID: 04-13-105-12

Collection Date: 8/13/2019 2:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25488

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	8/14/2019 12:12:41 PM
cis-1,2-Dichloroethene	0.176	0.186	DJ	mg/Kg-dry	10	8/14/2019 12:12:41 PM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	8/14/2019 12:12:41 PM
Tetrachloroethene (PCE)	0.336	0.233	D	mg/Kg-dry	10	8/14/2019 12:12:41 PM
Surr: Dibromofluoromethane	99.7	56.5 - 129	D	%Rec	10	8/14/2019 12:12:41 PM
Surr: Toluene-d8	98.1	64.5 - 151	D	%Rec	10	8/14/2019 12:12:41 PM
Surr: 1-Bromo-4-fluorobenzene	97.9	54.8 - 168	D	%Rec	10	8/14/2019 12:12:41 PM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.08	0.500		wt%	1	8/13/2019 4:33:04 PM
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Analytical Report

Work Order: 1908185

Date Reported: 8/14/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908185-019

Client Sample ID: 04-13-106-12

Collection Date: 8/13/2019 2:16:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25488

Analyst: KT

Vinyl chloride	ND	0.226	D	mg/Kg-dry	10	8/14/2019 12:42:51 PM
cis-1,2-Dichloroethene	ND	0.181	D	mg/Kg-dry	10	8/14/2019 12:42:51 PM
Trichloroethene (TCE)	ND	0.181	D	mg/Kg-dry	10	8/14/2019 12:42:51 PM
Tetrachloroethene (PCE)	ND	0.226	D	mg/Kg-dry	10	8/14/2019 12:42:51 PM
Surr: Dibromofluoromethane	99.2	56.5 - 129	D	%Rec	10	8/14/2019 12:42:51 PM
Surr: Toluene-d8	98.9	64.5 - 151	D	%Rec	10	8/14/2019 12:42:51 PM
Surr: 1-Bromo-4-fluorobenzene	95.1	54.8 - 168	D	%Rec	10	8/14/2019 12:42:51 PM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	6.88	0.500	wt%	1	8/13/2019 4:33:04 PM
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Lab ID: 1908185-020

Client Sample ID: B-963-10

Collection Date: 8/13/2019 9:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25488

Analyst: KT

Vinyl chloride	ND	0.223	D	mg/Kg-dry	10	8/14/2019 1:12:58 PM
cis-1,2-Dichloroethene	0.159	0.178	DJ	mg/Kg-dry	10	8/14/2019 1:12:58 PM
Trichloroethene (TCE)	ND	0.178	D	mg/Kg-dry	10	8/14/2019 1:12:58 PM
Tetrachloroethene (PCE)	0.286	0.223	D	mg/Kg-dry	10	8/14/2019 1:12:58 PM
Surr: Dibromofluoromethane	98.4	56.5 - 129	D	%Rec	10	8/14/2019 1:12:58 PM
Surr: Toluene-d8	98.8	64.5 - 151	D	%Rec	10	8/14/2019 1:12:58 PM
Surr: 1-Bromo-4-fluorobenzene	94.7	54.8 - 168	D	%Rec	10	8/14/2019 1:12:58 PM

Sample Moisture (Percent Moisture)

Batch ID: R53229

Analyst: SBM

Percent Moisture	7.15	0.500	wt%	1	8/13/2019 4:33:04 PM
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Date: 8/14/2019

Work Order: 1908185
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-25479		SampType: LCS			Units: mg/Kg		Prep Date: 8/13/2019			RunNo: 53233		
Client ID: LCSS		Batch ID: 25479			Analysis Date: 8/13/2019			SeqNo: 1052325				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.978	0.0250	1.000	0	97.8	43.4	151				
cis-1,2-Dichloroethene	0.985	0.0200	1.000	0	98.5	71.3	135				
Trichloroethene (TCE)	0.969	0.0200	1.000	0	96.9	65.5	137				
Tetrachloroethene (PCE)	0.979	0.0250	1.000	0	97.9	52.7	150				
Surr: Dibromofluoromethane	1.16		1.250		93.1	56.5	129				
Surr: Toluene-d8	1.25		1.250		99.9	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		102	54.8	168				

Sample ID: MB-25479		SampType: MBLK			Units: mg/Kg		Prep Date: 8/13/2019		RunNo: 53233		
Client ID: MBLKS		Batch ID: 25479			Analysis Date: 8/13/2019				SeqNo: 1052326		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.17		1.250		93.9	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.9	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		95.5	54.8	168				

Sample ID: 1908174-001BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/13/2019			RunNo: 53233		
Client ID: BATCH		Batch ID: 25479			Analysis Date: 8/13/2019			SeqNo: 1052299				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.241						0	0	30	D
cis-1,2-Dichloroethene	ND	0.193						0	0	30	D
Trichloroethene (TCE)	ND	0.193						0	0	30	D
Tetrachloroethene (PCE)	0.525	0.241						0.5841	10.6	30	D
Surr: Dibromofluoromethane	12.3		12.07		102	56.5	129		0		D
Surr: Toluene-d8	12.0		12.07		99.7	64.5	151		0		D

Work Order: 1908185
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908174-001BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/13/2019		RunNo: 53233		
Client ID: BATCH		Batch ID: 25479			Analysis Date: 8/13/2019				SeqNo: 1052299		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	11.6		12.07		96.3	54.8	168		0		D
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Sample ID: 1908174-006BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/13/2019			RunNo: 53233		
Client ID: BATCH		Batch ID: 25479			Analysis Date: 8/13/2019					SeqNo: 1052307		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.284						0	0	30	D
cis-1,2-Dichloroethene	ND	0.228						0	0	30	D
Trichloroethene (TCE)	ND	0.228						0	0	30	D
Tetrachloroethene (PCE)	0.314	0.284						0.2609	18.4	30	D
Surr: Dibromofluoromethane	14.6		14.22		103	56.5	129		0		D
Surr: Toluene-d8	13.9		14.22		97.6	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.7		14.22		96.2	54.8	168		0		D

Sample ID: 1908174-002BMS		SampType: MS			Units: mg/Kg-dry		Prep Date: 8/13/2019		RunNo: 53233		
Client ID: BATCH		Batch ID: 25479			Analysis Date: 8/13/2019				SeqNo: 1052301		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	11.0	0.268	10.71	0	102	43.6	150				D
cis-1,2-Dichloroethene	11.2	0.214	10.71	0	105	58.6	136				D
Trichloroethene (TCE)	11.3	0.214	10.71	0	106	61.6	147				D
Tetrachloroethene (PCE)	11.3	0.268	10.71	0	106	35.6	158				D
Surr: Dibromofluoromethane	13.2		13.39		98.4	56.5	129				D
Surr: Toluene-d8	13.6		13.39		102	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	13.8		13.39		103	54.8	168				D



Date: 8/14/2019

Work Order: 1908185
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908174-002BMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 8/13/2019			RunNo: 53233		
Client ID: BATCH	Batch ID: 25479	Analysis Date: 8/13/2019							SeqNo: 1052302		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	11.5	0.268	10.71	0	107	43.6	150	10.97	4.36	30	D
cis-1,2-Dichloroethene	11.1	0.214	10.71	0	104	58.6	136	11.21	1.01	30	D
Trichloroethene (TCE)	11.2	0.214	10.71	0	104	61.6	147	11.35	1.65	30	D
Tetrachloroethene (PCE)	11.2	0.268	10.71	0	105	35.6	158	11.35	1.13	30	D
Surr: Dibromofluoromethane	13.2		13.39		98.9	56.5	129		0		D
Surr: Toluene-d8	13.6		13.39		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.8		13.39		103	54.8	168		0		D

Sample ID: LCS-25488	SampType: LCS	Units: mg/Kg				Prep Date: 8/14/2019			RunNo: 53251		
Client ID: LCSS	Batch ID: 25488	Analysis Date: 8/14/2019							SeqNo: 1052762		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.23	0.0250	1.000	0	123	43.4	151				
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	71.3	135				
Trichloroethene (TCE)	1.02	0.0200	1.000	0	102	65.5	137				
Tetrachloroethene (PCE)	1.03	0.0250	1.000	0	103	52.7	150				
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.28		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	54.8	168				

Sample ID: MB-25488	SampType: MBLK	Units: mg/Kg			Prep Date: 8/14/2019			RunNo: 53251			
Client ID: MBLKS	Batch ID: 25488				Analysis Date: 8/14/2019			SeqNo: 1052763			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.27		1.250		102	64.5	151				

Work Order: 1908185
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: MB-25488		SampType: MBLK			Units: mg/Kg		Prep Date: 8/14/2019			RunNo: 53251		
Client ID: MBLKS		Batch ID: 25488			Analysis Date: 8/14/2019			SeqNo: 1052763				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: 1-Bromo-4-fluorobenzene 1.19 1.250 95.0 54.8 168

Sample ID: 1908185-014BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/14/2019			RunNo: 53251		
Client ID: 04-OB-003-13		Batch ID: 25488			Analysis Date: 8/14/2019			SeqNo: 1052752				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.221						0	0	30	D
cis-1,2-Dichloroethene	ND	0.177						0	0	30	D
Trichloroethene (TCE)	ND	0.177						0	0	30	D
Tetrachloroethene (PCE)	ND	0.221						0	0	30	D
Surr: Dibromofluoromethane	11.3		11.05		102	56.5	129		0		D
Surr: Toluene-d8	11.1		11.05		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.8		11.05		98.0	54.8	168		0		D

Sample ID: 1908185-020BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/14/2019			RunNo: 53251		
Client ID: B-963-10		Batch ID: 25488					Analysis Date: 8/14/2019			SeqNo: 1052759	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	10.2	0.223	8.910	0	114	43.6	150				D
cis-1,2-Dichloroethene	9.42	0.178	8.910	0.1591	104	58.6	136				D
Trichloroethene (TCE)	9.48	0.178	8.910	0	106	61.6	147				D
Tetrachloroethene (PCE)	9.86	0.223	8.910	0.2856	107	35.6	158				D
Surr: Dibromofluoromethane	10.8		11.14		97.3	56.5	129				D
Surr: Toluene-d8	11.3		11.14		102	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	11.3		11.14		102	54.8	168				D

Work Order: 1908185
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908185-020BMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 8/14/2019			RunNo: 53251		
Client ID: B-963-10	Batch ID: 25488	Analysis Date: 8/14/2019							SeqNo: 1052760		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	10.3	0.223	8.910	0	116	43.6	150	10.19	1.47	30	D
cis-1,2-Dichloroethene	9.20	0.178	8.910	0.1591	101	58.6	136	9.419	2.36	30	D
Trichloroethene (TCE)	9.12	0.178	8.910	0	102	61.6	147	9.482	3.90	30	D
Tetrachloroethene (PCE)	9.51	0.223	8.910	0.2856	104	35.6	158	9.859	3.55	30	D
Surr: Dibromofluoromethane	10.8		11.14		97.1	56.5	129		0		D
Surr: Toluene-d8	11.2		11.14		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.5		11.14		103	54.8	168		0		D



Work Order: 1908185
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1908185-004ADUP		SampType: DUP			Units: wt%		Prep Date: 8/13/2019			RunNo: 53229		
Client ID: 04-OB-104-13		Batch ID: R53229						Analysis Date: 8/13/2019			SeqNo: 1052353	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Percent Moisture	7.70	0.500						7.319	5.06	20	
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Sample ID: 1908185-011ADUP		SampType: DUP			Units: wt%		Prep Date: 8/13/2019			RunNo: 53229		
Client ID: 04-OB-002-14		Batch ID: R53229			Analysis Date: 8/13/2019			SeqNo: 1052385				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Percent Moisture	7.38	0.500						7.387	0.150	20	
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Client Name: **PES**
 Logged by: **Carissa True**

Work Order Number: **1908185**
 Date Received: **8/13/2019 2:59:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☒ NA ☐
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler 1	0.0
Sample 1	1.2

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8-13-19 Page: 1 of 2

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: R. McLaughlin/K. Zygas

Location: SEATTLE WA

Report to (PM): B. ONEAL

PM Email: BONEAL@FREMONTANALYTICAL.COM

Laboratory Project No (Internal): 1908185
Special Remarks: SELECT VOCs, PCE, CIS-1,2, DCE, VC, RUSTAT (USED EOD)

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL

Address: 1215 4th AVE STE 1350

City, State, Zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Sample Type (Matrix)*																Comments
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)				
1 04-08-103-14	8/13/19	1340	S	X														RUSH TAT		
2 04-08-103-13		1448																		
3 04-08-104-14		1354																		
4 04-08-104-13		1356																		
5 04-08-105-13		1404																		
6 04-08-105-14		1402																		
7 04-08-106-14		1412																		
8 04-08-106-13		1414																		
9 04-08-001-14		1348																		
10 04-08-001-13	X	1352	S	X																

Turn-around Time:

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
X	8/13/19 1446	X	8/13/19
Relinquished	Date/Time	Received	Date/Time
X		X	



3600 Fremont Ave N
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8-13-19

Page: 2 of: 2

Laboratory Project No (internal):

1903185

Project Name: AMERICAN LINE N

Special Remarks

SELECTVOCs: TCE, PCE, cis-1,2 DC

Project No

565

Collected by:

Location:

PAGE

RUSH TAT (USED EOD)
418 HR (FRI AM)

Telephone:

7

7

sample disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Fa	
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PM Email:

[illegible]

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

[illegible]

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time
	2/12/10 11:00

Date/Time

Relinquished	Date/Time
08	7

Received

Date/Time

X

✕

Same Day

_____ (specify)

Turn-around Time:

☐ Standard☐ 3 Day

☒ 2 Day

☒ Next Day



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1908279

August 22, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 14 sample(s) on 8/20/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Dan Balbiani
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1908279

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908279-001	04-11-103-10	08/20/2019 12:30 PM	08/20/2019 1:55 PM
1908279-002	04-09-103-08	08/20/2019 12:35 PM	08/20/2019 1:55 PM
1908279-003	04-07-103-06	08/20/2019 12:45 PM	08/20/2019 1:55 PM
1908279-004	04-11-106-10	08/20/2019 12:50 PM	08/20/2019 1:55 PM
1908279-005	04-09-106-08	08/20/2019 12:55 PM	08/20/2019 1:55 PM
1908279-006	04-07-106-06	08/20/2019 1:00 PM	08/20/2019 1:55 PM
1908279-007	04-11-105-10	08/20/2019 1:02 PM	08/20/2019 1:55 PM
1908279-008	04-09-105-08	08/20/2019 1:05 PM	08/20/2019 1:55 PM
1908279-009	04-07-105-06	08/20/2019 1:10 PM	08/20/2019 1:55 PM
1908279-010	TB-082019-2	08/20/2019 12:00 PM	08/20/2019 1:55 PM
1908279-011	B-965-10	08/20/2019 12:00 PM	08/20/2019 1:55 PM
1908279-012	04-11-104-10	08/20/2019 1:20 PM	08/20/2019 1:55 PM
1908279-013	04-09-104-08	08/20/2019 1:22 PM	08/20/2019 1:55 PM
1908279-014	04-07-104-06	08/20/2019 1:25 PM	08/20/2019 1:55 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1908279

Date Reported: 8/22/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908279-001

Client Sample ID: 04-11-103-10

Collection Date: 8/20/2019 12:30:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25537

Analyst: CR

Vinyl chloride	ND	0.125	D	mg/Kg-dry	10	8/20/2019 11:10:28 PM
cis-1,2-Dichloroethene	0.412	0.100	D	mg/Kg-dry	10	8/20/2019 11:10:28 PM
Trichloroethene (TCE)	0.111	0.100	D	mg/Kg-dry	10	8/20/2019 11:10:28 PM
Tetrachloroethene (PCE)	20.0	1.25	D	mg/Kg-dry	100	8/21/2019 8:57:05 AM
Surr: Dibromofluoromethane	98.3	56.5 - 129	D	%Rec	10	8/20/2019 11:10:28 PM
Surr: Toluene-d8	99.1	64.5 - 151	D	%Rec	10	8/20/2019 11:10:28 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	8/20/2019 11:10:28 PM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	14.0	0.500	wt%	1	8/21/2019 8:15:06 AM
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Lab ID: 1908279-002

Client Sample ID: 04-09-103-08

Collection Date: 8/20/2019 12:35:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25537

Analyst: CR

Vinyl chloride	ND	0.261	D	mg/Kg-dry	10	8/20/2019 11:40:37 PM
cis-1,2-Dichloroethene	ND	0.209	D	mg/Kg-dry	10	8/20/2019 11:40:37 PM
Trichloroethene (TCE)	0.702	0.209	D	mg/Kg-dry	10	8/20/2019 11:40:37 PM
Tetrachloroethene (PCE)	17.3	0.261	D	mg/Kg-dry	10	8/20/2019 11:40:37 PM
Surr: Dibromofluoromethane	97.2	56.5 - 129	D	%Rec	10	8/20/2019 11:40:37 PM
Surr: Toluene-d8	97.9	64.5 - 151	D	%Rec	10	8/20/2019 11:40:37 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	8/20/2019 11:40:37 PM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	13.8	0.500	wt%	1	8/21/2019 8:15:06 AM
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Analytical Report

Work Order: 1908279

Date Reported: 8/22/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908279-003

Client Sample ID: 04-07-103-06

Collection Date: 8/20/2019 12:45:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25537

Analyst: CR

Vinyl chloride	ND	0.223	D	mg/Kg-dry	10	8/21/2019 12:10:46 AM
cis-1,2-Dichloroethene	0.344	0.178	D	mg/Kg-dry	10	8/21/2019 12:10:46 AM
Trichloroethene (TCE)	0.446	0.178	D	mg/Kg-dry	10	8/21/2019 12:10:46 AM
Tetrachloroethene (PCE)	6.27	0.223	D	mg/Kg-dry	10	8/21/2019 12:10:46 AM
Surr: Dibromofluoromethane	96.7	56.5 - 129	D	%Rec	10	8/21/2019 12:10:46 AM
Surr: Toluene-d8	98.3	64.5 - 151	D	%Rec	10	8/21/2019 12:10:46 AM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	8/21/2019 12:10:46 AM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	8.52	0.500	wt%	1	8/21/2019 8:15:06 AM
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Lab ID: 1908279-004

Client Sample ID: 04-11-106-10

Collection Date: 8/20/2019 12:50:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	0.597	0.276	D	mg/Kg-dry	10	8/21/2019 9:57:22 AM
cis-1,2-Dichloroethene	4.38	0.221	D	mg/Kg-dry	10	8/21/2019 9:57:22 AM
Trichloroethene (TCE)	ND	0.221	D	mg/Kg-dry	10	8/21/2019 9:57:22 AM
Tetrachloroethene (PCE)	0.438	0.276	D	mg/Kg-dry	10	8/21/2019 9:57:22 AM
Surr: Dibromofluoromethane	98.4	56.5 - 129	D	%Rec	10	8/21/2019 9:57:22 AM
Surr: Toluene-d8	99.0	64.5 - 151	D	%Rec	10	8/21/2019 9:57:22 AM
Surr: 1-Bromo-4-fluorobenzene	96.8	54.8 - 168	D	%Rec	10	8/21/2019 9:57:22 AM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	16.9	0.500	wt%	1	8/21/2019 8:15:06 AM
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Analytical Report

Work Order: 1908279

Date Reported: 8/22/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908279-005

Client Sample ID: 04-09-106-08

Collection Date: 8/20/2019 12:55:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	ND	0.231	D	mg/Kg-dry	10	8/21/2019 10:57:41 AM
cis-1,2-Dichloroethene	0.165	0.185	DJ	mg/Kg-dry	10	8/21/2019 10:57:41 AM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	8/21/2019 10:57:41 AM
Tetrachloroethene (PCE)	ND	0.231	D	mg/Kg-dry	10	8/21/2019 10:57:41 AM
Surr: Dibromofluoromethane	98.0	56.5 - 129	D	%Rec	10	8/21/2019 10:57:41 AM
Surr: Toluene-d8	99.5	64.5 - 151	D	%Rec	10	8/21/2019 10:57:41 AM
Surr: 1-Bromo-4-fluorobenzene	96.1	54.8 - 168	D	%Rec	10	8/21/2019 10:57:41 AM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	11.1	0.500	wt%	1	8/21/2019 8:15:06 AM
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Lab ID: 1908279-006

Client Sample ID: 04-07-106-06

Collection Date: 8/20/2019 1:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	ND	0.236	D	mg/Kg-dry	10	8/21/2019 11:27:48 AM
cis-1,2-Dichloroethene	1.86	0.189	D	mg/Kg-dry	10	8/21/2019 11:27:48 AM
Trichloroethene (TCE)	0.163	0.189	DJ	mg/Kg-dry	10	8/21/2019 11:27:48 AM
Tetrachloroethene (PCE)	5.49	0.236	D	mg/Kg-dry	10	8/21/2019 11:27:48 AM
Surr: Dibromofluoromethane	96.1	56.5 - 129	D	%Rec	10	8/21/2019 11:27:48 AM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	8/21/2019 11:27:48 AM
Surr: 1-Bromo-4-fluorobenzene	95.4	54.8 - 168	D	%Rec	10	8/21/2019 11:27:48 AM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	8.52	0.500	wt%	1	8/21/2019 8:15:06 AM
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Analytical Report

Work Order: 1908279

Date Reported: 8/22/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908279-007

Client Sample ID: 04-11-105-10

Collection Date: 8/20/2019 1:02:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	0.482	0.270	D	mg/Kg-dry	10	8/21/2019 11:57:59 AM
cis-1,2-Dichloroethene	10.6	0.216	D	mg/Kg-dry	10	8/21/2019 11:57:59 AM
Trichloroethene (TCE)	0.107	0.216	DJ	mg/Kg-dry	10	8/21/2019 11:57:59 AM
Tetrachloroethene (PCE)	10.0	0.270	D	mg/Kg-dry	10	8/21/2019 11:57:59 AM
Surr: Dibromofluoromethane	97.4	56.5 - 129	D	%Rec	10	8/21/2019 11:57:59 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	8/21/2019 11:57:59 AM
Surr: 1-Bromo-4-fluorobenzene	97.2	54.8 - 168	D	%Rec	10	8/21/2019 11:57:59 AM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	10.8	0.500	wt%	1	8/21/2019 8:15:06 AM
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Lab ID: 1908279-008

Client Sample ID: 04-09-105-08

Collection Date: 8/20/2019 1:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	8/21/2019 12:28:07 PM
cis-1,2-Dichloroethene	ND	0.187	D	mg/Kg-dry	10	8/21/2019 12:28:07 PM
Trichloroethene (TCE)	ND	0.187	D	mg/Kg-dry	10	8/21/2019 12:28:07 PM
Tetrachloroethene (PCE)	0.300	0.233	D	mg/Kg-dry	10	8/21/2019 12:28:07 PM
Surr: Dibromofluoromethane	97.8	56.5 - 129	D	%Rec	10	8/21/2019 12:28:07 PM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	8/21/2019 12:28:07 PM
Surr: 1-Bromo-4-fluorobenzene	97.3	54.8 - 168	D	%Rec	10	8/21/2019 12:28:07 PM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	10.4	0.500	wt%	1	8/21/2019 8:15:06 AM
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Work Order: 1908279

Date Reported: 8/22/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908279-009

Client Sample ID: 04-07-105-06

Collection Date: 8/20/2019 1:10:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	0.131	0.240	DJ	mg/Kg-dry	10	8/21/2019 12:58:17 PM
cis-1,2-Dichloroethene	3.01	0.192	D	mg/Kg-dry	10	8/21/2019 12:58:17 PM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	8/21/2019 12:58:17 PM
Tetrachloroethene (PCE)	0.328	0.240	D	mg/Kg-dry	10	8/21/2019 12:58:17 PM
Surr: Dibromofluoromethane	98.5	56.5 - 129	D	%Rec	10	8/21/2019 12:58:17 PM
Surr: Toluene-d8	98.8	64.5 - 151	D	%Rec	10	8/21/2019 12:58:17 PM
Surr: 1-Bromo-4-fluorobenzene	97.2	54.8 - 168	D	%Rec	10	8/21/2019 12:58:17 PM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	9.69	0.500	wt%	1	8/21/2019 8:15:06 AM
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Lab ID: 1908279-010

Client Sample ID: TB-082019-2

Collection Date: 8/20/2019 12:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	8/21/2019 9:27:14 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/21/2019 9:27:14 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/21/2019 9:27:14 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/21/2019 9:27:14 AM
Surr: Dibromofluoromethane	98.8	56.5 - 129		%Rec	1	8/21/2019 9:27:14 AM
Surr: Toluene-d8	99.6	64.5 - 151		%Rec	1	8/21/2019 9:27:14 AM
Surr: 1-Bromo-4-fluorobenzene	96.8	54.8 - 168		%Rec	1	8/21/2019 9:27:14 AM



Analytical Report

Work Order: 1908279

Date Reported: 8/22/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908279-011

Client Sample ID: B-965-10

Collection Date: 8/20/2019 12:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	8/21/2019 1:28:28 PM
cis-1,2-Dichloroethene	ND	0.201	D	mg/Kg-dry	10	8/21/2019 1:28:28 PM
Trichloroethene (TCE)	0.196	0.201	DJ	mg/Kg-dry	10	8/21/2019 1:28:28 PM
Tetrachloroethene (PCE)	23.0	2.51	D	mg/Kg-dry	100	8/22/2019 8:42:22 AM
Surr: Dibromofluoromethane	98.0	56.5 - 129	D	%Rec	10	8/21/2019 1:28:28 PM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	8/21/2019 1:28:28 PM
Surr: 1-Bromo-4-fluorobenzene	96.5	54.8 - 168	D	%Rec	10	8/21/2019 1:28:28 PM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	12.4	0.500		wt%	1	8/21/2019 8:15:06 AM
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Lab ID: 1908279-012

Client Sample ID: 04-11-104-10

Collection Date: 8/20/2019 1:20:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	ND	0.213	D	mg/Kg-dry	10	8/21/2019 1:58:36 PM
cis-1,2-Dichloroethene	ND	0.170	D	mg/Kg-dry	10	8/21/2019 1:58:36 PM
Trichloroethene (TCE)	ND	0.170	D	mg/Kg-dry	10	8/21/2019 1:58:36 PM
Tetrachloroethene (PCE)	0.273	0.213	D	mg/Kg-dry	10	8/21/2019 1:58:36 PM
Surr: Dibromofluoromethane	98.2	56.5 - 129	D	%Rec	10	8/21/2019 1:58:36 PM
Surr: Toluene-d8	98.4	64.5 - 151	D	%Rec	10	8/21/2019 1:58:36 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	54.8 - 168	D	%Rec	10	8/21/2019 1:58:36 PM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	12.1	0.500		wt%	1	8/21/2019 8:15:06 AM
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Analytical Report

Work Order: 1908279

Date Reported: 8/22/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908279-013

Client Sample ID: 04-09-104-08

Collection Date: 8/20/2019 1:22:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	ND	0.243	D	mg/Kg-dry	10	8/21/2019 2:28:46 PM
cis-1,2-Dichloroethene	ND	0.194	D	mg/Kg-dry	10	8/21/2019 2:28:46 PM
Trichloroethene (TCE)	ND	0.194	D	mg/Kg-dry	10	8/21/2019 2:28:46 PM
Tetrachloroethene (PCE)	0.170	0.243	DJ	mg/Kg-dry	10	8/21/2019 2:28:46 PM
Surr: Dibromofluoromethane	97.0	56.5 - 129	D	%Rec	10	8/21/2019 2:28:46 PM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	8/21/2019 2:28:46 PM
Surr: 1-Bromo-4-fluorobenzene	95.9	54.8 - 168	D	%Rec	10	8/21/2019 2:28:46 PM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	11.3	0.500		wt%	1	8/21/2019 8:15:06 AM
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Lab ID: 1908279-014

Client Sample ID: 04-07-104-06

Collection Date: 8/20/2019 1:25:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25570

Analyst: KT

Vinyl chloride	ND	0.247	D	mg/Kg-dry	10	8/21/2019 4:10:02 PM
cis-1,2-Dichloroethene	1.23	0.198	D	mg/Kg-dry	10	8/21/2019 4:10:02 PM
Trichloroethene (TCE)	ND	0.198	D	mg/Kg-dry	10	8/21/2019 4:10:02 PM
Tetrachloroethene (PCE)	0.228	0.247	DJ	mg/Kg-dry	10	8/21/2019 4:10:02 PM
Surr: Dibromofluoromethane	97.5	56.5 - 129	D	%Rec	10	8/21/2019 4:10:02 PM
Surr: Toluene-d8	98.0	64.5 - 151	D	%Rec	10	8/21/2019 4:10:02 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	54.8 - 168	D	%Rec	10	8/21/2019 4:10:02 PM

Sample Moisture (Percent Moisture)

Batch ID: R53376

Analyst: SBM

Percent Moisture	9.31	0.500		wt%	1	8/21/2019 8:15:06 AM
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Work Order: 1908279
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-25537		SampType: LCS			Units: mg/Kg		Prep Date: 8/19/2019			RunNo: 53372		
Client ID: LCSS		Batch ID: 25537			Analysis Date: 8/20/2019			SeqNo: 1055848				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.962	0.0250	1.000	0	96.2	43.4	151				
cis-1,2-Dichloroethene	0.991	0.0200	1.000	0	99.1	71.3	135				
Trichloroethene (TCE)	0.970	0.0200	1.000	0	97.0	65.5	137				
Tetrachloroethene (PCE)	0.970	0.0250	1.000	0	97.0	52.7	150				
Surr: Dibromofluoromethane	1.27		1.250		102	56.5	129				
Surr: Toluene-d8	1.25		1.250		100	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.24		1.250		99.1	54.8	168				

Sample ID: MB-25537		SampType: MBLK			Units: mg/Kg		Prep Date: 8/19/2019		RunNo: 53372		
Client ID: MBLKS		Batch ID: 25537			Analysis Date: 8/20/2019				SeqNo: 1055849		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.21		1.250		96.9	56.5	129				
Surr: Toluene-d8	1.24		1.250		98.9	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.24		1.250		98.9	54.8	168				

Sample ID: 1908277-007BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/19/2019			RunNo: 53372		
Client ID: BATCH		Batch ID: 25537			Analysis Date: 8/20/2019			SeqNo: 1055937				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.237						0	0	30	D
cis-1,2-Dichloroethene	ND	0.189						0	0	30	D
Trichloroethene (TCE)	ND	0.189						0	0	30	D
Tetrachloroethene (PCE)	ND	0.237						0	0	30	D
Surr: Dibromofluoromethane	11.6		11.83		98.1	56.5	129		0		D
Surr: Toluene-d8	11.6		11.83		98.0	64.5	151		0		D

Work Order: 1908279
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908277-007BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 8/19/2019		RunNo: 53372			
Client ID: BATCH		Batch ID: 25537				Analysis Date: 8/20/2019		SeqNo: 1055937			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	12.1		11.83		102	54.8	168		0		D

Sample ID: 1908231-002BDUP	SampType: DUP	Units: mg/Kg-dry				Prep Date: 8/19/2019			RunNo: 53372		
Client ID: BATCH	Batch ID: 25537	Analysis Date: 8/20/2019							SeqNo: 1055926		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0181						0	0	30	
cis-1,2-Dichloroethene	ND	0.0145						0	0	30	
Trichloroethene (TCE)	ND	0.0145						0	0	30	
Tetrachloroethene (PCE)	ND	0.0181						0	0	30	
Surr: Dibromofluoromethane	0.902		0.9048		99.6	56.5	129		0		
Surr: Toluene-d8	0.893		0.9048		98.7	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	0.887		0.9048		98.1	54.8	168		0		

Sample ID: 1908246-001BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/19/2019		RunNo: 53372			
Client ID: BATCH		Batch ID: 25537				Analysis Date: 8/21/2019		SeqNo: 1055927			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.24	0.0331	1.325	0	93.2	43.6	150				
cis-1,2-Dichloroethene	1.36	0.0265	1.325	0	102	58.6	136				
Trichloroethene (TCE)	1.33	0.0265	1.325	0	100	61.6	147				
Tetrachloroethene (PCE)	1.32	0.0331	1.325	0	99.5	35.6	158				
Surr: Dibromofluoromethane	1.65		1.657		99.9	56.5	129				
Surr: Toluene-d8	1.63		1.657		98.2	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.63		1.657		98.1	54.8	168				

Work Order: 1908279
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908246-001BMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 8/19/2019			RunNo: 53372		
Client ID: BATCH	Batch ID: 25537	Analysis Date: 8/21/2019							SeqNo: 1055928		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.23	0.0331	1.325	0	92.6	43.6	150	1.235	0.619	30	
cis-1,2-Dichloroethene	1.34	0.0265	1.325	0	101	58.6	136	1.356	0.834	30	
Trichloroethene (TCE)	1.31	0.0265	1.325	0	98.8	61.6	147	1.330	1.56	30	
Tetrachloroethene (PCE)	1.33	0.0331	1.325	0	101	35.6	158	1.319	1.02	30	
Surr: Dibromofluoromethane	1.66		1.657		100	56.5	129		0		
Surr: Toluene-d8	1.62		1.657		97.9	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.62		1.657		97.6	54.8	168		0		

Sample ID: MB-25570	SampType: MBLK	Units: mg/Kg			Prep Date: 8/21/2019			RunNo: 53404			
Client ID: MBLKS	Batch ID: 25570	Analysis Date: 8/21/2019						SeqNo: 1056516			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.22		1.250		97.3	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.7	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.1	54.8	168				

Sample ID: LCS-25570	SampType: LCS	Units: mg/Kg				Prep Date: 8/21/2019			RunNo: 53404		
Client ID: LCSS	Batch ID: 25570	Analysis Date: 8/21/2019							SeqNo: 1056515		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.859	0.0250	1.000	0	85.9	43.4	151				
cis-1,2-Dichloroethene	0.987	0.0200	1.000	0	98.7	71.3	135				
Trichloroethene (TCE)	0.963	0.0200	1.000	0	96.3	65.5	137				
Tetrachloroethene (PCE)	0.993	0.0250	1.000	0	99.3	52.7	150				
Surr: Dibromofluoromethane	1.27		1.250		102	56.5	129				
Surr: Toluene-d8	1.25		1.250		100	64.5	151				

Work Order: 1908279
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-25570		SampType: LCS			Units: mg/Kg		Prep Date: 8/21/2019			RunNo: 53404		
Client ID: LCSS		Batch ID: 25570			Analysis Date: 8/21/2019			SeqNo: 1056515				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.1	54.8	168				
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Sample ID: 1908279-004BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/21/2019			RunNo: 53404		
Client ID: 04-11-106-10		Batch ID: 25570			Analysis Date: 8/21/2019			SeqNo: 1056501				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.642	0.276						0.5969	7.24	30	D
cis-1,2-Dichloroethene	4.78	0.221						4.380	8.82	30	D
Trichloroethene (TCE)	ND	0.221						0	0	30	D
Tetrachloroethene (PCE)	0.502	0.276						0.4384	13.5	30	D
Surr: Dibromofluoromethane	13.5		13.79		97.9	56.5	129		0		D
Surr: Toluene-d8	13.6		13.79		98.6	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.3		13.79		96.7	54.8	168		0		D

Sample ID: 1908246-010BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/21/2019		RunNo: 53404		
Client ID: BATCH		Batch ID: 25570			Analysis Date: 8/21/2019				SeqNo: 1056489		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0338						0	0	30	
cis-1,2-Dichloroethene	ND	0.0270						0	0	30	
Trichloroethene (TCE)	ND	0.0270						0	0	30	
Tetrachloroethene (PCE)	ND	0.0338						0	0	30	
Surr: Dibromofluoromethane	1.65		1.690		97.5	56.5	129		0		
Surr: Toluene-d8	1.65		1.690		97.9	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.62		1.690		96.1	54.8	168		0		

Work Order: 1908279
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908279-005BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/21/2019		RunNo: 53404			
Client ID: 04-09-106-08		Batch ID: 25570				Analysis Date: 8/21/2019		SeqNo: 1056491			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	7.98	0.231	9.254	0	86.3	43.6	150				D
cis-1,2-Dichloroethene	9.27	0.185	9.254	0.1645	98.4	58.6	136				D
Trichloroethene (TCE)	8.98	0.185	9.254	0	97.0	61.6	147				D
Tetrachloroethene (PCE)	9.20	0.231	9.254	0	99.4	35.6	158				D
Surr: Dibromofluoromethane	11.8		11.57		102	56.5	129				D
Surr: Toluene-d8	11.5		11.57		99.8	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	11.1		11.57		96.1	54.8	168				D

Sample ID: 1908279-005BMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 8/21/2019		RunNo: 53404			
Client ID: 04-09-106-08		Batch ID: 25570				Analysis Date: 8/21/2019		SeqNo: 1056492			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	7.92	0.231	9.254	0	85.6	43.6	150	7.982	0.754	30	D
cis-1,2-Dichloroethene	9.31	0.185	9.254	0.1645	98.9	58.6	136	9.273	0.436	30	D
Trichloroethene (TCE)	8.96	0.185	9.254	0	96.8	61.6	147	8.978	0.172	30	D
Tetrachloroethene (PCE)	9.33	0.231	9.254	0	101	35.6	158	9.197	1.39	30	D
Surr: Dibromofluoromethane	11.8		11.57		102	56.5	129		0		D
Surr: Toluene-d8	11.5		11.57		99.1	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.1		11.57		96.2	54.8	168		0		D



Work Order: 1908279
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1908279-005ADUP		SampType: DUP			Units: wt%		Prep Date: 8/21/2019			RunNo: 53376		
Client ID: 04-09-106-08		Batch ID: R53376			Analysis Date: 8/21/2019			SeqNo: 1055948				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	11.0	0.500						11.05	0.919	20		

Sample ID: 1908271-001ADUP		SampType: DUP		Units: wt%		Prep Date: 8/21/2019			RunNo: 53376		
Client ID: BATCH		Batch ID: R53376					Analysis Date: 8/21/2019			SeqNo: 1055960	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	17.6	0.500						17.82	1.44	20	

Client Name: **PES**

Work Order Number: **1908279**

Logged by: **Clare Griggs**

Date Received: **8/20/2019 1:55:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Cooler	4.6
Sample	3.2

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8-20-19 Page: 1 of 2

Project Name: American Linen

Project No: 1413.001.05.402

Collected by: K. Zayas/B. Heldt

Location: Seattle, WA

Report To (PM): Brian Draz

PM Email: BONDALCO.PES@EM.COM

Laboratory Project No (Internal): 19082779

Special Remarks: Select List VOC's: PCE, TCE, CIS-1,2 DCE, VC

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL, INC
Address: 1215 4th Ave, Ste. 1350
City, State, zip: Seattle, WA 98161
Telephone: 206 529 3980
Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (C)***	EDB (8011)	Comments
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1	04-11-103-10	8/24/19	1230	S	X													EOD Wed 8/21
2	04-09-103-08		1235		X													T.A.T
3	04-07-103-06		1245		X													
4	04-11-106-10		1250		X													
5	04-09-106-08		1255		X													
6	04-07-106-06		1300		X													
7	04-11-105-10		1302		X													
8	04-09-105-08		1305		X													
9	04-07-105-06		1310		X													
10	TR-082019-2		1200		X													TRIP BLANK

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time	Turn-around Time:
x	8-20-19 @ 13:55	x	8/20/19 13:55	☐ Standard
Relinquished	Date/Time	Received	Date/Time	☐ 2 Day
x		x		☒ Next Day
				☐ Same Day (specify)



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8-20-19 Page: 4 of: 4

Project Name: American 4m

Project No: 1413.001.05.402

Collected by: K. Ziegler / B. Heckel

Location: Amateur Co. Seattle, WA

Report To (PM): B. Oneal

PM Email: BONEAL@PESSEM.COM

Laboratory Project No (internal):

Special Remarks:

Select List VOCs: PCE, TCE, C15-13, DCE, VC

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Client: PES Environmental
Address: 1215 4th Ave Ste. 1350
City, State, Zip: Seattle, WA 98161
Telephone: (206) 529-3980
Fax: (206) 529-3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 <u>B-965-16</u>	<u>8-20-19</u>	<u>1200</u>	<u>S</u>	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
2 <u>04-11-104-10</u>	<u>1320</u>	<u>1320</u>	<u>1</u>	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
3 <u>04-09-104-08</u>	<u>1322</u>	<u>1322</u>	<u>1</u>	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
4 <u>04-07-104-06</u>	<u>1325</u>	<u>1325</u>	<u>1</u>	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	
5																
6																
7																
8																
9																
10																

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
<u>13m</u>	<u>8-20-19 @ 1355</u>	<u>[Signature]</u>	<u>8/20/19 13:55</u>
Relinquished	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>8-20-19 @ 1355</u>	<u>[Signature]</u>	<u>8/20/19 13:55</u>

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☒ Next Day

Same Day (Specify)



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1908308

August 23, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 14 sample(s) on 8/22/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:
Dan Balbiani
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1908308

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908308-001	04-11-114-10	08/20/2019 11:15 AM	08/22/2019 1:06 PM
1908308-002	04-09-114-08	08/20/2019 11:20 AM	08/22/2019 1:06 PM
1908308-003	04-11-113-10	08/20/2019 11:30 AM	08/22/2019 1:06 PM
1908308-004	04-09-113-08	08/20/2019 11:40 AM	08/22/2019 1:06 PM
1908308-005	04-11-115-10	08/20/2019 11:48 AM	08/22/2019 1:06 PM
1908308-006	04-09-115-08	08/20/2019 11:45 AM	08/22/2019 1:06 PM
1908308-007	04-13-201-12	08/20/2019 11:50 AM	08/22/2019 1:06 PM
1908308-008	04-13-201-11	08/20/2019 11:58 AM	08/22/2019 1:06 PM
1908308-009	04-13-202-12	08/20/2019 12:00 PM	08/22/2019 1:06 PM
1908308-010	04-11-202-10.5	08/20/2019 12:03 PM	08/22/2019 1:06 PM
1908308-011	04-13-203-11.5	08/20/2019 12:05 PM	08/22/2019 1:06 PM
1908308-012	04-11-203-10.5	08/20/2019 12:10 PM	08/22/2019 1:06 PM
1908308-013	B-966-08	08/20/2019 10:00 AM	08/22/2019 1:06 PM
1908308-014	TB-082219	08/20/2019 12:15 PM	08/22/2019 1:06 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

8/23/19: Rev1 includes dilution and re-analysis data for samples 3-7.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1908308

Date Reported: 8/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908308-001

Client Sample ID: 04-11-114-10

Collection Date: 8/20/2019 11:15:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	0.686	0.252	D	mg/Kg-dry	10	8/22/2019 4:23:39 PM
cis-1,2-Dichloroethene	8.96	0.201	D	mg/Kg-dry	10	8/22/2019 4:23:39 PM
Trichloroethene (TCE)	0.0751	0.201	DJ	mg/Kg-dry	10	8/22/2019 4:23:39 PM
Tetrachloroethene (PCE)	0.329	0.252	D	mg/Kg-dry	10	8/22/2019 4:23:39 PM
Surr: Dibromofluoromethane	93.9	56.5 - 129	D	%Rec	10	8/22/2019 4:23:39 PM
Surr: Toluene-d8	97.8	64.5 - 151	D	%Rec	10	8/22/2019 4:23:39 PM
Surr: 1-Bromo-4-fluorobenzene	95.8	54.8 - 168	D	%Rec	10	8/22/2019 4:23:39 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	9.21	0.500		wt%	1	8/22/2019 2:18:46 PM
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Lab ID: 1908308-002

Client Sample ID: 04-09-114-08

Collection Date: 8/20/2019 11:20:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.236	D	mg/Kg-dry	10	8/22/2019 4:53:45 PM
cis-1,2-Dichloroethene	0.534	0.188	D	mg/Kg-dry	10	8/22/2019 4:53:45 PM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	8/22/2019 4:53:45 PM
Tetrachloroethene (PCE)	0.509	0.236	D	mg/Kg-dry	10	8/22/2019 4:53:45 PM
Surr: Dibromofluoromethane	96.4	56.5 - 129	D	%Rec	10	8/22/2019 4:53:45 PM
Surr: Toluene-d8	98.0	64.5 - 151	D	%Rec	10	8/22/2019 4:53:45 PM
Surr: 1-Bromo-4-fluorobenzene	95.4	54.8 - 168	D	%Rec	10	8/22/2019 4:53:45 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	10.4	0.500		wt%	1	8/22/2019 2:18:46 PM
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Analytical Report

Work Order: 1908308

Date Reported: 8/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908308-003

Client Sample ID: 04-11-113-10

Collection Date: 8/20/2019 11:30:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.315	D	mg/Kg-dry	10	8/22/2019 5:54:02 PM
cis-1,2-Dichloroethene	ND	0.252	D	mg/Kg-dry	10	8/22/2019 5:54:02 PM
Trichloroethene (TCE)	0.327	0.252	D	mg/Kg-dry	10	8/22/2019 5:54:02 PM
Tetrachloroethene (PCE)	76.4	3.15	D	mg/Kg-dry	100	8/23/2019 10:17:16 AM
Surr: Dibromofluoromethane	94.4	56.5 - 129	D	%Rec	10	8/22/2019 5:54:02 PM
Surr: Toluene-d8	97.1	64.5 - 151	D	%Rec	10	8/22/2019 5:54:02 PM
Surr: 1-Bromo-4-fluorobenzene	95.0	54.8 - 168	D	%Rec	10	8/22/2019 5:54:02 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	17.9	0.500	wt%	1	8/22/2019 2:18:46 PM
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Lab ID: 1908308-004

Client Sample ID: 04-09-113-08

Collection Date: 8/20/2019 11:40:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.242	D	mg/Kg-dry	10	8/22/2019 6:24:11 PM
cis-1,2-Dichloroethene	0.102	0.194	DJ	mg/Kg-dry	10	8/22/2019 6:24:11 PM
Trichloroethene (TCE)	0.432	0.194	D	mg/Kg-dry	10	8/22/2019 6:24:11 PM
Tetrachloroethene (PCE)	62.3	2.42	D	mg/Kg-dry	100	8/23/2019 10:47:25 AM
Surr: Dibromofluoromethane	95.5	56.5 - 129	D	%Rec	10	8/22/2019 6:24:11 PM
Surr: Toluene-d8	98.2	64.5 - 151	D	%Rec	10	8/22/2019 6:24:11 PM
Surr: 1-Bromo-4-fluorobenzene	96.4	54.8 - 168	D	%Rec	10	8/22/2019 6:24:11 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	9.92	0.500	wt%	1	8/22/2019 2:18:46 PM
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Analytical Report

Work Order: 1908308

Date Reported: 8/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908308-005

Client Sample ID: 04-11-115-10

Collection Date: 8/20/2019 11:48:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25594		Analyst: TN
Vinyl chloride	ND	0.245	D	mg/Kg-dry	10	8/22/2019 6:54:20 PM
cis-1,2-Dichloroethene	1.98	0.196	D	mg/Kg-dry	10	8/22/2019 6:54:20 PM
Trichloroethene (TCE)	0.0238	0.196	DJ	mg/Kg-dry	10	8/22/2019 6:54:20 PM
Tetrachloroethene (PCE)	9.93	0.245	D	mg/Kg-dry	10	8/22/2019 6:54:20 PM
Surr: Dibromofluoromethane	94.9	56.5 - 129	D	%Rec	10	8/22/2019 6:54:20 PM
Surr: Toluene-d8	98.0	64.5 - 151	D	%Rec	10	8/22/2019 6:54:20 PM
Surr: 1-Bromo-4-fluorobenzene	96.1	54.8 - 168	D	%Rec	10	8/22/2019 6:54:20 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421 Analyst: SBM

Percent Moisture	9.14	0.500	wt%	1	8/22/2019 2:18:46 PM
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Lab ID: 1908308-006

Client Sample ID: 04-09-115-08

Collection Date: 8/20/2019 11:45:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25594		Analyst: TN
Vinyl chloride	ND	0.243	D	mg/Kg-dry	10	8/22/2019 7:24:27 PM
cis-1,2-Dichloroethene	1.55	0.194	D	mg/Kg-dry	10	8/22/2019 7:24:27 PM
Trichloroethene (TCE)	0.610	0.194	D	mg/Kg-dry	10	8/22/2019 7:24:27 PM
Tetrachloroethene (PCE)	64.0	2.43	D	mg/Kg-dry	100	8/23/2019 11:17:32 AM
Surr: Dibromofluoromethane	95.5	56.5 - 129	D	%Rec	10	8/22/2019 7:24:27 PM
Surr: Toluene-d8	98.0	64.5 - 151	D	%Rec	10	8/22/2019 7:24:27 PM
Surr: 1-Bromo-4-fluorobenzene	95.9	54.8 - 168	D	%Rec	10	8/22/2019 7:24:27 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421 Analyst: SBM

Percent Moisture	10.1	0.500	wt%	1	8/22/2019 2:18:46 PM
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Analytical Report

Work Order: 1908308

Date Reported: 8/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908308-007

Client Sample ID: 04-13-201-12

Collection Date: 8/20/2019 11:50:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.226	D	mg/Kg-dry	10	8/22/2019 7:54:35 PM
cis-1,2-Dichloroethene	ND	0.181	D	mg/Kg-dry	10	8/22/2019 7:54:35 PM
Trichloroethene (TCE)	ND	0.181	D	mg/Kg-dry	10	8/22/2019 7:54:35 PM
Tetrachloroethene (PCE)	0.346	0.226	D	mg/Kg-dry	10	8/22/2019 7:54:35 PM
Surr: Dibromofluoromethane	96.7	56.5 - 129	D	%Rec	10	8/22/2019 7:54:35 PM
Surr: Toluene-d8	97.6	64.5 - 151	D	%Rec	10	8/22/2019 7:54:35 PM
Surr: 1-Bromo-4-fluorobenzene	95.3	54.8 - 168	D	%Rec	10	8/22/2019 7:54:35 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	13.5	0.500		wt%	1	8/22/2019 2:18:46 PM
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Lab ID: 1908308-008

Client Sample ID: 04-13-201-11

Collection Date: 8/20/2019 11:58:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	8/22/2019 8:24:42 PM
cis-1,2-Dichloroethene	ND	0.201	D	mg/Kg-dry	10	8/22/2019 8:24:42 PM
Trichloroethene (TCE)	ND	0.201	D	mg/Kg-dry	10	8/22/2019 8:24:42 PM
Tetrachloroethene (PCE)	0.182	0.251	DJ	mg/Kg-dry	10	8/22/2019 8:24:42 PM
Surr: Dibromofluoromethane	96.0	56.5 - 129	D	%Rec	10	8/22/2019 8:24:42 PM
Surr: Toluene-d8	97.7	64.5 - 151	D	%Rec	10	8/22/2019 8:24:42 PM
Surr: 1-Bromo-4-fluorobenzene	95.4	54.8 - 168	D	%Rec	10	8/22/2019 8:24:42 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	13.3	0.500		wt%	1	8/22/2019 2:18:46 PM
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Analytical Report

Work Order: 1908308

Date Reported: 8/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908308-009

Client Sample ID: 04-13-202-12

Collection Date: 8/20/2019 12:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25594		Analyst: TN
Vinyl chloride	ND	0.316	D	mg/Kg-dry	10	8/22/2019 8:54:51 PM
cis-1,2-Dichloroethene	ND	0.253	D	mg/Kg-dry	10	8/22/2019 8:54:51 PM
Trichloroethene (TCE)	ND	0.253	D	mg/Kg-dry	10	8/22/2019 8:54:51 PM
Tetrachloroethene (PCE)	0.243	0.316	DJ	mg/Kg-dry	10	8/22/2019 8:54:51 PM
Surr: Dibromofluoromethane	95.4	56.5 - 129	D	%Rec	10	8/22/2019 8:54:51 PM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	8/22/2019 8:54:51 PM
Surr: 1-Bromo-4-fluorobenzene	94.7	54.8 - 168	D	%Rec	10	8/22/2019 8:54:51 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421 Analyst: SBM

Percent Moisture	15.2	0.500	wt%	1	8/22/2019 2:18:46 PM
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Lab ID: 1908308-010

Client Sample ID: 04-11-202-10.5

Collection Date: 8/20/2019 12:03:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25594		Analyst: TN
Vinyl chloride	ND	0.240	D	mg/Kg-dry	10	8/22/2019 9:24:58 PM
cis-1,2-Dichloroethene	ND	0.192	D	mg/Kg-dry	10	8/22/2019 9:24:58 PM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	8/22/2019 9:24:58 PM
Tetrachloroethene (PCE)	0.0960	0.240	DJ	mg/Kg-dry	10	8/22/2019 9:24:58 PM
Surr: Dibromofluoromethane	94.9	56.5 - 129	D	%Rec	10	8/22/2019 9:24:58 PM
Surr: Toluene-d8	97.6	64.5 - 151	D	%Rec	10	8/22/2019 9:24:58 PM
Surr: 1-Bromo-4-fluorobenzene	94.8	54.8 - 168	D	%Rec	10	8/22/2019 9:24:58 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421 Analyst: SBM

Percent Moisture	15.5	0.500	wt%	1	8/22/2019 2:18:46 PM
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Analytical Report

Work Order: 1908308

Date Reported: 8/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908308-011

Client Sample ID: 04-13-203-11.5

Collection Date: 8/20/2019 12:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.242	D	mg/Kg-dry	10	8/22/2019 10:25:11 PM
cis-1,2-Dichloroethene	0.0593	0.194	DJ	mg/Kg-dry	10	8/22/2019 10:25:11 PM
Trichloroethene (TCE)	ND	0.194	D	mg/Kg-dry	10	8/22/2019 10:25:11 PM
Tetrachloroethene (PCE)	0.229	0.242	DJ	mg/Kg-dry	10	8/22/2019 10:25:11 PM
Surr: Dibromofluoromethane	95.6	56.5 - 129	D	%Rec	10	8/22/2019 10:25:11 PM
Surr: Toluene-d8	97.6	64.5 - 151	D	%Rec	10	8/22/2019 10:25:11 PM
Surr: 1-Bromo-4-fluorobenzene	94.4	54.8 - 168	D	%Rec	10	8/22/2019 10:25:11 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	14.1	0.500	wt%	1	8/22/2019 2:18:46 PM
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Lab ID: 1908308-012

Client Sample ID: 04-11-203-10.5

Collection Date: 8/20/2019 12:10:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.227	D	mg/Kg-dry	10	8/22/2019 10:55:18 PM
cis-1,2-Dichloroethene	ND	0.182	D	mg/Kg-dry	10	8/22/2019 10:55:18 PM
Trichloroethene (TCE)	ND	0.182	D	mg/Kg-dry	10	8/22/2019 10:55:18 PM
Tetrachloroethene (PCE)	0.0889	0.227	DJ	mg/Kg-dry	10	8/22/2019 10:55:18 PM
Surr: Dibromofluoromethane	95.7	56.5 - 129	D	%Rec	10	8/22/2019 10:55:18 PM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	8/22/2019 10:55:18 PM
Surr: 1-Bromo-4-fluorobenzene	95.9	54.8 - 168	D	%Rec	10	8/22/2019 10:55:18 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	14.2	0.500	wt%	1	8/22/2019 2:18:46 PM
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Analytical Report

Work Order: 1908308

Date Reported: 8/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908308-013

Client Sample ID: B-966-08

Collection Date: 8/20/2019 10:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	8/22/2019 11:25:27 PM
cis-1,2-Dichloroethene	0.615	0.187	D	mg/Kg-dry	10	8/22/2019 11:25:27 PM
Trichloroethene (TCE)	0.0656	0.187	DJ	mg/Kg-dry	10	8/22/2019 11:25:27 PM
Tetrachloroethene (PCE)	1.15	0.234	D	mg/Kg-dry	10	8/22/2019 11:25:27 PM
Surr: Dibromofluoromethane	95.8	56.5 - 129	D	%Rec	10	8/22/2019 11:25:27 PM
Surr: Toluene-d8	98.7	64.5 - 151	D	%Rec	10	8/22/2019 11:25:27 PM
Surr: 1-Bromo-4-fluorobenzene	94.7	54.8 - 168	D	%Rec	10	8/22/2019 11:25:27 PM

Sample Moisture (Percent Moisture)

Batch ID: R53421

Analyst: SBM

Percent Moisture	11.0	0.500		wt%	1	8/22/2019 2:18:46 PM
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Lab ID: 1908308-014

Client Sample ID: TB-082219

Collection Date: 8/20/2019 12:15:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25594

Analyst: TN

Vinyl chloride	ND	0.0250		mg/Kg	1	8/22/2019 3:53:32 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/22/2019 3:53:32 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/22/2019 3:53:32 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/22/2019 3:53:32 PM
Surr: Dibromofluoromethane	94.3	56.5 - 129		%Rec	1	8/22/2019 3:53:32 PM
Surr: Toluene-d8	97.8	64.5 - 151		%Rec	1	8/22/2019 3:53:32 PM
Surr: 1-Bromo-4-fluorobenzene	93.7	54.8 - 168		%Rec	1	8/22/2019 3:53:32 PM

Work Order: 1908308
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-25594		SampType: LCS			Units: mg/Kg		Prep Date: 8/22/2019			RunNo: 53434		
Client ID: LCSS		Batch ID: 25594			Analysis Date: 8/22/2019			SeqNo: 1057365				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.772	0.0250	1.000	0	77.2	43.4	151				
cis-1,2-Dichloroethene	0.923	0.0200	1.000	0	92.3	71.3	135				
Trichloroethene (TCE)	0.920	0.0200	1.000	0	92.0	65.5	137				
Tetrachloroethene (PCE)	0.961	0.0250	1.000	0	96.1	52.7	150				
Surr: Dibromofluoromethane	1.24		1.250		99.5	56.5	129				
Surr: Toluene-d8	1.22		1.250		98.0	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.1	54.8	168				

Sample ID: MB-25594		SampType: MBLK			Units: mg/Kg		Prep Date: 8/22/2019			RunNo: 53434		
Client ID: MBLKS		Batch ID: 25594			Analysis Date: 8/22/2019					SeqNo: 1057366		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.20		1.250		95.8	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.3	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		95.7	54.8	168				

Sample ID: 1908308-002BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/22/2019		RunNo: 53434		
Client ID: 04-09-114-08		Batch ID: 25594			Analysis Date: 8/22/2019				SeqNo: 1057347		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.236						0	0	30	D
cis-1,2-Dichloroethene	0.537	0.188						0.5340	0.581	30	D
Trichloroethene (TCE)	ND	0.188						0	0	30	D
Tetrachloroethene (PCE)	0.560	0.236						0.5090	9.55	30	D
Surr: Dibromofluoromethane	11.2		11.78		95.2	56.5	129		0		D
Surr: Toluene-d8	11.5		11.78		98.0	64.5	151		0		D

Work Order: 1908308
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908308-002BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/22/2019		RunNo: 53434		
Client ID: 04-09-114-08		Batch ID: 25594			Analysis Date: 8/22/2019				SeqNo: 1057347		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	11.2		11.78		95.3	54.8	168		0		D
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Sample ID: 1908308-010BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 8/22/2019			RunNo: 53434		
Client ID: 04-11-202-10.5		Batch ID: 25594			Analysis Date: 8/22/2019			SeqNo: 1057356				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.240						0	0	30	D
cis-1,2-Dichloroethene	ND	0.192						0	0	30	D
Trichloroethene (TCE)	ND	0.192						0	0	30	D
Tetrachloroethene (PCE)	0.111	0.240						0.09602	14.5	30	DJ
Surr: Dibromofluoromethane	11.5		11.98		95.8	56.5	129		0		D
Surr: Toluene-d8	11.8		11.98		98.3	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.3		11.98		94.7	54.8	168		0		D

Sample ID: 1908308-013BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 8/22/2019			RunNo: 53434			
Client ID: B-966-08		Batch ID: 25594					Analysis Date: 8/22/2019			SeqNo: 1057360		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	6.63	0.234	9.366	0	70.8	43.6	150				D
cis-1,2-Dichloroethene	9.44	0.187	9.366	0.6153	94.2	58.6	136				D
Trichloroethene (TCE)	8.92	0.187	9.366	0.06559	94.5	61.6	147				D
Tetrachloroethene (PCE)	9.98	0.234	9.366	1.154	94.2	35.6	158				D
Surr: Dibromofluoromethane	11.7		11.71		100	56.5	129				D
Surr: Toluene-d8	11.6		11.71		98.8	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	11.3		11.71		96.8	54.8	168				D

Work Order: 1908308
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1908308-013BMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 8/22/2019			RunNo: 53434		
Client ID: B-966-08	Batch ID: 25594	Analysis Date: 8/23/2019							SeqNo: 1057361		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	6.77	0.234	9.366	0	72.3	43.6	150	6.628	2.18	30	D
cis-1,2-Dichloroethene	9.68	0.187	9.366	0.6153	96.7	58.6	136	9.438	2.50	30	D
Trichloroethene (TCE)	9.11	0.187	9.366	0.06559	96.6	61.6	147	8.916	2.18	30	D
Tetrachloroethene (PCE)	10.3	0.234	9.366	1.154	97.3	35.6	158	9.980	2.80	30	D
Surr: Dibromofluoromethane	11.9		11.71		102	56.5	129		0		D
Surr: Toluene-d8	11.6		11.71		99.1	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.3		11.71		96.1	54.8	168		0		D



Work Order: 1908308
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1908308-002ADUP	SampType: DUP	Units: wt%			Prep Date: 8/22/2019			RunNo: 53421			
Client ID: 04-09-114-08	Batch ID: R53421				Analysis Date: 8/22/2019			SeqNo: 1056964			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	10.5	0.500						10.37	1.07	20	

Sample ID: 1908308-013ADUP		SampType: DUP		Units: wt%		Prep Date: 8/22/2019			RunNo: 53421		
Client ID: B-966-08		Batch ID: R53421					Analysis Date: 8/22/2019			SeqNo: 1056977	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	10.6	0.500						11.00	4.08	20	

Client Name: **PES**
 Logged by: **Clare Griggs**

Work Order Number: **1908308**
 Date Received: **8/22/2019 1:06:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☒ No ☐ NA ☐
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Cooler	9.6
Sample	9.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8-22-19 Page: 1 of 2

Project Name: AMERICAN UNEN

Project No: 1413.02.05.402

Collected by: R. McLAUGHLIN/K. ZYGAS

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@FREMONTANAL.COM

Laboratory Project No (Internal): 1408308

Special Remarks:

SELECT LIST: PCB, TC, CIS-1,2 DCE, V.C
ASAP-TAT (FRI 10AM)

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL, INC

Address: 1215 4th Ave Ste 1350

City, State, zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/8TEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
104-11-114-10	8/22/19	1115	S	X													
204-09-114-18		1120															
304-11-113-10		1130															
404-09-113-08		1140															
504-11-115-10		1148															
604-09-115-08		1145															
704-13-201-12		1150															
804-13-201-11		1158															
904-13-202-12		1200															
1004-11-202-10.5		1203	X	X													

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time

Received

Date/Time

Standard

3 Day

2 Day

Next Day

Relinquished

Date/Time

Received

Date/Time

Same Day

X

X

(specify)



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8-22-19 Page: 2 of 2

Project Name: AMERICAN LINEN

Project No: SEE

Collected by: PG

Location: PG

Report To (PM): 1

PM Email:

Laboratory Project No (Internal):

Special Remarks:

SELECT LIST: PCE, TCE, CIS-1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

ASAP TAT (FRI 10AM)

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL

Address:

City, State, zip: SEE Pg 1

Telephone:

Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GYBTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DOX)	SVOs (EPA 8270 - SIM)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
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1 04-13-203-11.5 8/22/19 1205 S X

2 04-17-203-10.5 1210 S

3 B-966-08 1200 S

4 TB-082219 X 1215 -

5

6

7

8

9

10

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time 8/22/19 1306 x Received Date/Time 8/22/19 1306 x

Relinquished Date/Time 8/22/19 1306 x Received Date/Time 8/22/19 1306 x

www.fremontanalytical.com



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8-22-19 Page: 1 of 2

Project Name: AMERICAN LUMEN

Project No: 1413.02.05.402

Collected by: R. McLAUGHLIN/K. ZYGAS

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@FREMONT.COM

Laboratory Project No (Internal): 1406308

Special Remarks: SELECT LIST: PCB, TCE, CIS-1,2 DCE, VC

ASAP TAT (FRI 10AM)

edit per KS 8/23/19 mm

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL, INC
Address: 1215 4th Ave Ste 13SD
City, State, Zip: SEATTLE WA 98161
Telephone: 206 529 3980
Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
104-11-114-10	8/22/19	1115	S	X													
204-09-114-1808		1120															
304-11-113-10		1130															
404-09-113-08		1140															
504-11-115-10		1148															
604-09-115-08		1145															
704-13-201-12		1150															
804-13-201-11		1158															
904-13-202-12		1200															
1004-11-202-10.5		1203	X	X													

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TML Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time 8-22-19 1306
Relinquished Date/Time 8-22-19 1306
Received Date/Time 8-22-19 1306
Same Day (specify) _____

Turn-around Time:

☐ Standard
☐ 3 Day
☐ 2 Day
☒ Next Day



Fremont

ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 8-22-19 Page: 2 of 2

Project Name: AMERICAN UNEN

Client: RES ENVIRONMENTAL

Project No:

Address:

Collected by:

City, State, Zip:

Location:

Telephone:

Report To (PM):

Fax:

PM Email:

Laboratory Project No (Internal):

Special Remarks:

SELECT UST: PCE, TCE, CIS-12, VC

ASAP TAT (Fri 10AM)

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCS (EPA 8260 / 6241)	GX/BTX	BTX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	ED8 (801.1)	Comments
-------------	-------------	-------------	-----------------------	------------------------	--------	-----	------------------------------	-----------------------------------	--------------------------------------	------------------------	-----------------------	-----------------------	-----------------------------	---------------------------	----------------	-------------	----------

1	04-13-203-11.5	8/22/19	1205	S	X													
2	04-14-203-10.5		1210	S														
3	B-966-08		1200	S														
4	TB-082219	X	1215	-	X													STANDARD TAT

5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
<i>[Signature]</i>	8/22/19 1306	<i>[Signature]</i>	8/22/19 1306
Relinquished	Date/Time	Received	Date/Time
X		X	

www.fremontanalytical.com



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1908365

August 28, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 13 sample(s) on 8/27/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:

Dan Balbiani
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1908365

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908365-001	04-09-204-8.5	08/27/2019 10:35 AM	08/27/2019 12:54 PM
1908365-002	04-09-202-09	08/27/2019 10:43 AM	08/27/2019 12:54 PM
1908365-003	04-09-203-8.5	08/27/2019 10:51 AM	08/27/2019 12:54 PM
1908365-004	04-09-201-09	08/27/2019 10:54 AM	08/27/2019 12:54 PM
1908365-005	04-09-201-08	08/27/2019 10:57 AM	08/27/2019 12:54 PM
1908365-006	04-09-202-08	08/27/2019 11:00 AM	08/27/2019 12:54 PM
1908365-007	TB-082719	08/27/2019 10:00 AM	08/27/2019 12:54 PM
1908365-008	03-09-142-08	08/27/2019 11:50 AM	08/27/2019 12:54 PM
1908365-009	03-07-142-06	08/27/2019 11:55 AM	08/27/2019 12:54 PM
1908365-010	03-09-143-08	08/27/2019 12:00 PM	08/27/2019 12:54 PM
1908365-011	03-07-143-06	08/27/2019 12:05 PM	08/27/2019 12:54 PM
1908365-012	03-09-146-08	08/27/2019 12:10 PM	08/27/2019 12:54 PM
1908365-013	03-07-146-06	08/27/2019 12:15 PM	08/27/2019 12:54 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Work Order: 1908365

Date Reported: 8/28/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908365-001

Client Sample ID: 04-09-204-8.5

Collection Date: 8/27/2019 10:35:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25628

Analyst: KT

Vinyl chloride	ND	0.192	D	mg/Kg-dry	10	8/27/2019 10:17:49 PM
cis-1,2-Dichloroethene	0.0854	0.154	DJ	mg/Kg-dry	10	8/27/2019 10:17:49 PM
Trichloroethene (TCE)	ND	0.154	D	mg/Kg-dry	10	8/27/2019 10:17:49 PM
Tetrachloroethene (PCE)	0.930	0.192	D	mg/Kg-dry	10	8/27/2019 10:17:49 PM
Surr: Dibromofluoromethane	96.1	56.5 - 129	D	%Rec	10	8/27/2019 10:17:49 PM
Surr: Toluene-d8	97.4	64.5 - 151	D	%Rec	10	8/27/2019 10:17:49 PM
Surr: 1-Bromo-4-fluorobenzene	94.3	54.8 - 168	D	%Rec	10	8/27/2019 10:17:49 PM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	15.0	0.500	wt%	1	8/27/2019 1:57:55 PM
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Lab ID: 1908365-002

Client Sample ID: 04-09-202-09

Collection Date: 8/27/2019 10:43:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25628

Analyst: KT

Vinyl chloride	ND	0.254	D	mg/Kg-dry	10	8/27/2019 10:47:58 PM
cis-1,2-Dichloroethene	0.102	0.204	DJ	mg/Kg-dry	10	8/27/2019 10:47:58 PM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	8/27/2019 10:47:58 PM
Tetrachloroethene (PCE)	1.05	0.254	D	mg/Kg-dry	10	8/27/2019 10:47:58 PM
Surr: Dibromofluoromethane	95.9	56.5 - 129	D	%Rec	10	8/27/2019 10:47:58 PM
Surr: Toluene-d8	98.7	64.5 - 151	D	%Rec	10	8/27/2019 10:47:58 PM
Surr: 1-Bromo-4-fluorobenzene	93.2	54.8 - 168	D	%Rec	10	8/27/2019 10:47:58 PM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	15.6	0.500	wt%	1	8/27/2019 1:57:55 PM
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Analytical Report

Work Order: 1908365

Date Reported: 8/28/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908365-003

Client Sample ID: 04-09-203-8.5

Collection Date: 8/27/2019 10:51:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25628

Analyst: KT

Vinyl chloride	ND	0.402	D	mg/Kg-dry	10	8/27/2019 11:18:09 PM
cis-1,2-Dichloroethene	ND	0.322	D	mg/Kg-dry	10	8/27/2019 11:18:09 PM
Trichloroethene (TCE)	ND	0.322	D	mg/Kg-dry	10	8/27/2019 11:18:09 PM
Tetrachloroethene (PCE)	1.48	0.402	D	mg/Kg-dry	10	8/27/2019 11:18:09 PM
Surr: Dibromofluoromethane	95.9	56.5 - 129	D	%Rec	10	8/27/2019 11:18:09 PM
Surr: Toluene-d8	98.8	64.5 - 151	D	%Rec	10	8/27/2019 11:18:09 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	54.8 - 168	D	%Rec	10	8/27/2019 11:18:09 PM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	14.4	0.500	wt%	1	8/27/2019 1:57:55 PM
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Lab ID: 1908365-004

Client Sample ID: 04-09-201-09

Collection Date: 8/27/2019 10:54:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25628

Analyst: KT

Vinyl chloride	ND	0.237	D	mg/Kg-dry	10	8/27/2019 11:48:19 PM
cis-1,2-Dichloroethene	ND	0.190	D	mg/Kg-dry	10	8/27/2019 11:48:19 PM
Trichloroethene (TCE)	ND	0.190	D	mg/Kg-dry	10	8/27/2019 11:48:19 PM
Tetrachloroethene (PCE)	1.28	0.237	D	mg/Kg-dry	10	8/27/2019 11:48:19 PM
Surr: Dibromofluoromethane	96.4	56.5 - 129	D	%Rec	10	8/27/2019 11:48:19 PM
Surr: Toluene-d8	98.0	64.5 - 151	D	%Rec	10	8/27/2019 11:48:19 PM
Surr: 1-Bromo-4-fluorobenzene	93.1	54.8 - 168	D	%Rec	10	8/27/2019 11:48:19 PM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	16.4	0.500	wt%	1	8/27/2019 1:57:55 PM
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Analytical Report

Work Order: 1908365

Date Reported: 8/28/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908365-005

Client Sample ID: 04-09-201-08

Collection Date: 8/27/2019 10:57:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25636

Analyst: KT

Vinyl chloride	ND	0.201	D	mg/Kg-dry	10	8/28/2019 12:18:28 AM
cis-1,2-Dichloroethene	0.156	0.161	DJ	mg/Kg-dry	10	8/28/2019 12:18:28 AM
Trichloroethene (TCE)	ND	0.161	D	mg/Kg-dry	10	8/28/2019 12:18:28 AM
Tetrachloroethene (PCE)	1.79	0.201	D	mg/Kg-dry	10	8/28/2019 12:18:28 AM
Surr: Dibromofluoromethane	96.3	56.5 - 129	D	%Rec	10	8/28/2019 12:18:28 AM
Surr: Toluene-d8	98.6	64.5 - 151	D	%Rec	10	8/28/2019 12:18:28 AM
Surr: 1-Bromo-4-fluorobenzene	93.8	54.8 - 168	D	%Rec	10	8/28/2019 12:18:28 AM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	15.6	0.500		wt%	1	8/27/2019 1:57:55 PM
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Lab ID: 1908365-006

Client Sample ID: 04-09-202-08

Collection Date: 8/27/2019 11:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25636

Analyst: KT

Vinyl chloride	ND	0.245	D	mg/Kg-dry	10	8/28/2019 12:48:37 AM
cis-1,2-Dichloroethene	0.153	0.196	DJ	mg/Kg-dry	10	8/28/2019 12:48:37 AM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	8/28/2019 12:48:37 AM
Tetrachloroethene (PCE)	1.76	0.245	D	mg/Kg-dry	10	8/28/2019 12:48:37 AM
Surr: Dibromofluoromethane	95.8	56.5 - 129	D	%Rec	10	8/28/2019 12:48:37 AM
Surr: Toluene-d8	97.5	64.5 - 151	D	%Rec	10	8/28/2019 12:48:37 AM
Surr: 1-Bromo-4-fluorobenzene	93.1	54.8 - 168	D	%Rec	10	8/28/2019 12:48:37 AM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	14.8	0.500		wt%	1	8/27/2019 1:57:55 PM
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Analytical Report

Work Order: 1908365

Date Reported: 8/28/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908365-007

Client Sample ID: TB-082719

Collection Date: 8/27/2019 10:00:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25636		Analyst: KT
Vinyl chloride	ND	0.0250		mg/Kg	1	8/28/2019 2:48:02 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/28/2019 2:48:02 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/28/2019 2:48:02 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/28/2019 2:48:02 AM
Surr: Dibromofluoromethane	95.9	56.5 - 129		%Rec	1	8/28/2019 2:48:02 AM
Surr: Toluene-d8	98.1	64.5 - 151		%Rec	1	8/28/2019 2:48:02 AM
Surr: 1-Bromo-4-fluorobenzene	93.0	54.8 - 168		%Rec	1	8/28/2019 2:48:02 AM

Lab ID: 1908365-008

Client Sample ID: 03-09-142-08

Collection Date: 8/27/2019 11:50:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25636		Analyst: KT
Vinyl chloride	ND	0.235	D	mg/Kg-dry	10	8/28/2019 3:18:10 AM
cis-1,2-Dichloroethene	ND	0.188	D	mg/Kg-dry	10	8/28/2019 3:18:10 AM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	8/28/2019 3:18:10 AM
Tetrachloroethene (PCE)	ND	0.235	D	mg/Kg-dry	10	8/28/2019 3:18:10 AM
Surr: Dibromofluoromethane	96.1	56.5 - 129	D	%Rec	10	8/28/2019 3:18:10 AM
Surr: Toluene-d8	98.0	64.5 - 151	D	%Rec	10	8/28/2019 3:18:10 AM
Surr: 1-Bromo-4-fluorobenzene	92.5	54.8 - 168	D	%Rec	10	8/28/2019 3:18:10 AM

Sample Moisture (Percent Moisture)

Batch ID: R53517 Analyst: SBM

Percent Moisture	10.1	0.500	wt%	1	8/27/2019 1:57:55 PM
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Analytical Report

Work Order: 1908365

Date Reported: 8/28/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908365-009

Client Sample ID: 03-07-142-06

Collection Date: 8/27/2019 11:55:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25636

Analyst: KT

Vinyl chloride	ND	0.227	D	mg/Kg-dry	10	8/28/2019 3:48:23 AM
cis-1,2-Dichloroethene	ND	0.182	D	mg/Kg-dry	10	8/28/2019 3:48:23 AM
Trichloroethene (TCE)	ND	0.182	D	mg/Kg-dry	10	8/28/2019 3:48:23 AM
Tetrachloroethene (PCE)	0.147	0.227	DJ	mg/Kg-dry	10	8/28/2019 3:48:23 AM
Surr: Dibromofluoromethane	95.9	56.5 - 129	D	%Rec	10	8/28/2019 3:48:23 AM
Surr: Toluene-d8	98.8	64.5 - 151	D	%Rec	10	8/28/2019 3:48:23 AM
Surr: 1-Bromo-4-fluorobenzene	93.7	54.8 - 168	D	%Rec	10	8/28/2019 3:48:23 AM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	6.14	0.500		wt%	1	8/27/2019 1:57:55 PM
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Lab ID: 1908365-010

Client Sample ID: 03-09-143-08

Collection Date: 8/27/2019 12:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25636

Analyst: KT

Vinyl chloride	ND	0.254	D	mg/Kg-dry	10	8/28/2019 4:18:34 AM
cis-1,2-Dichloroethene	ND	0.203	D	mg/Kg-dry	10	8/28/2019 4:18:34 AM
Trichloroethene (TCE)	ND	0.203	D	mg/Kg-dry	10	8/28/2019 4:18:34 AM
Tetrachloroethene (PCE)	ND	0.254	D	mg/Kg-dry	10	8/28/2019 4:18:34 AM
Surr: Dibromofluoromethane	95.8	56.5 - 129	D	%Rec	10	8/28/2019 4:18:34 AM
Surr: Toluene-d8	99.0	64.5 - 151	D	%Rec	10	8/28/2019 4:18:34 AM
Surr: 1-Bromo-4-fluorobenzene	93.7	54.8 - 168	D	%Rec	10	8/28/2019 4:18:34 AM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	14.1	0.500		wt%	1	8/27/2019 1:57:55 PM
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Analytical Report

Work Order: 1908365

Date Reported: 8/28/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908365-011

Client Sample ID: 03-07-143-06

Collection Date: 8/27/2019 12:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25636		Analyst: KT
Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	8/28/2019 4:48:44 AM
cis-1,2-Dichloroethene	ND	0.188	D	mg/Kg-dry	10	8/28/2019 4:48:44 AM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	8/28/2019 4:48:44 AM
Tetrachloroethene (PCE)	ND	0.234	D	mg/Kg-dry	10	8/28/2019 4:48:44 AM
Surr: Dibromofluoromethane	94.9	56.5 - 129	D	%Rec	10	8/28/2019 4:48:44 AM
Surr: Toluene-d8	98.7	64.5 - 151	D	%Rec	10	8/28/2019 4:48:44 AM
Surr: 1-Bromo-4-fluorobenzene	91.4	54.8 - 168	D	%Rec	10	8/28/2019 4:48:44 AM

Sample Moisture (Percent Moisture)

Batch ID: R53517 Analyst: SBM

Percent Moisture	7.18	0.500	wt%	1	8/27/2019 1:57:55 PM
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Lab ID: 1908365-012

Client Sample ID: 03-09-146-08

Collection Date: 8/27/2019 12:10:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25636		Analyst: KT
Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	8/28/2019 5:18:55 AM
cis-1,2-Dichloroethene	ND	0.186	D	mg/Kg-dry	10	8/28/2019 5:18:55 AM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	8/28/2019 5:18:55 AM
Tetrachloroethene (PCE)	ND	0.233	D	mg/Kg-dry	10	8/28/2019 5:18:55 AM
Surr: Dibromofluoromethane	94.6	56.5 - 129	D	%Rec	10	8/28/2019 5:18:55 AM
Surr: Toluene-d8	97.8	64.5 - 151	D	%Rec	10	8/28/2019 5:18:55 AM
Surr: 1-Bromo-4-fluorobenzene	92.4	54.8 - 168	D	%Rec	10	8/28/2019 5:18:55 AM

Sample Moisture (Percent Moisture)

Batch ID: R53517 Analyst: SBM

Percent Moisture	6.96	0.500	wt%	1	8/27/2019 1:57:55 PM
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Analytical Report

Work Order: 1908365

Date Reported: 8/28/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1908365-013

Collection Date: 8/27/2019 12:15:00 PM

Client Sample ID: 03-07-146-06

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25636

Analyst: KT

Vinyl chloride	ND	0.272	D	mg/Kg-dry	10	8/28/2019 5:49:06 AM
cis-1,2-Dichloroethene	ND	0.218	D	mg/Kg-dry	10	8/28/2019 5:49:06 AM
Trichloroethene (TCE)	ND	0.218	D	mg/Kg-dry	10	8/28/2019 5:49:06 AM
Tetrachloroethene (PCE)	1.18	0.272	D	mg/Kg-dry	10	8/28/2019 5:49:06 AM
Surr: Dibromofluoromethane	94.8	56.5 - 129	D	%Rec	10	8/28/2019 5:49:06 AM
Surr: Toluene-d8	99.0	64.5 - 151	D	%Rec	10	8/28/2019 5:49:06 AM
Surr: 1-Bromo-4-fluorobenzene	92.8	54.8 - 168	D	%Rec	10	8/28/2019 5:49:06 AM

Sample Moisture (Percent Moisture)

Batch ID: R53517

Analyst: SBM

Percent Moisture	6.88	0.500		wt%	1	8/27/2019 1:57:55 PM
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Work Order: 1908365
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	LCS-25628	SampType:	LCS	Units:	mg/Kg	Prep Date:	8/26/2019	RunNo:	53513		
Client ID:	LCSS	Batch ID:	25628			Analysis Date:	8/27/2019	SeqNo:	1059004		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.876	0.0250	1.000	0	87.6	43.4	151				
cis-1,2-Dichloroethene	0.957	0.0200	1.000	0	95.7	71.3	135				
Trichloroethene (TCE)	0.990	0.0200	1.000	0	99.0	65.5	137				
Tetrachloroethene (PCE)	1.02	0.0250	1.000	0	102	52.7	150				
Surr: Dibromofluoromethane	1.24		1.250		99.6	56.5	129				
Surr: Toluene-d8	1.25		1.250		99.9	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		95.1	54.8	168				

Sample ID	LCSD-25628	SampType:	LCSD	Units:	mg/Kg	Prep Date:	8/26/2019	RunNo:	53513		
Client ID:	LCSS02	Batch ID:	25628			Analysis Date:	8/27/2019	SeqNo:	1059005		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.885	0.0250	1.000	0	88.5	43.4	151	0.8765	0.917	20	
cis-1,2-Dichloroethene	0.976	0.0200	1.000	0	97.6	71.6	123	0.9573	1.92	20	
Trichloroethene (TCE)	0.988	0.0200	1.000	0	98.8	65.5	137	0.9896	0.134	20	
Tetrachloroethene (PCE)	1.02	0.0250	1.000	0	102	52.7	150	1.019	0.174	20	
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129		0		
Surr: Toluene-d8	1.25		1.250		99.9	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.18		1.250		94.2	54.8	168		0		

Sample ID	MB-25628	SampType:	MBLK		Units:	mg/Kg		Prep Date:	8/26/2019		RunNo:	53513	
Client ID:	MBLKS	Batch ID:	25628					Analysis Date:	8/27/2019		SeqNo:	1059006	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Vinyl chloride		ND	0.0250										
cis-1,2-Dichloroethene		ND	0.0200										
Trichloroethene (TCE)		ND	0.0200										
Tetrachloroethene (PCE)		ND	0.0250										
Surr: Dibromofluoromethane		1.19		1.250		95.4	56.5	129					
Surr: Toluene-d8		1.24		1.250		99.0	64.5	151					

Work Order: 1908365
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	MB-25628	SampType: MBLK		Units: mg/Kg		Prep Date: 8/26/2019		RunNo: 53513			
Client ID:	MBLKS	Batch ID: 25628				Analysis Date: 8/27/2019		SeqNo: 1059006			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	1.16		1.250		92.6	54.8	168				
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Sample ID	LCS-25636	SampType: LCS			Units: mg/Kg		Prep Date: 8/27/2019			RunNo: 53524		
Client ID:	LCSS	Batch ID: 25636			Analysis Date: 8/27/2019			SeqNo: 1059339				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.913	0.0250	1.000	0	91.3	43.4	151				
cis-1,2-Dichloroethene	0.936	0.0200	1.000	0	93.6	71.3	135				
Trichloroethene (TCE)	0.969	0.0200	1.000	0	96.9	65.5	137				
Tetrachloroethene (PCE)	0.994	0.0250	1.000	0	99.4	52.7	150				
Surr: Dibromofluoromethane	1.21		1.250		97.0	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.6	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		95.8	54.8	168				

Sample ID	LCSD-25636	SampType: LCSD			Units: mg/Kg		Prep Date: 8/27/2019			RunNo: 53524		
Client ID:	LCSS02	Batch ID: 25636			Analysis Date: 8/27/2019			SeqNo: 1059340				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.852	0.0250	1.000	0	85.2	43.4	151	0.9132	6.97	20	
cis-1,2-Dichloroethene	0.896	0.0200	1.000	0	89.6	71.6	123	0.9362	4.43	20	
Trichloroethene (TCE)	0.918	0.0200	1.000	0	91.8	65.5	137	0.9688	5.35	20	
Tetrachloroethene (PCE)	0.930	0.0250	1.000	0	93.0	52.7	150	0.9939	6.60	20	
Surr: Dibromofluoromethane	1.21		1.250		96.5	56.5	129		0		
Surr: Toluene-d8	1.22		1.250		97.4	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		95.2	54.8	168		0		



Date: 8/28/2019

Work Order: 1908365
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT**Volatile Organic Compounds by EPA Method 8260D**

Sample ID	MB-25636	SampType:	MBLK			Units:	mg/Kg			Prep Date:	8/27/2019		RunNo:	53524	
Client ID:	MBLKS	Batch ID:	25636						Analysis Date:	8/27/2019			SeqNo:	1059341	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual		

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.19		1.250		95.2	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.9	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		95.2	54.8	168				

Sample ID	1908350-027BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	8/26/2019	RunNo:	53513		
Client ID:	BATCH	Batch ID:	25628			Analysis Date:	8/27/2019	SeqNo:	1059314		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.279						0	0	30	D
cis-1,2-Dichloroethene	ND	0.223						0	0	30	D
Trichloroethene (TCE)	ND	0.223						0	0	30	D
Tetrachloroethene (PCE)	ND	0.279						0	0	30	D
Surr: Dibromofluoromethane	13.3		13.97		95.2	56.5	129		0		D
Surr: Toluene-d8	13.5		13.97		97.0	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.2		13.97		94.8	54.8	168		0		D

Sample ID	1908350-029BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	8/26/2019	RunNo:	53513		
Client ID:	BATCH	Batch ID:	25628			Analysis Date:	8/27/2019	SeqNo:	1059317		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.302						0	0	30	D
cis-1,2-Dichloroethene	ND	0.241						0	0	30	D
Trichloroethene (TCE)	ND	0.241						0	0	30	D
Tetrachloroethene (PCE)	ND	0.302						0	0	30	D
Surr: Dibromofluoromethane	14.2		15.09		93.8	56.5	129		0		D
Surr: Toluene-d8	14.6		15.09		96.9	64.5	151		0		D

Work Order: 1908365
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID	1908350-029BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	8/26/2019	RunNo:	53513		
Client ID:	BATCH	Batch ID:	25628			Analysis Date:	8/27/2019	SeqNo:	1059317		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	14.1		15.09		93.7	54.8	168		0		D

Sample ID	1908365-006BDUP	SampType:	DUP	Units:		mg/Kg-dry		Prep Date:	8/27/2019		RunNo:	53524
Client ID:	04-09-202-08	Batch ID:	25636					Analysis Date:	8/28/2019		SeqNo:	1059328
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Vinyl chloride	ND	0.245						0	0	30	D	
cis-1,2-Dichloroethene	0.180	0.196						0.1530	16.2	30	DJ	
Trichloroethene (TCE)	ND	0.196						0	0	30	D	
Tetrachloroethene (PCE)	1.97	0.245						1.763	11.3	30	D	
Surr: Dibromofluoromethane	11.7		12.26		95.5	56.5	129		0		D	
Surr: Toluene-d8	12.0		12.26		98.2	64.5	151		0		D	
Surr: 1-Bromo-4-fluorobenzene	11.3		12.26		92.1	54.8	168		0		D	



Work Order: 1908365
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID	1908365-004ADUP	SampType:	DUP	Units:	wt%	Prep Date:	8/27/2019	RunNo:	53517		
Client ID:	04-09-201-09	Batch ID:	R53517			Analysis Date:	8/27/2019	SeqNo:	1059142		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	14.9	0.500						16.37	9.41	20	

Sample ID	1908365-011ADUP	SampType:	DUP	Units:	wt%	Prep Date:	8/27/2019	RunNo:	53517		
Client ID:	03-07-143-06	Batch ID:	R53517			Analysis Date:	8/27/2019	SeqNo:	1059149		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	7.19	0.500						7.183	0.168	20	

Client Name: **PES**
 Logged by: **Carissa True**

Work Order Number: **1908365**
 Date Received: **8/27/2019 12:54:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
 6. Was an attempt made to cool the samples? Yes ☐ No ☒ NA ☐

Samples received straight from field

7. Were all items received at a temperature of >0°C to 10.0°C * Yes ☐ No ☐ NA ☒
 8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler 1	26.1
Sample 1	25.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Chain of Custody Record & Laboratory Services Agreement

Client: PES Environmental

Address: 1215 4th Ave #1350

City, State, Zip: Seattle, WA 98161

Telephone: (206) 529-3980

Fax: (206) 529-3985

Date: 8/27/19 Page: 1 of 2

Project Name: American Linen

Project No: 1413.001.05.402

Collected by: KSZ/HRC

Location: Seattle, WA

Report To (PM): Brian O'Neal

PM Email: BO'NEAL@PESENV.COM

Laboratory Project No (Internal): 1908365

Special Remarks: SELECT LIST: PCB, TCE, cis-oCE, VC

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)	Comments
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1	04-09-204-8.5	8/27/19	1035	S	X													
2	04-09-202-09		1043		X													
3	04-09-203-8.5		1051		X													
4	04-09-201-09		1054		X													
5	04-09-201-08		1057		X													
6	04-09-202-08		1100		X													
7	TB-082719		1000	-	X													
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

**Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: *Blank* Date/Time: 8/27/19 1254 Received: *[Signature]* Date/Time: 8/27/19 1254

Relinquished: *X* Date/Time: Received: *X* Date/Time:

Turn-around Time: ☐ Standard ☐ 3 Day ☐ 2 Day ☐ Next Day ☐ Same Day *ASAP* (specify)



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1909011

September 04, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 8 sample(s) on 9/3/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260D

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:

Dan Balbiani
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1909011

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1909011-001	B-969-05.5	09/03/2019 1:00 PM	09/03/2019 4:57 PM
1909011-002	TB-090319	09/03/2019 1:05 PM	09/03/2019 4:57 PM
1909011-003	04-07-204-06	09/03/2019 1:40 PM	09/03/2019 4:57 PM
1909011-004	04-09-201-07.5	09/03/2019 1:50 PM	09/03/2019 4:57 PM
1909011-005	04-07-201-06	09/03/2019 1:55 PM	09/03/2019 4:57 PM
1909011-006	04-07-203-06	09/03/2019 2:00 PM	09/03/2019 4:57 PM
1909011-007	04-07-202-05.5	09/03/2019 2:05 PM	09/03/2019 4:57 PM
1909011-008	04-07-202-06.5	09/03/2019 2:10 PM	09/03/2019 4:57 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1909011

Date Reported: 9/4/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1909011-001

Client Sample ID: B-969-05.5

Collection Date: 9/3/2019 1:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25695

Analyst: KT

Vinyl chloride	ND	0.235	D	mg/Kg-dry	10	9/3/2019 10:29:01 PM
cis-1,2-Dichloroethene	ND	0.188	D	mg/Kg-dry	10	9/3/2019 10:29:01 PM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	9/3/2019 10:29:01 PM
Tetrachloroethene (PCE)	0.347	0.235	D	mg/Kg-dry	10	9/3/2019 10:29:01 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	9/3/2019 10:29:01 PM
Surr: Toluene-d8	96.4	64.5 - 151	D	%Rec	10	9/3/2019 10:29:01 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168	D	%Rec	10	9/3/2019 10:29:01 PM

Sample Moisture (Percent Moisture)

Batch ID: R53626

Analyst: SBM

Percent Moisture	16.4	0.500	wt%	1	9/3/2019 5:22:57 PM
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Lab ID: 1909011-002

Client Sample ID: TB-090319

Collection Date: 9/3/2019 1:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25695

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	9/3/2019 9:58:44 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	9/3/2019 9:58:44 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	9/3/2019 9:58:44 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	9/3/2019 9:58:44 PM
Surr: Dibromofluoromethane	103	56.5 - 129		%Rec	1	9/3/2019 9:58:44 PM
Surr: Toluene-d8	101	64.5 - 151		%Rec	1	9/3/2019 9:58:44 PM
Surr: 1-Bromo-4-fluorobenzene	95.5	54.8 - 168		%Rec	1	9/3/2019 9:58:44 PM



Analytical Report

Work Order: 1909011

Date Reported: 9/4/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1909011-003

Client Sample ID: 04-07-204-06

Collection Date: 9/3/2019 1:40:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25695

Analyst: KT

Vinyl chloride	ND	0.215	D	mg/Kg-dry	10	9/3/2019 10:59:17 PM
cis-1,2-Dichloroethene	ND	0.172	D	mg/Kg-dry	10	9/3/2019 10:59:17 PM
Trichloroethene (TCE)	0.141	0.172	DJ	mg/Kg-dry	10	9/3/2019 10:59:17 PM
Tetrachloroethene (PCE)	2.28	0.215	D	mg/Kg-dry	10	9/3/2019 10:59:17 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	9/3/2019 10:59:17 PM
Surr: Toluene-d8	99.7	64.5 - 151	D	%Rec	10	9/3/2019 10:59:17 PM
Surr: 1-Bromo-4-fluorobenzene	95.2	54.8 - 168	D	%Rec	10	9/3/2019 10:59:17 PM

Sample Moisture (Percent Moisture)

Batch ID: R53626

Analyst: SBM

Percent Moisture	17.6	0.500	wt%	1	9/3/2019 5:22:57 PM
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Lab ID: 1909011-004

Client Sample ID: 04-09-201-07.5

Collection Date: 9/3/2019 1:50:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25695

Analyst: KT

Vinyl chloride	ND	0.184	D	mg/Kg-dry	10	9/3/2019 11:29:29 PM
cis-1,2-Dichloroethene	ND	0.148	D	mg/Kg-dry	10	9/3/2019 11:29:29 PM
Trichloroethene (TCE)	ND	0.148	D	mg/Kg-dry	10	9/3/2019 11:29:29 PM
Tetrachloroethene (PCE)	0.597	0.184	D	mg/Kg-dry	10	9/3/2019 11:29:29 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	9/3/2019 11:29:29 PM
Surr: Toluene-d8	99.5	64.5 - 151	D	%Rec	10	9/3/2019 11:29:29 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	54.8 - 168	D	%Rec	10	9/3/2019 11:29:29 PM

Sample Moisture (Percent Moisture)

Batch ID: R53626

Analyst: SBM

Percent Moisture	18.1	0.500	wt%	1	9/3/2019 5:22:57 PM
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Analytical Report

Work Order: 1909011

Date Reported: 9/4/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1909011-005

Client Sample ID: 04-07-201-06

Collection Date: 9/3/2019 1:55:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25695

Analyst: KT

Vinyl chloride	ND	0.246	D	mg/Kg-dry	10	9/3/2019 11:59:41 PM
cis-1,2-Dichloroethene	ND	0.197	D	mg/Kg-dry	10	9/3/2019 11:59:41 PM
Trichloroethene (TCE)	ND	0.197	D	mg/Kg-dry	10	9/3/2019 11:59:41 PM
Tetrachloroethene (PCE)	0.465	0.246	D	mg/Kg-dry	10	9/3/2019 11:59:41 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	9/3/2019 11:59:41 PM
Surr: Toluene-d8	99.9	64.5 - 151	D	%Rec	10	9/3/2019 11:59:41 PM
Surr: 1-Bromo-4-fluorobenzene	94.4	54.8 - 168	D	%Rec	10	9/3/2019 11:59:41 PM

Sample Moisture (Percent Moisture)

Batch ID: R53626

Analyst: SBM

Percent Moisture	18.2	0.500	wt%	1	9/3/2019 5:22:57 PM
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Lab ID: 1909011-006

Client Sample ID: 04-07-203-06

Collection Date: 9/3/2019 2:00:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260D

Batch ID: 25695

Analyst: KT

Vinyl chloride	ND	0.256	D	mg/Kg-dry	10	9/4/2019 12:29:49 AM
cis-1,2-Dichloroethene	ND	0.205	D	mg/Kg-dry	10	9/4/2019 12:29:49 AM
Trichloroethene (TCE)	ND	0.205	D	mg/Kg-dry	10	9/4/2019 12:29:49 AM
Tetrachloroethene (PCE)	0.511	0.256	D	mg/Kg-dry	10	9/4/2019 12:29:49 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	9/4/2019 12:29:49 AM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	9/4/2019 12:29:49 AM
Surr: 1-Bromo-4-fluorobenzene	93.3	54.8 - 168	D	%Rec	10	9/4/2019 12:29:49 AM

Sample Moisture (Percent Moisture)

Batch ID: R53626

Analyst: SBM

Percent Moisture	20.2	0.500	wt%	1	9/3/2019 5:22:57 PM
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Analytical Report

Work Order: 1909011

Date Reported: 9/4/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1909011-007

Client Sample ID: 04-07-202-05.5

Collection Date: 9/3/2019 2:05:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25695		Analyst: KT
Vinyl chloride	ND	0.277	D	mg/Kg-dry	10	9/4/2019 12:59:54 AM
cis-1,2-Dichloroethene	ND	0.222	D	mg/Kg-dry	10	9/4/2019 12:59:54 AM
Trichloroethene (TCE)	ND	0.222	D	mg/Kg-dry	10	9/4/2019 12:59:54 AM
Tetrachloroethene (PCE)	0.482	0.277	D	mg/Kg-dry	10	9/4/2019 12:59:54 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	9/4/2019 12:59:54 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	9/4/2019 12:59:54 AM
Surr: 1-Bromo-4-fluorobenzene	94.9	54.8 - 168	D	%Rec	10	9/4/2019 12:59:54 AM

Sample Moisture (Percent Moisture)

Batch ID: R53626 Analyst: SBM

Percent Moisture	19.0	0.500	wt%	1	9/3/2019 5:22:57 PM
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Lab ID: 1909011-008

Client Sample ID: 04-07-202-06.5

Collection Date: 9/3/2019 2:10:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<u>Volatile Organic Compounds by EPA Method 8260D</u>				Batch ID: 25695		Analyst: KT
Vinyl chloride	ND	0.203	D	mg/Kg-dry	10	9/4/2019 2:00:07 AM
cis-1,2-Dichloroethene	ND	0.162	D	mg/Kg-dry	10	9/4/2019 2:00:07 AM
Trichloroethene (TCE)	ND	0.162	D	mg/Kg-dry	10	9/4/2019 2:00:07 AM
Tetrachloroethene (PCE)	0.413	0.203	D	mg/Kg-dry	10	9/4/2019 2:00:07 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	9/4/2019 2:00:07 AM
Surr: Toluene-d8	99.9	64.5 - 151	D	%Rec	10	9/4/2019 2:00:07 AM
Surr: 1-Bromo-4-fluorobenzene	94.5	54.8 - 168	D	%Rec	10	9/4/2019 2:00:07 AM

Sample Moisture (Percent Moisture)

Batch ID: R53626 Analyst: SBM

Percent Moisture	14.7	0.500	wt%	1	9/3/2019 5:22:57 PM
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Date: 9/4/2019

Work Order: 1909011
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: LCS-25695		SampType: LCS			Units: mg/Kg		Prep Date: 9/3/2019			RunNo: 53628		
Client ID: LCSS		Batch ID: 25695			Analysis Date: 9/3/2019			SeqNo: 1061678				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	1.09	0.0250	1.000	0	109	43.4	151				
cis-1,2-Dichloroethene	1.06	0.0200	1.000	0	106	71.3	135				
Trichloroethene (TCE)	1.06	0.0200	1.000	0	106	65.5	137				
Tetrachloroethene (PCE)	1.09	0.0250	1.000	0	109	52.7	150				
Surr: Dibromofluoromethane	1.31		1.250		105	56.5	129				
Surr: Toluene-d8	1.27		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.33		1.250		106	54.8	168				

Sample ID: MB-25695		SampType: MBLK			Units: mg/Kg		Prep Date: 9/3/2019			RunNo: 53628		
Client ID: MBLKS		Batch ID: 25695			Analysis Date: 9/3/2019					SeqNo: 1061679		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.27		1.250		101	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.4	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		96.7	54.8	168				

Sample ID: 1909011-007BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/3/2019			RunNo: 53628			
Client ID: 04-07-202-05.5		Batch ID: 25695					Analysis Date: 9/4/2019			SeqNo: 1061672		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.277						0	0	30	D
cis-1,2-Dichloroethene	ND	0.222						0	0	30	D
Trichloroethene (TCE)	ND	0.222						0	0	30	D
Tetrachloroethene (PCE)	0.481	0.277						0.4819	0.138	30	D
Surr: Dibromofluoromethane	14.3		13.86		103	56.5	129		0		D
Surr: Toluene-d8	13.8		13.86		99.3	64.5	151		0		D

Work Order: 1909011
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260D

Sample ID: 1909011-007BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 9/3/2019			RunNo: 53628		
Client ID: 04-07-202-05.5		Batch ID: 25695					Analysis Date: 9/4/2019			SeqNo: 1061672	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	13.1		13.86		94.2	54.8	168		0		D

Sample ID: 1909011-008BMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 9/3/2019			RunNo: 53628		
Client ID: 04-07-202-06.5	Batch ID: 25695	Analysis Date: 9/4/2019							SeqNo: 1061674		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	5.89	0.203	8.104	0	72.6	43.6	150				D
cis-1,2-Dichloroethene	8.30	0.162	8.104	0	102	58.6	136				D
Trichloroethene (TCE)	8.66	0.162	8.104	0	107	61.6	147				D
Tetrachloroethene (PCE)	8.77	0.203	8.104	0.4132	103	35.6	158				D
Surr: Dibromofluoromethane	10.7		10.13		106	56.5	129				D
Surr: Toluene-d8	10.5		10.13		104	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	10.7		10.13		106	54.8	168				D

Sample ID: 1909011-008BMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 9/3/2019			RunNo: 53628		
Client ID: 04-07-202-06.5	Batch ID: 25695	Analysis Date: 9/4/2019							SeqNo: 1061675		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	5.92	0.203	8.104	0	73.0	43.6	150	5.886	0.525	30	D
cis-1,2-Dichloroethene	8.58	0.162	8.104	0	106	58.6	136	8.297	3.39	30	D
Trichloroethene (TCE)	9.39	0.162	8.104	0	116	61.6	147	8.655	8.18	30	D
Tetrachloroethene (PCE)	8.82	0.203	8.104	0.4132	104	35.6	158	8.766	0.604	30	D
Surr: Dibromofluoromethane	10.8		10.13		106	56.5	129		0		D
Surr: Toluene-d8	10.3		10.13		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.7		10.13		106	54.8	168		0		D

Work Order: 1909011
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1909011-001ADUP		SampType: DUP		Units: wt%		Prep Date: 9/3/2019			RunNo: 53626			
Client ID: B-969-05.5		Batch ID: R53626					Analysis Date: 9/3/2019			SeqNo: 1061657		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	16.7	0.500						16.44	1.39	20		

Sample ID: 1909011-008ADUP		SampType: DUP			Units: wt%		Prep Date: 9/3/2019			RunNo: 53626		
Client ID: 04-07-202-06.5		Batch ID: R53626						Analysis Date: 9/3/2019			SeqNo: 1061664	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	14.4	0.500						14.70	1.92	20		

Client Name: **PES**

Work Order Number: **1909011**

Logged by: **Clare Griggs**

Date Received: **9/3/2019 4:57:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☐ No ☒ NA ☐
- Refer to item information.
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

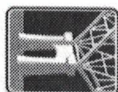
Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Cooler	7.6
Sample	13.4

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



Fremont

Analytical

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 9/13/19 Page: 1 of 1

Project Name: American Linen

Project No: 1413.001.05.402

Collected by: HRC/KSZ

Location: Seattle WA

Report To (PM): Brian O'Neal

PM Email: BOVEAL@PESEM.COM

Laboratory Project No (Internal): 1999011

Special Remarks: SELECT LIST: PCE, TCE, cis-DCE, VC

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES Environmental
Address: 1215 4th Ave #1350
City, State, Zip: Seattle WA 98161
Telephone: (206) 529-3980
Fax: (206) 529-3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)												Comments
				GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	
1 B-969-05.5	9/13/19	1300	S	X												ASAP by 9/14
2 TB-040319		1305	-	X												
3 04-07-204-06		1340	S	X												
4 04-09-201-07.5		1350		X												
5 04-07-201-06		1355		X												
6 04-07-203-06		1400		X												
7 04-07-202-05.5		1405		X												
8 04-07-202-06.5		1410		X												
9																
10																

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time	Turn-around Time:
x Blank Can	9/13/19 1657	x	9/13/19 @ 1657	☐ Standard
Relinquished	Date/Time	Received	Date/Time	☐ 3 Day
x		x		☐ 2 Day
				☐ Next Day
				Same Day (Specify)

Table E-7-1

NV5 Environmental, Inc.

**SMA-5 Mass Excavation Soil Sample Results
American Linen Supply Co Dexter Ave Site
700 Dexter Avenue North, Seattle, Washington**

Sample ID	Sample Date	Concentration (mg/Kg)			
Contained-In Criteria		PCE	TCE	cDCE	VC
		14	10	160	0.67
01-33-100-32	5/22/2019	0.246 U	0.197 U	0.197 U	0.246 U
01-35-100-34 ¹	5/22/2019	41.5	0.0994 U, J	0.195 U	0.244 U
01-37-101-36 ¹	5/22/2019	111	0.205 U	1.05	0.256 U
01-39-100-38 ¹	5/22/2019	21.6	0.218 U	0.285 U	0.273 U
01-101-5 (33.9)* ¹	5/23/2019	0.26 J	0.222 U	0.0996 J	0.277 U
01-101-7 (31.9)*	5/23/2019	4.8	0.253 U	0.216 J	0.316 U
01-101-9 (29.9)*	5/23/2019	0.254 U	0.203 U	0.203 U	0.254 U
01-102-3 (34.6)*	5/23/2019	0.221 U	0.177 U	0.177 U	0.221 U
01-102-6 (31.6)*	5/23/2019	0.285 U	0.228 U	0.0708 J	0.285 U
01-102-8 (29.6)*	5/23/2019	0.237 U	0.19 U	0.19 U	0.237 U
01-103-2 (37.1)*	5/23/2019	0.287 U	0.23 U	0.23 U	0.287 U
01-103-5 (34.1)*	5/23/2019	0.275 U	0.22 U	0.22 U	0.275 U
01-103-7 (32.1)*	5/23/2019	0.292 U	0.233 U	0.233 U	0.292 U
01-104-2 (37.0)*	5/23/2019	0.283 U	0.226 U	0.226 U	0.283 U
01-104-5 (34.0)*	5/23/2019	0.333 U	0.267 U	0.267 U	0.333 U
01-104-7 (32.0)*	5/23/2019	0.255 U	0.204 U	0.204 U	0.255 U
01-105-3 (35.5)*	5/23/2019	2.49	0.145 J	0.175 J	0.235 U
01-105-5 (33.5)*	5/23/2019	2.03	0.0717 J	0.289	0.328 U
01-105-9 (29.5)*	5/23/2019	2.04	0.0522 J	0.0389 J	0.277 U
01-106-2 (37.5)* ¹	5/23/2019	22.7	0.178 J	0.363	0.224 U
01-106-6 (33.5)* ¹	5/23/2019	0.292	0.187 U	0.187 U	0.234 U
01-106-8 (31.5)*	5/23/2019	0.469	0.299 U	0.299 U	0.374 U
01-107-3 (37.0)*	5/23/2019	0.589	0.222 U	0.222 U	0.278 U
01-107-5 (35.0)*	5/23/2019	0.269 U	0.215 U	0.215 U	0.269 U
01-107-7 (33.0)*	5/23/2019	0.71	0.218 U	0.218 U	0.273 U
01-101E-33.6	5/24/2019	0.846	0.185 U	0.0947 J	0.231 U
01-101E-35.6 ¹	5/24/2019	0.416	0.181 U	0.181 U	0.226 U
01-101N-33.6	5/24/2019	0.286 U	0.229 U	0.229 U	0.286 U
01-101N-35.6 ¹	5/24/2019	0.29 U	0.232 U	0.232 U	0.29 U
01-101S-33.6	5/24/2019	0.232 U	0.186 U	0.186 U	0.232 U
01-101S-35.6 ¹	5/24/2019	0.818	0.201 U	0.675	0.251 U
01-101W-33.6	5/24/2019	0.238 U	0.19 U	0.19 U	0.238 U
01-101W-35.6 ¹	5/24/2019	0.479	0.19 U	0.157 J	0.238 U
05-B1-33	5/28/2019	0.268	0.204 U	0.204 U	0.255 U
05-SWW-36	5/28/2019	0.276 U	0.220 U	0.892	0.276 U
05-B2-31.5	5/28/2019	0.256 U	0.205 U	0.130	0.256 U
05-SWN-33.5	5/28/2019	2.49	0.223	0.636	0.272 U
05-SWS-37	5/28/2019	13.4	0.135	4.432	0.259 U
05-33-108-32	5/30/2019	4,260	2.88	2.26	2.27 U
05-31-108-30,5	6/6/2019	0.741	0.367	0.122	0.276 U
Notes: PCE = Tetrachloroethene TCE = Trichloroethene cDCE = Cis 1,2-Dichloroethene VC = Vinyl Chloride 1. Soil represented by sample excavated and disposed of as dangerous waste (34)* Indicates approximate elevation of sample based on the depth shown U = analyte not detected above the reporting limit shown J = analyte detected above the method detection limit but below the reporting limit Lift elevation is the top of each treatment lift Detected results shown in bold Detections above the contained-in criteria are highlighted in gray Sample naming convention: AA-BB-CC Elevation Sample ID Area					



Fremont
Analytical

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PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1905330

May 23, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 4 sample(s) on 5/22/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

CC:
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1905330

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1905330-001	01-35-100-34	05/22/2019 12:30 PM	05/22/2019 3:20 PM
1905330-002	01-33-100-32	05/22/2019 12:35 PM	05/22/2019 3:20 PM
1905330-003	01-39-100-38	05/22/2019 9:31 AM	05/22/2019 3:20 PM
1905330-004	01-37-101-36	05/22/2019 2:35 PM	05/22/2019 3:20 PM

CLIENT: PES Environmental, Inc.**Project:** American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1905330

Date Reported: 5/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1905330-001

Client Sample ID: 01-35-100-34

Collection Date: 5/22/2019 12:30:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24674

Analyst: KT

Vinyl chloride	ND	0.244	D	mg/Kg-dry	10	5/23/2019 1:32:31 AM
cis-1,2-Dichloroethene	ND	0.195	D	mg/Kg-dry	10	5/23/2019 1:32:31 AM
Trichloroethene (TCE)	0.0994	0.195	DJ	mg/Kg-dry	10	5/23/2019 1:32:31 AM
Tetrachloroethene (PCE)	41.5	2.44	D	mg/Kg-dry	100	5/23/2019 7:39:50 AM
Surr: Dibromofluoromethane	96.9	56.5 - 129	D	%Rec	10	5/23/2019 1:32:31 AM
Surr: Toluene-d8	87.5	64.5 - 151	D	%Rec	10	5/23/2019 1:32:31 AM
Surr: 1-Bromo-4-fluorobenzene	93.5	54.8 - 168	D	%Rec	10	5/23/2019 1:32:31 AM

Sample Moisture (Percent Moisture)

Batch ID: R51638

Analyst: PA

Percent Moisture	10.8	0.500		wt%	1	5/22/2019 4:12:27 PM
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Lab ID: 1905330-002

Client Sample ID: 01-33-100-32

Collection Date: 5/22/2019 12:35:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24674

Analyst: KT

Vinyl chloride	ND	0.246	D	mg/Kg-dry	10	5/23/2019 12:31:21 AM
cis-1,2-Dichloroethene	ND	0.197	D	mg/Kg-dry	10	5/23/2019 12:31:21 AM
Trichloroethene (TCE)	ND	0.197	D	mg/Kg-dry	10	5/23/2019 12:31:21 AM
Tetrachloroethene (PCE)	ND	0.246	D	mg/Kg-dry	10	5/23/2019 12:31:21 AM
Surr: Dibromofluoromethane	92.6	56.5 - 129	D	%Rec	10	5/23/2019 12:31:21 AM
Surr: Toluene-d8	87.1	64.5 - 151	D	%Rec	10	5/23/2019 12:31:21 AM
Surr: 1-Bromo-4-fluorobenzene	98.5	54.8 - 168	D	%Rec	10	5/23/2019 12:31:21 AM

Sample Moisture (Percent Moisture)

Batch ID: R51638

Analyst: PA

Percent Moisture	14.5	0.500		wt%	1	5/22/2019 4:12:27 PM
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Analytical Report

Work Order: 1905330

Date Reported: 5/23/2019

CLIENT: PES Environmental, Inc.

Project: American Linen

Lab ID: 1905330-003

Client Sample ID: 01-39-100-38

Collection Date: 5/22/2019 9:31:00 AM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24674

Analyst: KT

Vinyl chloride	ND	0.273	D	mg/Kg-dry	10	5/23/2019 1:01:58 AM
cis-1,2-Dichloroethene	0.285	0.218	D	mg/Kg-dry	10	5/23/2019 1:01:58 AM
Trichloroethene (TCE)	ND	0.218	D	mg/Kg-dry	10	5/23/2019 1:01:58 AM
Tetrachloroethene (PCE)	21.6	2.73	D	mg/Kg-dry	100	5/23/2019 7:09:10 AM
Surr: Dibromofluoromethane	94.0	56.5 - 129	D	%Rec	10	5/23/2019 1:01:58 AM
Surr: Toluene-d8	84.8	64.5 - 151	D	%Rec	10	5/23/2019 1:01:58 AM
Surr: 1-Bromo-4-fluorobenzene	94.3	54.8 - 168	D	%Rec	10	5/23/2019 1:01:58 AM

Sample Moisture (Percent Moisture)

Batch ID: R51638

Analyst: PA

Percent Moisture	15.0	0.500		wt%	1	5/22/2019 4:12:27 PM
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Lab ID: 1905330-004

Client Sample ID: 01-37-101-36

Collection Date: 5/22/2019 2:35:00 PM

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24674

Analyst: KT

Vinyl chloride	ND	0.256	D	mg/Kg-dry	10	5/23/2019 2:03:12 AM
cis-1,2-Dichloroethene	1.05	0.205	D	mg/Kg-dry	10	5/23/2019 2:03:12 AM
Trichloroethene (TCE)	ND	0.205	D	mg/Kg-dry	10	5/23/2019 2:03:12 AM
Tetrachloroethene (PCE)	111	2.56	D	mg/Kg-dry	100	5/23/2019 8:10:30 AM
Surr: Dibromofluoromethane	97.2	56.5 - 129	D	%Rec	10	5/23/2019 2:03:12 AM
Surr: Toluene-d8	86.1	64.5 - 151	D	%Rec	10	5/23/2019 2:03:12 AM
Surr: 1-Bromo-4-fluorobenzene	93.7	54.8 - 168	D	%Rec	10	5/23/2019 2:03:12 AM

Sample Moisture (Percent Moisture)

Batch ID: R51638

Analyst: PA

Percent Moisture	10.2	0.500		wt%	1	5/22/2019 4:12:27 PM
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Date: 5/23/2019

Work Order: 1905330
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT
Volatile Organic Compounds by EPA Method 8260C

Sample ID: LCS-24674	SampType: LCS	Units: mg/Kg				Prep Date: 5/22/2019			RunNo: 51648		
Client ID: LCSS	Batch ID: 24674	Analysis Date: 5/22/2019						SeqNo: 1018529			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.937	0.0250	1.000	0	93.7	43.4	151				
cis-1,2-Dichloroethene	0.894	0.0200	1.000	0	89.4	71.3	135				
Trichloroethene (TCE)	0.927	0.0200	1.000	0	92.7	65.5	137				
Tetrachloroethene (PCE)	0.949	0.0250	1.000	0	94.9	52.7	150				
Surr: Dibromofluoromethane	1.37		1.250		109	56.5	129				
Surr: Toluene-d8	1.16		1.250		93.1	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	54.8	168				

Sample ID: MB-24674	SampType: MBLK	Units: mg/Kg				Prep Date: 5/22/2019			RunNo: 51648		
Client ID: MBLKS	Batch ID: 24674					Analysis Date: 5/22/2019			SeqNo: 1018530		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.18		1.250		94.3	56.5	129				
Surr: Toluene-d8	1.21		1.250		96.7	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		96.4	54.8	168				

Sample ID: 1905294-001BDUP		SampType: DUP		Units: mg/Kg-dry		Prep Date: 5/22/2019			RunNo: 51648		
Client ID: BATCH		Batch ID: 24674					Analysis Date: 5/22/2019			SeqNo: 1018509	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0324						0	0	30	
cis-1,2-Dichloroethene	ND	0.0259						0	0	30	
Trichloroethene (TCE)	ND	0.0259						0	0	30	
Tetrachloroethene (PCE)	ND	0.0324						0	0	30	
Surr: Dibromofluoromethane	1.57		1.620		96.8	56.5	129		0		
Surr: Toluene-d8	1.42		1.620		87.6	64.5	151		0		

Work Order: 1905330
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID: 1905294-001BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 5/22/2019			RunNo: 51648		
Client ID: BATCH		Batch ID: 24674			Analysis Date: 5/22/2019					SeqNo: 1018509		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: 1-Bromo-4-fluorobenzene	1.62		1.620		99.9	54.8	168		0		
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Sample ID: 1905294-007BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 5/22/2019			RunNo: 51648		
Client ID: BATCH		Batch ID: 24674			Analysis Date: 5/22/2019			SeqNo: 1018514				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0511						0	0	30	
cis-1,2-Dichloroethene	ND	0.0409						0	0	30	
Trichloroethene (TCE)	ND	0.0409						0	0	30	
Tetrachloroethene (PCE)	ND	0.0511						0	0	30	
Surr: Dibromofluoromethane	2.34		2.555		91.5	56.5	129		0		
Surr: Toluene-d8	2.47		2.555		96.7	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	2.48		2.555		96.9	54.8	168		0		

Sample ID: 1905294-002BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 5/22/2019			RunNo: 51648			
Client ID: BATCH		Batch ID: 24674					Analysis Date: 5/22/2019			SeqNo: 1018511		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	0.983	0.0380	1.518	0	64.7	43.6	150				
cis-1,2-Dichloroethene	1.22	0.0304	1.518	0	80.5	58.6	136				
Trichloroethene (TCE)	1.10	0.0304	1.518	0	72.2	61.6	147				
Tetrachloroethene (PCE)	1.07	0.0380	1.518	0	70.7	35.6	158				
Surr: Dibromofluoromethane	1.94		1.898		102	56.5	129				
Surr: Toluene-d8	1.64		1.898		86.5	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	2.23		1.898		118	54.8	168				

Work Order: 1905330
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID: 1905294-002BMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 5/22/2019			RunNo: 51648		
Client ID: BATCH	Batch ID: 24674	Analysis Date: 5/22/2019							SeqNo: 1018512		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.21	0.0380	1.518	0	79.5	43.6	150	0.9829	20.5	30	
cis-1,2-Dichloroethene	1.50	0.0304	1.518	0	99.1	58.6	136	1.223	20.7	30	
Trichloroethene (TCE)	1.35	0.0304	1.518	0	89.2	61.6	147	1.096	21.1	30	
Tetrachloroethene (PCE)	1.33	0.0380	1.518	0	87.6	35.6	158	1.073	21.4	30	
Surr: Dibromofluoromethane	1.92		1.898		101	56.5	129		0		
Surr: Toluene-d8	1.61		1.898		84.8	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.92		1.898		101	54.8	168		0		



Work Order: 1905330
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1905330-001ADUP		SampType: DUP			Units: wt%		Prep Date: 5/22/2019		RunNo: 51638		
Client ID: 01-35-100-34		Batch ID: R51638			Analysis Date: 5/22/2019				SeqNo: 1018410		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	10.0	0.500						10.80	7.35	20	

Client Name: **PES**

Work Order Number: **1905330**

Logged by: **Clare Griggs**

Date Received: **5/22/2019 3:20:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Cooler	9.6
Sample	4.1
Temp Blank	3.3

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
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info@fremontanalytical.com

PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1905347

May 24, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 23 sample(s) on 5/23/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1905347

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1905347-001	TB-052219	05/22/2019 3:26 PM	05/23/2019 3:20 PM
1905347-002	01-101-5	05/23/2019 1:50 PM	05/23/2019 3:20 PM
1905347-003	01-101-7	05/23/2019 1:52 PM	05/23/2019 3:20 PM
1905347-004	01-101-9	05/23/2019 1:55 PM	05/23/2019 3:20 PM
1905347-005	01-102-3	05/23/2019 2:05 PM	05/23/2019 3:20 PM
1905347-006	01-102-6	05/23/2019 2:02 PM	05/23/2019 3:20 PM
1905347-007	01-102-8	05/23/2019 2:00 PM	05/23/2019 3:20 PM
1905347-008	01-103-2	05/23/2019 2:07 PM	05/23/2019 3:20 PM
1905347-009	01-103-5	05/23/2019 2:09 PM	05/23/2019 3:20 PM
1905347-010	01-103-7	05/23/2019 2:11 PM	05/23/2019 3:20 PM
1905347-011	01-104-2	05/23/2019 2:13 PM	05/23/2019 3:20 PM
1905347-012	01-104-5	05/23/2019 2:17 PM	05/23/2019 3:20 PM
1905347-013	01-104-7	05/23/2019 2:20 PM	05/23/2019 3:20 PM
1905347-014	01-105-3	05/23/2019 2:22 PM	05/23/2019 3:20 PM
1905347-015	01-105-5	05/23/2019 2:25 PM	05/23/2019 3:20 PM
1905347-016	01-105-9	05/23/2019 2:28 PM	05/23/2019 3:20 PM
1905347-017	01-106-2	05/23/2019 2:30 PM	05/23/2019 3:20 PM
1905347-018	01-106-6	05/23/2019 2:32 PM	05/23/2019 3:20 PM
1905347-019	01-106-8	05/23/2019 2:34 PM	05/23/2019 3:20 PM
1905347-020	B-940-2	05/23/2019 2:15 PM	05/23/2019 3:20 PM
1905347-021	01-107-3	05/23/2019 2:36 PM	05/23/2019 3:20 PM
1905347-022	01-107-5	05/23/2019 2:37 PM	05/23/2019 3:20 PM
1905347-023	01-107-7	05/23/2019 2:38 PM	05/23/2019 3:20 PM

CLIENT: PES Environmental, Inc.**Project:** American Linen

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/22/2019 3:26:00 PM

Project: American Linen

Lab ID: 1905347-001

Matrix: Soil

Client Sample ID: TB-052219

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.0250		mg/Kg	1	5/23/2019 5:31:45 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	5/23/2019 5:31:45 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	5/23/2019 5:31:45 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	5/23/2019 5:31:45 PM
Surr: Dibromofluoromethane	93.7	56.5 - 129		%Rec	1	5/23/2019 5:31:45 PM
Surr: Toluene-d8	102	64.5 - 151		%Rec	1	5/23/2019 5:31:45 PM
Surr: 1-Bromo-4-fluorobenzene	99.0	54.8 - 168		%Rec	1	5/23/2019 5:31:45 PM



Client: PES Environmental, Inc.

Collection Date: 5/23/2019 1:50:00 PM

Project: American Linen

Lab ID: 1905347-002

Matrix: Soil

Client Sample ID: 01-101-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.277	D	mg/Kg-dry	10	5/23/2019 6:01:52 PM
cis-1,2-Dichloroethene	0.0996	0.222	DJ	mg/Kg-dry	10	5/23/2019 6:01:52 PM
Trichloroethene (TCE)	ND	0.222	D	mg/Kg-dry	10	5/23/2019 6:01:52 PM
Tetrachloroethene (PCE)	0.260	0.277	DJ	mg/Kg-dry	10	5/23/2019 6:01:52 PM
Surr: Dibromofluoromethane	95.9	56.5 - 129	D	%Rec	10	5/23/2019 6:01:52 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	5/23/2019 6:01:52 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/23/2019 6:01:52 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	14.8	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 1:52:00 PM

Project: American Linen

Lab ID: 1905347-003

Matrix: Soil

Client Sample ID: 01-101-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.316	D	mg/Kg-dry	10	5/23/2019 6:31:58 PM
cis-1,2-Dichloroethene	0.216	0.253	DJ	mg/Kg-dry	10	5/23/2019 6:31:58 PM
Trichloroethene (TCE)	ND	0.253	D	mg/Kg-dry	10	5/23/2019 6:31:58 PM
Tetrachloroethene (PCE)	4.80	0.316	D	mg/Kg-dry	10	5/23/2019 6:31:58 PM
Surr: Dibromofluoromethane	94.2	56.5 - 129	D	%Rec	10	5/23/2019 6:31:58 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	5/23/2019 6:31:58 PM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/23/2019 6:31:58 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	12.6	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 1:55:00 PM

Project: American Linen

Lab ID: 1905347-004

Matrix: Soil

Client Sample ID: 01-101-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.254	D	mg/Kg-dry	10	5/23/2019 7:02:07 PM
cis-1,2-Dichloroethene	ND	0.203	D	mg/Kg-dry	10	5/23/2019 7:02:07 PM
Trichloroethene (TCE)	ND	0.203	D	mg/Kg-dry	10	5/23/2019 7:02:07 PM
Tetrachloroethene (PCE)	ND	0.254	D	mg/Kg-dry	10	5/23/2019 7:02:07 PM
Surr: Dibromofluoromethane	96.0	56.5 - 129	D	%Rec	10	5/23/2019 7:02:07 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/23/2019 7:02:07 PM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/23/2019 7:02:07 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	15.1	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:05:00 PM

Project: American Linen

Lab ID: 1905347-005

Matrix: Soil

Client Sample ID: 01-102-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.221	D	mg/Kg-dry	10	5/23/2019 7:32:15 PM
cis-1,2-Dichloroethene	ND	0.177	D	mg/Kg-dry	10	5/23/2019 7:32:15 PM
Trichloroethene (TCE)	ND	0.177	D	mg/Kg-dry	10	5/23/2019 7:32:15 PM
Tetrachloroethene (PCE)	ND	0.221	D	mg/Kg-dry	10	5/23/2019 7:32:15 PM
Surr: Dibromofluoromethane	96.4	56.5 - 129	D	%Rec	10	5/23/2019 7:32:15 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	5/23/2019 7:32:15 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/23/2019 7:32:15 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	11.1	0.500		wt%	1	5/23/2019 4:47:34 PM
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Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:02:00 PM

Project: American Linen

Lab ID: 1905347-006

Matrix: Soil

Client Sample ID: 01-102-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.285	D	mg/Kg-dry	10	5/23/2019 9:30:19 PM
cis-1,2-Dichloroethene	0.0708	0.228	DJ	mg/Kg-dry	10	5/23/2019 9:30:19 PM
Trichloroethene (TCE)	ND	0.228	D	mg/Kg-dry	10	5/23/2019 9:30:19 PM
Tetrachloroethene (PCE)	ND	0.285	D	mg/Kg-dry	10	5/23/2019 9:30:19 PM
Surr: Dibromofluoromethane	96.4	56.5 - 129	D	%Rec	10	5/23/2019 9:30:19 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/23/2019 9:30:19 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/23/2019 9:30:19 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	16.5	0.500		wt%	1	5/23/2019 4:47:34 PM
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Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:00:00 PM

Project: American Linen

Lab ID: 1905347-007

Matrix: Soil

Client Sample ID: 01-102-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.237	D	mg/Kg-dry	10	5/23/2019 10:00:25 PM
cis-1,2-Dichloroethene	ND	0.190	D	mg/Kg-dry	10	5/23/2019 10:00:25 PM
Trichloroethene (TCE)	ND	0.190	D	mg/Kg-dry	10	5/23/2019 10:00:25 PM
Tetrachloroethene (PCE)	ND	0.237	D	mg/Kg-dry	10	5/23/2019 10:00:25 PM
Surr: Dibromofluoromethane	96.0	56.5 - 129	D	%Rec	10	5/23/2019 10:00:25 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/23/2019 10:00:25 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	5/23/2019 10:00:25 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	13.0	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:07:00 PM

Project: American Linen

Lab ID: 1905347-008

Matrix: Soil

Client Sample ID: 01-103-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.287	D	mg/Kg-dry	10	5/23/2019 10:30:33 PM
cis-1,2-Dichloroethene	ND	0.230	D	mg/Kg-dry	10	5/23/2019 10:30:33 PM
Trichloroethene (TCE)	ND	0.230	D	mg/Kg-dry	10	5/23/2019 10:30:33 PM
Tetrachloroethene (PCE)	ND	0.287	D	mg/Kg-dry	10	5/23/2019 10:30:33 PM
Surr: Dibromofluoromethane	96.1	56.5 - 129	D	%Rec	10	5/23/2019 10:30:33 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/23/2019 10:30:33 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/23/2019 10:30:33 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	9.27	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:09:00 PM

Project: American Linen

Lab ID: 1905347-009

Matrix: Soil

Client Sample ID: 01-103-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.275	D	mg/Kg-dry	10	5/23/2019 11:00:40 PM
cis-1,2-Dichloroethene	ND	0.220	D	mg/Kg-dry	10	5/23/2019 11:00:40 PM
Trichloroethene (TCE)	ND	0.220	D	mg/Kg-dry	10	5/23/2019 11:00:40 PM
Tetrachloroethene (PCE)	ND	0.275	D	mg/Kg-dry	10	5/23/2019 11:00:40 PM
Surr: Dibromofluoromethane	96.8	56.5 - 129	D	%Rec	10	5/23/2019 11:00:40 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/23/2019 11:00:40 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	5/23/2019 11:00:40 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	13.6	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:11:00 PM

Project: American Linen

Lab ID: 1905347-010

Matrix: Soil

Client Sample ID: 01-103-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.292	D	mg/Kg-dry	10	5/23/2019 11:30:48 PM
cis-1,2-Dichloroethene	ND	0.233	D	mg/Kg-dry	10	5/23/2019 11:30:48 PM
Trichloroethene (TCE)	ND	0.233	D	mg/Kg-dry	10	5/23/2019 11:30:48 PM
Tetrachloroethene (PCE)	ND	0.292	D	mg/Kg-dry	10	5/23/2019 11:30:48 PM
Surr: Dibromofluoromethane	97.2	56.5 - 129	D	%Rec	10	5/23/2019 11:30:48 PM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	5/23/2019 11:30:48 PM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/23/2019 11:30:48 PM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	10.3	0.500		wt%	1	5/23/2019 4:47:34 PM
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Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:13:00 PM

Project: American Linen

Lab ID: 1905347-011

Matrix: Soil

Client Sample ID: 01-104-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.283	D	mg/Kg-dry	10	5/24/2019 12:00:55 AM
cis-1,2-Dichloroethene	ND	0.226	D	mg/Kg-dry	10	5/24/2019 12:00:55 AM
Trichloroethene (TCE)	ND	0.226	D	mg/Kg-dry	10	5/24/2019 12:00:55 AM
Tetrachloroethene (PCE)	ND	0.283	D	mg/Kg-dry	10	5/24/2019 12:00:55 AM
Surr: Dibromofluoromethane	98.5	56.5 - 129	D	%Rec	10	5/24/2019 12:00:55 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/24/2019 12:00:55 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	5/24/2019 12:00:55 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	8.64	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:17:00 PM

Project: American Linen

Lab ID: 1905347-012

Matrix: Soil

Client Sample ID: 01-104-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.333	D	mg/Kg-dry	10	5/24/2019 12:31:02 AM
cis-1,2-Dichloroethene	ND	0.267	D	mg/Kg-dry	10	5/24/2019 12:31:02 AM
Trichloroethene (TCE)	ND	0.267	D	mg/Kg-dry	10	5/24/2019 12:31:02 AM
Tetrachloroethene (PCE)	ND	0.333	D	mg/Kg-dry	10	5/24/2019 12:31:02 AM
Surr: Dibromofluoromethane	99.0	56.5 - 129	D	%Rec	10	5/24/2019 12:31:02 AM
Surr: Toluene-d8	104	64.5 - 151	D	%Rec	10	5/24/2019 12:31:02 AM
Surr: 1-Bromo-4-fluorobenzene	105	54.8 - 168	D	%Rec	10	5/24/2019 12:31:02 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	13.3	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:20:00 PM

Project: American Linen

Lab ID: 1905347-013

Matrix: Soil

Client Sample ID: 01-104-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.255	D	mg/Kg-dry	10	5/24/2019 1:01:11 AM
cis-1,2-Dichloroethene	ND	0.204	D	mg/Kg-dry	10	5/24/2019 1:01:11 AM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	5/24/2019 1:01:11 AM
Tetrachloroethene (PCE)	ND	0.255	D	mg/Kg-dry	10	5/24/2019 1:01:11 AM
Surr: Dibromofluoromethane	96.6	56.5 - 129	D	%Rec	10	5/24/2019 1:01:11 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	5/24/2019 1:01:11 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	5/24/2019 1:01:11 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	12.5	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:22:00 PM

Project: American Linen

Lab ID: 1905347-014

Matrix: Soil

Client Sample ID: 01-105-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.235	D	mg/Kg-dry	10	5/24/2019 1:31:20 AM
cis-1,2-Dichloroethene	0.175	0.188	DJ	mg/Kg-dry	10	5/24/2019 1:31:20 AM
Trichloroethene (TCE)	0.145	0.188	DJ	mg/Kg-dry	10	5/24/2019 1:31:20 AM
Tetrachloroethene (PCE)	2.49	0.235	D	mg/Kg-dry	10	5/24/2019 1:31:20 AM
Surr: Dibromofluoromethane	96.3	56.5 - 129	D	%Rec	10	5/24/2019 1:31:20 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	5/24/2019 1:31:20 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	5/24/2019 1:31:20 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	10.3	0.500		wt%	1	5/23/2019 4:47:34 PM
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Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:25:00 PM

Project: American Linen

Lab ID: 1905347-015

Matrix: Soil

Client Sample ID: 01-105-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.328	D	mg/Kg-dry	10	5/24/2019 2:01:27 AM
cis-1,2-Dichloroethene	0.289	0.262	D	mg/Kg-dry	10	5/24/2019 2:01:27 AM
Trichloroethene (TCE)	0.0717	0.262	DJ	mg/Kg-dry	10	5/24/2019 2:01:27 AM
Tetrachloroethene (PCE)	2.03	0.328	D	mg/Kg-dry	10	5/24/2019 2:01:27 AM
Surr: Dibromofluoromethane	97.4	56.5 - 129	D	%Rec	10	5/24/2019 2:01:27 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	5/24/2019 2:01:27 AM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/24/2019 2:01:27 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	18.3	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:28:00 PM

Project: American Linen

Lab ID: 1905347-016

Matrix: Soil

Client Sample ID: 01-105-9

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.277	D	mg/Kg-dry	10	5/24/2019 2:31:34 AM
cis-1,2-Dichloroethene	0.0389	0.221	DJ	mg/Kg-dry	10	5/24/2019 2:31:34 AM
Trichloroethene (TCE)	0.0522	0.221	DJ	mg/Kg-dry	10	5/24/2019 2:31:34 AM
Tetrachloroethene (PCE)	2.04	0.277	D	mg/Kg-dry	10	5/24/2019 2:31:34 AM
Surr: Dibromofluoromethane	98.0	56.5 - 129	D	%Rec	10	5/24/2019 2:31:34 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/24/2019 2:31:34 AM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/24/2019 2:31:34 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	15.4	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:30:00 PM

Project: American Linen

Lab ID: 1905347-017

Matrix: Soil

Client Sample ID: 01-106-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.224	D	mg/Kg-dry	10	5/24/2019 3:01:41 AM
cis-1,2-Dichloroethene	0.363	0.179	D	mg/Kg-dry	10	5/24/2019 3:01:41 AM
Trichloroethene (TCE)	0.178	0.179	DJ	mg/Kg-dry	10	5/24/2019 3:01:41 AM
Tetrachloroethene (PCE)	22.7	2.24	D	mg/Kg-dry	100	5/24/2019 10:02:19 AM
Surr: Dibromofluoromethane	96.1	56.5 - 129	D	%Rec	10	5/24/2019 3:01:41 AM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	5/24/2019 3:01:41 AM
Surr: 1-Bromo-4-fluorobenzene	105	54.8 - 168	D	%Rec	10	5/24/2019 3:01:41 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	12.4	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:32:00 PM

Project: American Linen

Lab ID: 1905347-018

Matrix: Soil

Client Sample ID: 01-106-6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	5/24/2019 3:31:48 AM
cis-1,2-Dichloroethene	ND	0.187	D	mg/Kg-dry	10	5/24/2019 3:31:48 AM
Trichloroethene (TCE)	ND	0.187	D	mg/Kg-dry	10	5/24/2019 3:31:48 AM
Tetrachloroethene (PCE)	0.292	0.234	D	mg/Kg-dry	10	5/24/2019 3:31:48 AM
Surr: Dibromofluoromethane	96.3	56.5 - 129	D	%Rec	10	5/24/2019 3:31:48 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/24/2019 3:31:48 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	5/24/2019 3:31:48 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	13.8	0.500		wt%	1	5/23/2019 4:47:34 PM
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Analytical Report

Work Order: 1905347
Date Reported: 5/24/2019

Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:34:00 PM

Project: American Linen

Lab ID: 1905347-019

Matrix: Soil

Client Sample ID: 01-106-8

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.374	D	mg/Kg-dry	10	5/24/2019 4:01:58 AM
cis-1,2-Dichloroethene	ND	0.299	D	mg/Kg-dry	10	5/24/2019 4:01:58 AM
Trichloroethene (TCE)	ND	0.299	D	mg/Kg-dry	10	5/24/2019 4:01:58 AM
Tetrachloroethene (PCE)	0.469	0.374	D	mg/Kg-dry	10	5/24/2019 4:01:58 AM
Surr: Dibromofluoromethane	94.7	56.5 - 129	D	%Rec	10	5/24/2019 4:01:58 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	5/24/2019 4:01:58 AM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	5/24/2019 4:01:58 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	16.8	0.500		wt%	1	5/23/2019 4:47:34 PM
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Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:15:00 PM

Project: American Linen

Lab ID: 1905347-020

Matrix: Soil

Client Sample ID: B-940-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24695

Analyst: TN

Vinyl chloride	ND	0.261	D	mg/Kg-dry	10	5/24/2019 4:32:07 AM
cis-1,2-Dichloroethene	ND	0.209	D	mg/Kg-dry	10	5/24/2019 4:32:07 AM
Trichloroethene (TCE)	ND	0.209	D	mg/Kg-dry	10	5/24/2019 4:32:07 AM
Tetrachloroethene (PCE)	ND	0.261	D	mg/Kg-dry	10	5/24/2019 4:32:07 AM
Surr: Dibromofluoromethane	97.2	56.5 - 129	D	%Rec	10	5/24/2019 4:32:07 AM
Surr: Toluene-d8	104	64.5 - 151	D	%Rec	10	5/24/2019 4:32:07 AM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/24/2019 4:32:07 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	8.25	0.500		wt%	1	5/23/2019 4:47:34 PM
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Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:36:00 PM

Project: American Linen

Lab ID: 1905347-021

Matrix: Soil

Client Sample ID: 01-107-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24703

Analyst: TN

Vinyl chloride	ND	0.278	D	mg/Kg-dry	10	5/24/2019 9:32:10 AM
cis-1,2-Dichloroethene	ND	0.222	D	mg/Kg-dry	10	5/24/2019 9:32:10 AM
Trichloroethene (TCE)	ND	0.222	D	mg/Kg-dry	10	5/24/2019 9:32:10 AM
Tetrachloroethene (PCE)	0.589	0.278	D	mg/Kg-dry	10	5/24/2019 9:32:10 AM
Surr: Dibromofluoromethane	97.2	56.5 - 129	D	%Rec	10	5/24/2019 9:32:10 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	5/24/2019 9:32:10 AM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	5/24/2019 9:32:10 AM

Sample Moisture (Percent Moisture)

Batch ID: R51673

Analyst: CG

Percent Moisture	8.20	0.500		wt%	1	5/23/2019 4:47:34 PM
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Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:37:00 PM

Project: American Linen

Lab ID: 1905347-022

Matrix: Soil

Client Sample ID: 01-107-5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24703

Analyst: TN

Vinyl chloride	ND	0.269	D	mg/Kg-dry	10	5/24/2019 8:31:54 AM
cis-1,2-Dichloroethene	ND	0.215	D	mg/Kg-dry	10	5/24/2019 8:31:54 AM
Trichloroethene (TCE)	ND	0.215	D	mg/Kg-dry	10	5/24/2019 8:31:54 AM
Tetrachloroethene (PCE)	ND	0.269	D	mg/Kg-dry	10	5/24/2019 8:31:54 AM
Surr: Dibromofluoromethane	98.6	56.5 - 129	D	%Rec	10	5/24/2019 8:31:54 AM
Surr: Toluene-d8	104	64.5 - 151	D	%Rec	10	5/24/2019 8:31:54 AM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/24/2019 8:31:54 AM

Sample Moisture (Percent Moisture)

Batch ID: R51674

Analyst: CG

Percent Moisture	9.15	0.500		wt%	1	5/23/2019 4:52:33 PM
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Client: PES Environmental, Inc.

Collection Date: 5/23/2019 2:38:00 PM

Project: American Linen

Lab ID: 1905347-023

Matrix: Soil

Client Sample ID: 01-107-7

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24703

Analyst: TN

Vinyl chloride	ND	0.273	D	mg/Kg-dry	10	5/24/2019 9:02:02 AM
cis-1,2-Dichloroethene	ND	0.218	D	mg/Kg-dry	10	5/24/2019 9:02:02 AM
Trichloroethene (TCE)	ND	0.218	D	mg/Kg-dry	10	5/24/2019 9:02:02 AM
Tetrachloroethene (PCE)	0.710	0.273	D	mg/Kg-dry	10	5/24/2019 9:02:02 AM
Surr: Dibromofluoromethane	96.9	56.5 - 129	D	%Rec	10	5/24/2019 9:02:02 AM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	5/24/2019 9:02:02 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	5/24/2019 9:02:02 AM

Sample Moisture (Percent Moisture)

Batch ID: R51674

Analyst: CG

Percent Moisture	11.5	0.500		wt%	1	5/23/2019 4:52:33 PM
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Work Order: 1905347
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-24695	SampType:	LCS	Units:	mg/Kg	Prep Date:	5/23/2019	RunNo:	51680		
Client ID:	LCSS	Batch ID:	24695			Analysis Date:	5/23/2019	SeqNo:	1019269		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.988	0.0250	1.000	0	98.8	43.4	151				
cis-1,2-Dichloroethene	0.970	0.0200	1.000	0	97.0	71.3	135				
Trichloroethene (TCE)	0.999	0.0200	1.000	0	99.9	65.5	137				
Tetrachloroethene (PCE)	0.970	0.0250	1.000	0	97.0	52.7	150				
Surr: Dibromofluoromethane	1.22		1.250		97.6	56.5	129				
Surr: Toluene-d8	1.28		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		96.9	54.8	168				

Sample ID	MB-24695	SampType:	MBLK		Units:	mg/Kg		Prep Date:	5/23/2019		RunNo:	51680	
Client ID:	MBLKS	Batch ID:	24695					Analysis Date:	5/23/2019		SeqNo:	1019271	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Vinyl chloride		ND	0.0250										
cis-1,2-Dichloroethene		ND	0.0200										
Trichloroethene (TCE)		ND	0.0200										
Tetrachloroethene (PCE)		ND	0.0250										
Surr: Dibromofluoromethane		1.16		1.250		93.1	56.5	129					
Surr: Toluene-d8		1.27		1.250		102	64.5	151					
Surr: 1-Bromo-4-fluorobenzene		1.24		1.250		99.5	54.8	168					

Sample ID	LCSD-24695	SampType:	LCSD	Units:	mg/Kg	Prep Date:	5/23/2019	RunNo:	51680		
Client ID:	LCSS02	Batch ID:	24695			Analysis Date:	5/23/2019	SeqNo:	1019270		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.956	0.0250	1.000	0	95.6	43.4	151	0.9877	3.31	20	
cis-1,2-Dichloroethene	0.953	0.0200	1.000	0	95.3	71.6	123	0.9698	1.76	20	
Trichloroethene (TCE)	0.992	0.0200	1.000	0	99.2	65.5	137	0.9989	0.724	20	
Tetrachloroethene (PCE)	0.990	0.0250	1.000	0	99.0	52.7	150	0.9699	2.05	20	
Surr: Dibromofluoromethane	1.22		1.250		97.9	56.5	129		0		
Surr: Toluene-d8	1.29		1.250		103	64.5	151		0		

Work Order: 1905347
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCSD-24695	SampType:	LCSD	Units:	mg/Kg	Prep Date:	5/23/2019	RunNo:	51680		
Client ID:	LCSS02	Batch ID:	24695			Analysis Date:	5/23/2019	SeqNo:	1019270		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	1.22		1.250		97.7	54.8	168		0		
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Sample ID	1905347-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/23/2019	RunNo:	51680		
Client ID:	01-101-5	Batch ID:	24695			Analysis Date:	5/24/2019	SeqNo:	1019246		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.277						0	0	30	D
cis-1,2-Dichloroethene	0.115	0.222						0.09957	14.1	30	DJ
Trichloroethene (TCE)	ND	0.222						0	0	30	D
Tetrachloroethene (PCE)	0.317	0.277						0.2600	19.8	30	D
Surr: Dibromofluoromethane	13.4		13.86		96.9	56.5	129		0		D
Surr: Toluene-d8	14.1		13.86		102	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	14.0		13.86		101	54.8	168		0		D

Sample ID	1905347-008BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/23/2019	RunNo:	51680		
Client ID:	01-103-2	Batch ID:	24695			Analysis Date:	5/24/2019	SeqNo:	1019253		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.287						0	0	30	D
cis-1,2-Dichloroethene	ND	0.230						0	0	30	D
Trichloroethene (TCE)	ND	0.230						0	0	30	D
Tetrachloroethene (PCE)	ND	0.287						0	0	30	D
Surr: Dibromofluoromethane	13.8		14.36		96.0	56.5	129		0		D
Surr: Toluene-d8	14.7		14.36		102	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	14.4		14.36		100	54.8	168		0		D

Work Order: 1905347
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-24703	SampType: LCS			Units: mg/Kg		Prep Date: 5/23/2019			RunNo: 51682		
Client ID:	LCSS	Batch ID: 24703			Analysis Date: 5/24/2019					SeqNo: 1019412		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	1.01	0.0250	1.000	0	101	43.4	151				
cis-1,2-Dichloroethene	1.09	0.0200	1.000	0	109	71.3	135				
Trichloroethene (TCE)	1.10	0.0200	1.000	0	110	65.5	137				
Tetrachloroethene (PCE)	1.09	0.0250	1.000	0	109	52.7	150				
Surr: Dibromofluoromethane	1.22		1.250		97.6	56.5	129				
Surr: Toluene-d8	1.29		1.250		103	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		96.9	54.8	168				

Sample ID	MB-24703	SampType: MBLK			Units: mg/Kg		Prep Date: 5/23/2019			RunNo: 51682		
Client ID:	MBLKS	Batch ID: 24703			Analysis Date: 5/24/2019					SeqNo: 1019413		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.20		1.250		96.3	56.5	129				
Surr: Toluene-d8	1.28		1.250		103	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.24		1.250		99.1	54.8	168				



Work Order: 1905347
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID	1905347-003ADUP	SampType: DUP			Units: wt%		Prep Date: 5/23/2019			RunNo: 51673		
Client ID:	01-101-7	Batch ID: R51673						Analysis Date: 5/23/2019			SeqNo: 1019144	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		12.9	0.500						12.60	2.06	20	

Sample ID	1905347-020ADUP	SampType: DUP			Units: wt%		Prep Date: 5/23/2019			RunNo: 51673		
Client ID:	B-940-2	Batch ID: R51673						Analysis Date: 5/23/2019			SeqNo: 1019162	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		8.83	0.500						8.254	6.73	20	

Sample ID	1905346-001ADUP	SampType: DUP			Units: wt%		Prep Date: 5/23/2019			RunNo: 51674		
Client ID:	BATCH	Batch ID: R51674						Analysis Date: 5/23/2019			SeqNo: 1019177	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		12.3	0.500						12.96	5.35	20	

Sample ID	1905346-009ADUP	SampType: DUP			Units: wt%		Prep Date: 5/23/2019			RunNo: 51674		
Client ID:	BATCH	Batch ID: R51674						Analysis Date: 5/23/2019			SeqNo: 1019186	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		13.4	0.500						13.44	0.552	20	

Sample ID	1905310-002ADUP	SampType: DUP			Units: wt%		Prep Date: 5/23/2019			RunNo: 51674		
Client ID:	BATCH	Batch ID: R51674						Analysis Date: 5/23/2019			SeqNo: 1019220	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture		20.0	0.500						19.27	3.79	20	

Client Name: **PES**

Work Order Number: **1905347**

Logged by: **Brianna Barnes**

Date Received: **5/23/2019 3:20:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of >0°C to 10.0°C * Yes ☐ No ☒ NA ☐

Received straight from field

8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☒ No ☐ NA ☐

Person Notified:	<u>Rachel McLaughlin</u>	Date	<u>5/23/2019</u>
By Whom:	<u>Brianna Barnes</u>	Via:	☒ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	<u>Confirming sampling date.</u>		
Client Instructions:	<u>All samples taken on 5/23/19.</u>		

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	13.7
Sample	14.8
Temp Blank	15.4

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 5/23/19 Page: 1 of 3

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: R. McLAUGHLIN / B. HECHT

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@PESENVA.COM

Laboratory Project No (Internal): 1905347

Special Remarks: ASAP TAT

B. ONEAL / R. McLAUGHLIN
CALLED AHEAD

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL

Address: 1215 4th AVE Ste 1350

City, State, Zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCS (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
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1 TB-052219 5/22/19 1526 S X

2 01-101-5 1350 S

3 01-101-7 1352

4 01-101-9 1355

5 01-102-3 1405

6 01-102-6 1402

7 01-102-8 1400

8 01-103-2 1407

9 01-103-5 1409

10 01-103-7 1411 S X

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time 5/23/19 1520

Received Date/Time 5/23/19 1520

Relinquished Date/Time 5/23/19 1520



3600 Fremont Ave. N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 5/23/19 Page: 3 of 3
Project Name: AMERICAN LINEN
Project No: 1413.001.05.402
Collected by: SEE PG 1
Location: SEE PG 1
Report To (PM):
PM Email:

ASAP TAT

Laboratory Project No (Internal):
Special Remarks:

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL
Address: SEE PG 1
City, State, Zip:
Telephone:
Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCS (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SVOCs (EPA 8270 - SIM)	PAHs (EPA 8270 - 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 01-157-3	5/23/19	1436	S	X													
2 01-107-5		1437	S														
3 01-107-7		1438	S	X													
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water
**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn
***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite
I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:

☐ Standard
☐ 3 Day
☐ 2 Day

☒ Next Day

Same Day ASAP (specify)

Relinquished Date/Time 5/23/19 1520
Received Date/Time 5/23/19 1520

www.fremontanalytical.com



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 5/23/19 Page: 1 of: 3

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: R. McLAUGHLIN / B. HECHT

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@PESEN.V.COM

Laboratory Project No (Internal): 1905347

Special Remarks:

ASAP TAT
B. ONEAL / R. McLAUGHLIN
CALLED AHEAD

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL

Address: 1215 4th AVE STE 1350

City, State, Zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name		Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DX)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)**	EDB (8011)	Comments	
1	1B-052219	5/22/19	1526	-	X														Sample Date revision per
2	01-101-5	5/23/19	1350	S															
3	01-101-7		1352																
4	01-101-9		1355																
5	01-102-3		1405																
6	01-102-6		1402																
7	01-102-8		1400																
8	01-103-2		1407																
9	01-103-5		1409																
10	01-103-7		1411																

Turn-around Time:

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sn Se Sr Si Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
<u>5/23/19 1520</u>	<u>5/23/19 1520</u>	<u>5/23/19 1520</u>	<u>5/23/19 1520</u>
Relinquished	Date/Time	Received	Date/Time

Turn-around Time:

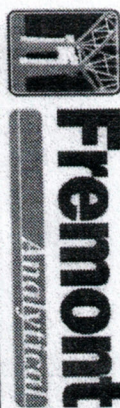
☐ Standard

☐ 3 Day

☐ 2 Day

☒ Next Day

Same Day ASAP (specify)



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Client: **FES ENVIRONMENTAL**

Address:

City, State, Zip:

Telephone:

Fax:

Date: **5/23/19** Page: **2** of **3**

Project Name: **AMERICAN UNEN**

Project No: **1413.00/05.402**

Collected by:

Location: **SEE PG 1**

Report to (PM):

PM Email:

Laboratory Project No (Internal):

Special Remarks:

ASAP TAT

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Sample Name

Sample Date

Sample Time

Sample Type (Matrix)*

VOCs (EPA 8260 / 624)
GX/BTEX
BTEX

Gasoline Range Organics (GX)
Hydrocarbon Identification (HICID)
Diesel/Heavy Oil Range Organics (DX)

SVOCs (EPA 8270 / 625)
PAHs (EPA 8270 - SIM)
PCBs (EPA 8082 / 608)

Metals** (EPA 6020 / 200.8)
Total (T) | Dissolved (D)
Anions (IC)***
EDB (8011)

Comments

1 01-104-2
2 01-104-5
3 01-104-7
4 01-105-3
5 01-105-5
6 01-105-9
7 01-106-2
8 01-106-6
9 01-106-8
10 B-940-2

5/23/19
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*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished

Date/Time

5/23/19 1528

Received

Date/Time

5/23/19 1520

Turn-around Time:

Standard

3 Day

2 Day

Next Day

ASAP

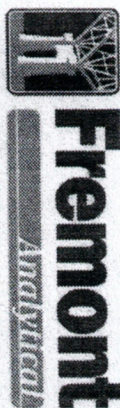
Relinquished

Date/Time

Received

Date/Time

Same Day (specify)



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 5/23/19 Page: 3 of 3

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Laboratory Project No (Internal):
Special Remarks:

ASAP TAT

Client: PES ENVIRONMENTAL

Address: SEE PG 1

City, State, Zip: SEE PG 1

Telephone: SEE PG 1

Fax: SEE PG 1

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)												Comments
				GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SVOCS (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)	
1 01-107-3	5/23/19	1436	S	X												
2 01-107-5		1437	S	X												
3 01-107-7	X	1438	S	X												
4																
5																
6																
7																
8																
9																
10																

Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
5/23/19 1520	5/23/19 1520		
Relinquished	Date/Time	Received	Date/Time

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☒ Next Day

Same Day ASAP



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1905362

May 31, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 10 sample(s) on 5/24/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1905362

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1905362-001	E30/31-TB-36	05/24/2019 8:37 AM	05/24/2019 1:11 PM
1905362-002	01-101W-35.6	05/24/2019 12:05 PM	05/24/2019 1:11 PM
1905362-003	01-101W-33.6	05/24/2019 12:07 PM	05/24/2019 1:11 PM
1905362-004	01-101E-35.6	05/24/2019 12:09 PM	05/24/2019 1:11 PM
1905362-005	01-101E-33.6	05/24/2019 12:10 PM	05/24/2019 1:11 PM
1905362-006	01-101N-35.6	05/24/2019 12:27 PM	05/24/2019 1:11 PM
1905362-007	01-101N-33.6	05/24/2019 12:30 PM	05/24/2019 1:11 PM
1905362-008	01-101S-35.6	05/24/2019 12:32 PM	05/24/2019 1:11 PM
1905362-009	01-101S-33.6	05/24/2019 12:35 PM	05/24/2019 1:11 PM
1905362-010	TB-052219	05/22/2019 3:26 PM	05/24/2019 1:11 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: PES Environmental, Inc.

Collection Date: 5/24/2019 8:37:00 AM

Project: American Linen

Lab ID: 1905362-001

Matrix: Soil

Client Sample ID: E30/31-TB-36

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24735

Analyst: KT

Vinyl chloride	ND	0.229	D	mg/Kg-dry	10	5/28/2019 7:05:18 PM
cis-1,2-Dichloroethene	ND	0.183	D	mg/Kg-dry	10	5/28/2019 7:05:18 PM
Trichloroethene (TCE)	ND	0.183	D	mg/Kg-dry	10	5/28/2019 7:05:18 PM
Tetrachloroethene (PCE)	0.155	0.229	DJ	mg/Kg-dry	10	5/28/2019 7:05:18 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	5/28/2019 7:05:18 PM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	5/28/2019 7:05:18 PM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/28/2019 7:05:18 PM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	9.45	0.500		wt%	1	5/24/2019 3:30:29 PM
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Analytical Report

Work Order: 1905362
Date Reported: 5/31/2019

Client: PES Environmental, Inc.

Collection Date: 5/24/2019 12:05:00 PM

Project: American Linen

Lab ID: 1905362-002

Matrix: Soil

Client Sample ID: 01-101W-35.6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24723

Analyst: KT

Vinyl chloride	ND	0.238	D	mg/Kg-dry	10	5/24/2019 11:07:53 PM
cis-1,2-Dichloroethene	0.157	0.190	DJ	mg/Kg-dry	10	5/24/2019 11:07:53 PM
Trichloroethene (TCE)	ND	0.190	D	mg/Kg-dry	10	5/24/2019 11:07:53 PM
Tetrachloroethene (PCE)	0.479	0.238	D	mg/Kg-dry	10	5/24/2019 11:07:53 PM
Surr: Dibromofluoromethane	98.6	56.5 - 129	D	%Rec	10	5/24/2019 11:07:53 PM
Surr: Toluene-d8	99.4	64.5 - 151	D	%Rec	10	5/24/2019 11:07:53 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/24/2019 11:07:53 PM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	19.2	0.500		wt%	1	5/24/2019 3:30:29 PM
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Analytical Report

Work Order: 1905362
Date Reported: 5/31/2019

Client: PES Environmental, Inc.

Collection Date: 5/24/2019 12:07:00 PM

Project: American Linen

Lab ID: 1905362-003

Matrix: Soil

Client Sample ID: 01-101W-33.6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24723

Analyst: KT

Vinyl chloride	ND	0.238	D	mg/Kg-dry	10	5/24/2019 11:38:01 PM
cis-1,2-Dichloroethene	ND	0.190	D	mg/Kg-dry	10	5/24/2019 11:38:01 PM
Trichloroethene (TCE)	ND	0.190	D	mg/Kg-dry	10	5/24/2019 11:38:01 PM
Tetrachloroethene (PCE)	ND	0.238	D	mg/Kg-dry	10	5/24/2019 11:38:01 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	5/24/2019 11:38:01 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	5/24/2019 11:38:01 PM
Surr: 1-Bromo-4-fluorobenzene	105	54.8 - 168	D	%Rec	10	5/24/2019 11:38:01 PM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	15.4	0.500		wt%	1	5/24/2019 3:30:29 PM
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Client: PES Environmental, Inc.

Collection Date: 5/24/2019 12:09:00 PM

Project: American Linen

Lab ID: 1905362-004

Matrix: Soil

Client Sample ID: 01-101E-35.6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24723

Analyst: KT

Vinyl chloride	ND	0.226	D	mg/Kg-dry	10	5/25/2019 12:08:07 AM
cis-1,2-Dichloroethene	ND	0.181	D	mg/Kg-dry	10	5/25/2019 12:08:07 AM
Trichloroethene (TCE)	ND	0.181	D	mg/Kg-dry	10	5/25/2019 12:08:07 AM
Tetrachloroethene (PCE)	0.416	0.226	D	mg/Kg-dry	10	5/25/2019 12:08:07 AM
Surr: Dibromofluoromethane	99.2	56.5 - 129	D	%Rec	10	5/25/2019 12:08:07 AM
Surr: Toluene-d8	99.7	64.5 - 151	D	%Rec	10	5/25/2019 12:08:07 AM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/25/2019 12:08:07 AM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	13.6	0.500		wt%	1	5/24/2019 3:30:29 PM
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Analytical Report

Work Order: 1905362
Date Reported: 5/31/2019

Client: PES Environmental, Inc.

Collection Date: 5/24/2019 12:10:00 PM

Project: American Linen

Lab ID: 1905362-005

Matrix: Soil

Client Sample ID: 01-101E-33.6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24723

Analyst: KT

Vinyl chloride	ND	0.231	D	mg/Kg-dry	10	5/25/2019 1:08:22 AM
cis-1,2-Dichloroethene	0.0947	0.185	DJ	mg/Kg-dry	10	5/25/2019 1:08:22 AM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	5/25/2019 1:08:22 AM
Tetrachloroethene (PCE)	0.846	0.231	D	mg/Kg-dry	10	5/25/2019 1:08:22 AM
Surr: Dibromofluoromethane	97.7	56.5 - 129	D	%Rec	10	5/25/2019 1:08:22 AM
Surr: Toluene-d8	99.1	64.5 - 151	D	%Rec	10	5/25/2019 1:08:22 AM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/25/2019 1:08:22 AM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	14.2	0.500		wt%	1	5/24/2019 3:30:29 PM
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Analytical Report

Work Order: 1905362
Date Reported: 5/31/2019

Client: PES Environmental, Inc.

Collection Date: 5/24/2019 12:27:00 PM

Project: American Linen

Lab ID: 1905362-006

Matrix: Soil

Client Sample ID: 01-101N-35.6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24723

Analyst: KT

Vinyl chloride	ND	0.290	D	mg/Kg-dry	10	5/25/2019 1:38:30 AM
cis-1,2-Dichloroethene	ND	0.232	D	mg/Kg-dry	10	5/25/2019 1:38:30 AM
Trichloroethene (TCE)	ND	0.232	D	mg/Kg-dry	10	5/25/2019 1:38:30 AM
Tetrachloroethene (PCE)	ND	0.290	D	mg/Kg-dry	10	5/25/2019 1:38:30 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	5/25/2019 1:38:30 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/25/2019 1:38:30 AM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/25/2019 1:38:30 AM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	6.91	0.500		wt%	1	5/24/2019 3:30:29 PM
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Analytical Report

Work Order: 1905362
Date Reported: 5/31/2019

Client: PES Environmental, Inc.

Collection Date: 5/24/2019 12:30:00 PM

Project: American Linen

Lab ID: 1905362-007

Matrix: Soil

Client Sample ID: 01-101N-33.6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24723

Analyst: KT

Vinyl chloride	ND	0.286	D	mg/Kg-dry	10	5/25/2019 4:39:16 AM
cis-1,2-Dichloroethene	ND	0.229	D	mg/Kg-dry	10	5/25/2019 4:39:16 AM
Trichloroethene (TCE)	ND	0.229	D	mg/Kg-dry	10	5/25/2019 4:39:16 AM
Tetrachloroethene (PCE)	ND	0.286	D	mg/Kg-dry	10	5/25/2019 4:39:16 AM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	5/25/2019 4:39:16 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	5/25/2019 4:39:16 AM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/25/2019 4:39:16 AM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	12.0	0.500		wt%	1	5/24/2019 3:30:29 PM
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Analytical Report

Work Order: 1905362
Date Reported: 5/31/2019

Client: PES Environmental, Inc.

Collection Date: 5/24/2019 12:32:00 PM

Project: American Linen

Lab ID: 1905362-008

Matrix: Soil

Client Sample ID: 01-101S-35.6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24723

Analyst: KT

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	5/25/2019 2:38:44 AM
cis-1,2-Dichloroethene	0.675	0.201	D	mg/Kg-dry	10	5/25/2019 2:38:44 AM
Trichloroethene (TCE)	ND	0.201	D	mg/Kg-dry	10	5/25/2019 2:38:44 AM
Tetrachloroethene (PCE)	0.818	0.251	D	mg/Kg-dry	10	5/25/2019 2:38:44 AM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	5/25/2019 2:38:44 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/25/2019 2:38:44 AM
Surr: 1-Bromo-4-fluorobenzene	105	54.8 - 168	D	%Rec	10	5/25/2019 2:38:44 AM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	16.6	0.500		wt%	1	5/24/2019 3:30:29 PM
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Analytical Report

Work Order: 1905362
Date Reported: 5/31/2019

Client: PES Environmental, Inc.

Collection Date: 5/24/2019 12:35:00 PM

Project: American Linen

Lab ID: 1905362-009

Matrix: Soil

Client Sample ID: 01-101S-33.6

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24723

Analyst: KT

Vinyl chloride	ND	0.232	D	mg/Kg-dry	10	5/25/2019 3:08:53 AM
cis-1,2-Dichloroethene	ND	0.186	D	mg/Kg-dry	10	5/25/2019 3:08:53 AM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	5/25/2019 3:08:53 AM
Tetrachloroethene (PCE)	ND	0.232	D	mg/Kg-dry	10	5/25/2019 3:08:53 AM
Surr: Dibromofluoromethane	99.6	56.5 - 129	D	%Rec	10	5/25/2019 3:08:53 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/25/2019 3:08:53 AM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/25/2019 3:08:53 AM

Sample Moisture (Percent Moisture)

Batch ID: R51701

Analyst: CG

Percent Moisture	13.3	0.500		wt%	1	5/24/2019 3:30:29 PM
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Client: PES Environmental, Inc.

Collection Date: 5/22/2019 3:26:00 PM

Project: American Linen

Lab ID: 1905362-010

Matrix: Soil

Client Sample ID: TB-052219

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24735

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	5/28/2019 7:35:26 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	5/28/2019 7:35:26 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	5/28/2019 7:35:26 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	5/28/2019 7:35:26 PM
Surr: Dibromofluoromethane	101	56.5 - 129		%Rec	1	5/28/2019 7:35:26 PM
Surr: Toluene-d8	103	64.5 - 151		%Rec	1	5/28/2019 7:35:26 PM
Surr: 1-Bromo-4-fluorobenzene	99.9	54.8 - 168		%Rec	1	5/28/2019 7:35:26 PM

Work Order: 1905362
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-24723	SampType: LCS		Units: mg/Kg		Prep Date: 5/24/2019			RunNo: 51712		
Client ID:	LCSS	Batch ID: 24723		Analysis Date: 5/24/2019			SeqNo: 1019950				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	0.907	0.0250	1.000	0	90.7	43.4	151				
cis-1,2-Dichloroethene	1.03	0.0200	1.000	0	103	71.3	135				
Trichloroethene (TCE)	1.02	0.0200	1.000	0	102	65.5	137				
Tetrachloroethene (PCE)	1.02	0.0250	1.000	0	102	52.7	150				
Surr: Dibromofluoromethane	1.27		1.250		101	56.5	129				
Surr: Toluene-d8	1.28		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		100	54.8	168				

Sample ID	MB-24723	SampType: MBLK			Units: mg/Kg		Prep Date: 5/24/2019			RunNo: 51712		
Client ID:	MBLKS	Batch ID: 24723			Analysis Date: 5/24/2019					SeqNo: 1019951		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.24		1.250		99.5	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	54.8	168				

Sample ID	1905362-004BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/24/2019	RunNo:	51712		
Client ID:	01-101E-35.6	Batch ID:	24723			Analysis Date:	5/25/2019	SeqNo:	1019939		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.226						0	0	30	D
cis-1,2-Dichloroethene	ND	0.181						0	0	30	D
Trichloroethene (TCE)	ND	0.181						0	0	30	D
Tetrachloroethene (PCE)	0.464	0.226						0.4159	11.0	30	D
Surr: Dibromofluoromethane	11.1		11.29		98.7	56.5	129		0		D
Surr: Toluene-d8	11.4		11.29		101	64.5	151		0		D

Work Order: 1905362
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1905362-004BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/24/2019	RunNo:	51712		
Client ID:	01-101E-35.6	Batch ID:	24723			Analysis Date:	5/25/2019	SeqNo:	1019939		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	11.8		11.29		105	54.8	168		0		D

Sample ID	1905362-009BMS	SampType:	MS	Units:	mg/Kg-dry	Prep Date:	5/24/2019	RunNo:	51712		
Client ID:	01-101S-33.6	Batch ID:	24723	Analysis Date:				5/25/2019	SeqNo:	1019946	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	8.87	0.232	9.286	0	95.5	43.6	150				D
cis-1,2-Dichloroethene	8.87	0.186	9.286	0	95.5	58.6	136				D
Trichloroethene (TCE)	8.80	0.186	9.286	0	94.7	61.6	147				D
Tetrachloroethene (PCE)	8.94	0.232	9.286	0	96.3	35.6	158				D
Surr: Dibromofluoromethane	11.8		11.61		102	56.5	129				D
Surr: Toluene-d8	11.7		11.61		101	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	11.6		11.61		99.9	54.8	168				D

Sample ID	1905362-009BMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	5/24/2019	RunNo:	51712		
Client ID:	01-101S-33.6	Batch ID:	24723	Analysis Date:				5/25/2019	SeqNo:	1019947	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	8.93	0.232	9.286	0	96.2	43.6	150	8.868	0.686	30	D
cis-1,2-Dichloroethene	9.14	0.186	9.286	0	98.4	58.6	136	8.868	2.99	30	D
Trichloroethene (TCE)	9.03	0.186	9.286	0	97.3	61.6	147	8.798	2.65	30	D
Tetrachloroethene (PCE)	9.11	0.232	9.286	0	98.1	35.6	158	8.944	1.88	30	D
Surr: Dibromofluoromethane	11.9		11.61		102	56.5	129		0		D
Surr: Toluene-d8	11.8		11.61		102	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.0		11.61		104	54.8	168		0		D



Work Order: 1905362
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-24735	SampType:	LCS	Units:	mg/Kg	Prep Date:	5/28/2019	RunNo:	51747		
Client ID:	LCSS	Batch ID:	24735			Analysis Date:	5/28/2019	SeqNo:	1020899		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.11	0.0250	1.000	0	111	43.4	151				
cis-1,2-Dichloroethene	1.03	0.0200	1.000	0	103	71.3	135				
Trichloroethene (TCE)	1.04	0.0200	1.000	0	104	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.27		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168				

Sample ID	MB-24735	SampType:	MBLK		Units:	mg/Kg		Prep Date:	5/28/2019		RunNo:	51747	
Client ID:	MBLKS	Batch ID:	24735					Analysis Date:	5/28/2019		SeqNo:	1020900	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Vinyl chloride		ND	0.0250										
cis-1,2-Dichloroethene		ND	0.0200										
Trichloroethene (TCE)		ND	0.0200										
Tetrachloroethene (PCE)		ND	0.0250										
Surr: Dibromofluoromethane		1.29		1.250		103	56.5	129					
Surr: Toluene-d8		1.29		1.250		103	64.5	151					
Surr: 1-Bromo-4-fluorobenzene		1.23		1.250		98.6	54.8	168					

Sample ID	1905381-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/28/2019	RunNo:	51747		
Client ID:	BATCH	Batch ID:	24735			Analysis Date:	5/28/2019	SeqNo:	1020886		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.276						0	0	30	D
cis-1,2-Dichloroethene	0.956	0.220						0.8916	6.95	30	D
Trichloroethene (TCE)	ND	0.220						0	0	30	D
Tetrachloroethene (PCE)	ND	0.276						0	0	30	D
Surr: Dibromofluoromethane	14.2		13.78		103	56.5	129		0		D
Surr: Toluene-d8	14.2		13.78		103	64.5	151		0		D

Work Order: 1905362
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1905381-002BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	5/28/2019	RunNo:	51747		
Client ID:	BATCH	Batch ID:	24735			Analysis Date:	5/28/2019	SeqNo:	1020886		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	14.5		13.78		106	54.8	168		0		D

Sample ID	1905386-003BDUP	SampType:	DUP	Units:		mg/Kg-dry		Prep Date:	5/28/2019		RunNo:	51747
Client ID:	BATCH	Batch ID:	24735					Analysis Date:	5/29/2019		SeqNo:	1020896
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Vinyl chloride	ND	0.261						0	0	30	D	
cis-1,2-Dichloroethene	ND	0.208						0	0	30	D	
Trichloroethene (TCE)	ND	0.208						0	0	30	D	
Tetrachloroethene (PCE)	0.411	0.261						0.3762	8.71	30	D	
Surr: Dibromofluoromethane	13.3		13.03		102	56.5	129		0		D	
Surr: Toluene-d8	13.5		13.03		104	64.5	151		0		D	
Surr: 1-Bromo-4-fluorobenzene	13.3		13.03		102	54.8	168		0		D	

Sample ID	1905381-005BMS	SampType:	MS			Units:	mg/Kg-dry			Prep Date:	5/28/2019			RunNo:	51747			
Client ID:	BATCH	Batch ID:	24735			Analysis Date:						5/29/2019			SeqNo:	1020890		
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual					
Vinyl chloride		9.04	0.259	10.34	0	87.5	43.6	150					D					
cis-1,2-Dichloroethene		9.46	0.207	10.34	0.4320	87.3	58.6	136					D					
Trichloroethene (TCE)		9.02	0.207	10.34	0.1346	85.9	61.6	147					D					
Tetrachloroethene (PCE)		21.0	0.259	10.34	13.38	74.2	35.6	158					D					
Surr: Dibromofluoromethane		13.6		12.93		105	56.5	129					D					
Surr: Toluene-d8		13.2		12.93		102	64.5	151					D					
Surr: 1-Bromo-4-fluorobenzene		13.5		12.93		105	54.8	168					D					

Work Order: 1905362
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	1905381-005BMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	5/28/2019	RunNo:	51747		
Client ID:	BATCH	Batch ID:	24735	Analysis Date:				5/29/2019	SeqNo:	1020891	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.62	0.259	10.34	0	93.1	43.6	150	9.045	6.21	30	D
cis-1,2-Dichloroethene	9.65	0.207	10.34	0.4320	89.1	58.6	136	9.459	1.95	30	D
Trichloroethene (TCE)	9.30	0.207	10.34	0.1346	88.6	61.6	147	9.018	3.04	30	D
Tetrachloroethene (PCE)	22.4	0.259	10.34	13.38	87.4	35.6	158	21.05	6.31	30	D
Surr: Dibromofluoromethane	13.5		12.93		104	56.5	129		0		D
Surr: Toluene-d8	13.3		12.93		103	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.3		12.93		103	54.8	168		0		D

Work Order: 1905362
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID	1905362-009ADUP	SampType:	DUP	Units:	wt%	Prep Date:	5/24/2019	RunNo:	51701		
Client ID:	01-101S-33.6	Batch ID:	R51701			Analysis Date:	5/24/2019	SeqNo:	1019664		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	14.2	0.500						13.34	6.16	20	

Sample ID	1905366-006ADUP	SampType:	DUP	Units:	wt%	Prep Date:	5/24/2019	RunNo:	51701		
Client ID:	BATCH	Batch ID:	R51701			Analysis Date:	5/24/2019	SeqNo:	1019671		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.0	0.500						12.55	3.25	20	

Client Name: **PES**

Work Order Number: **1905362**

Logged by: **Clare Griggs**

Date Received: **5/24/2019 1:11:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☐ No ☒ NA ☐
- Most samples received straight from field.**
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp °C
Cooler	5.2
Sample	10.2

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 5/24/19 Page: 1 of 1

Project Name: AMERICAN UNEN

Project No: 1413.001.05.402

Collected by: R. MCLAUGHLIN

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@PESENV.COM

Laboratory Project No (Internal): 14053102

Special Remarks:

ASAP TURN
TUES AM
BRIAN O. CALLED AHEAD

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL

Address: 1215 4th Ave Ste 1350

City, State, Zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
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STANDARD TAT

RUSH

1	E30/31-TB-36	5/24/19	0837	S	X													
2	01-1010-35.6		1205															
3	01-1010-33.6		1207															
4	01-1010-35.6		1209															
5	01-1010-33.6		1210															
6	01-1010-35.6		1227															
7	01-1010-33.6		1230															
8	01-1010-35.6		1232															
9	01-1010-33.6	X	1235	X														
10	TB-0522A19		1526	-	X													

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time

Received

Date/Time

Relinquished Date/Time

Received

Date/Time

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☒ Next Day

Same Day

(Specify)



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1905381

May 29, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 6 sample(s) on 5/28/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

CC:

Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1905381

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1905381-001	05-B1-33	05/28/2019 1:00 PM	05/28/2019 2:10 PM
1905381-002	05-SWW-36	05/28/2019 1:04 PM	05/28/2019 2:10 PM
1905381-003	05-B2-31.5	05/28/2019 1:08 PM	05/28/2019 2:10 PM
1905381-004	05-SWN-33.5	05/28/2019 1:15 PM	05/28/2019 2:10 PM
1905381-005	05-SWS-37	05/28/2019 1:20 PM	05/28/2019 2:10 PM
1905381-006	TB-052219	05/22/2019 3:26 PM	05/28/2019 2:10 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1905381
Date Reported: 5/29/2019

Client: PES Environmental, Inc.

Collection Date: 5/28/2019 1:00:00 PM

Project: American Linen

Lab ID: 1905381-001

Matrix: Soil

Client Sample ID: 05-B1-33

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24735

Analyst: KT

Vinyl chloride	ND	0.255	D	mg/Kg-dry	10	5/28/2019 8:05:34 PM
cis-1,2-Dichloroethene	ND	0.204	D	mg/Kg-dry	10	5/28/2019 8:05:34 PM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	5/28/2019 8:05:34 PM
Tetrachloroethene (PCE)	0.268	0.255	D	mg/Kg-dry	10	5/28/2019 8:05:34 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	5/28/2019 8:05:34 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/28/2019 8:05:34 PM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/28/2019 8:05:34 PM

Sample Moisture (Percent Moisture)

Batch ID: R51738

Analyst: PA

Percent Moisture	13.1	0.500		wt%	1	5/28/2019 3:02:40 PM
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Analytical Report

Work Order: 1905381
Date Reported: 5/29/2019

Client: PES Environmental, Inc.

Collection Date: 5/28/2019 1:04:00 PM

Project: American Linen

Lab ID: 1905381-002

Matrix: Soil

Client Sample ID: 05-SWW-36

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24735

Analyst: KT

Vinyl chloride	ND	0.276	D	mg/Kg-dry	10	5/28/2019 8:35:42 PM
cis-1,2-Dichloroethene	0.892	0.220	D	mg/Kg-dry	10	5/28/2019 8:35:42 PM
Trichloroethene (TCE)	ND	0.220	D	mg/Kg-dry	10	5/28/2019 8:35:42 PM
Tetrachloroethene (PCE)	ND	0.276	D	mg/Kg-dry	10	5/28/2019 8:35:42 PM
Surr: Dibromofluoromethane	99.9	56.5 - 129	D	%Rec	10	5/28/2019 8:35:42 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	5/28/2019 8:35:42 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/28/2019 8:35:42 PM

Sample Moisture (Percent Moisture)

Batch ID: R51738

Analyst: PA

Percent Moisture	17.8	0.500		wt%	1	5/28/2019 3:02:40 PM
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Analytical Report

Work Order: 1905381
Date Reported: 5/29/2019

Client: PES Environmental, Inc.

Collection Date: 5/28/2019 1:08:00 PM

Project: American Linen

Lab ID: 1905381-003

Matrix: Soil

Client Sample ID: 05-B2-31.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24735

Analyst: KT

Vinyl chloride	ND	0.256	D	mg/Kg-dry	10	5/28/2019 9:35:54 PM
cis-1,2-Dichloroethene	0.130	0.205	JD	mg/Kg-dry	10	5/28/2019 9:35:54 PM
Trichloroethene (TCE)	ND	0.205	D	mg/Kg-dry	10	5/28/2019 9:35:54 PM
Tetrachloroethene (PCE)	ND	0.256	D	mg/Kg-dry	10	5/28/2019 9:35:54 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	5/28/2019 9:35:54 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/28/2019 9:35:54 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/28/2019 9:35:54 PM

Sample Moisture (Percent Moisture)

Batch ID: R51738

Analyst: PA

Percent Moisture	15.4	0.500		wt%	1	5/28/2019 3:02:40 PM
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Analytical Report

Work Order: 1905381
Date Reported: 5/29/2019

Client: PES Environmental, Inc.

Collection Date: 5/28/2019 1:15:00 PM

Project: American Linen

Lab ID: 1905381-004

Matrix: Soil

Client Sample ID: 05-SWN-33.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24735

Analyst: KT

Vinyl chloride	ND	0.272	D	mg/Kg-dry	10	5/28/2019 10:06:00 PM
cis-1,2-Dichloroethene	0.636	0.218	D	mg/Kg-dry	10	5/28/2019 10:06:00 PM
Trichloroethene (TCE)	0.223	0.218	D	mg/Kg-dry	10	5/28/2019 10:06:00 PM
Tetrachloroethene (PCE)	2.49	0.272	D	mg/Kg-dry	10	5/28/2019 10:06:00 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	5/28/2019 10:06:00 PM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	5/28/2019 10:06:00 PM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	10	5/28/2019 10:06:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R51738

Analyst: PA

Percent Moisture	16.0	0.500		wt%	1	5/28/2019 3:02:40 PM
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Analytical Report

Work Order: 1905381
Date Reported: 5/29/2019

Client: PES Environmental, Inc.

Collection Date: 5/28/2019 1:20:00 PM

Project: American Linen

Lab ID: 1905381-005

Matrix: Soil

Client Sample ID: 05-SWS-37

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24735

Analyst: KT

Vinyl chloride	ND	0.259	D	mg/Kg-dry	10	5/28/2019 10:36:09 PM
cis-1,2-Dichloroethene	0.432	0.207	D	mg/Kg-dry	10	5/28/2019 10:36:09 PM
Trichloroethene (TCE)	0.135	0.207	DJ	mg/Kg-dry	10	5/28/2019 10:36:09 PM
Tetrachloroethene (PCE)	13.4	0.259	D	mg/Kg-dry	10	5/28/2019 10:36:09 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	5/28/2019 10:36:09 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	5/28/2019 10:36:09 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	5/28/2019 10:36:09 PM

Sample Moisture (Percent Moisture)

Batch ID: R51738

Analyst: PA

Percent Moisture	14.8	0.500		wt%	1	5/28/2019 3:02:40 PM
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Client: PES Environmental, Inc.

Collection Date: 5/22/2019 3:26:00 PM

Project: American Linen

Lab ID: 1905381-006

Matrix: Soil

Client Sample ID: TB-052219

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24735

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	5/28/2019 11:06:19 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	5/28/2019 11:06:19 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	5/28/2019 11:06:19 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	5/28/2019 11:06:19 PM
Surr: Dibromofluoromethane	101	56.5 - 129		%Rec	1	5/28/2019 11:06:19 PM
Surr: Toluene-d8	102	64.5 - 151		%Rec	1	5/28/2019 11:06:19 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168		%Rec	1	5/28/2019 11:06:19 PM

Work Order: 1905381
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID: LCS-24735		SampType: LCS			Units: mg/Kg		Prep Date: 5/28/2019			RunNo: 51747		
Client ID: LCSS		Batch ID: 24735			Analysis Date: 5/28/2019			SeqNo: 1020899				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	1.11	0.0250	1.000	0	111	43.4	151				
cis-1,2-Dichloroethene	1.03	0.0200	1.000	0	103	71.3	135				
Trichloroethene (TCE)	1.04	0.0200	1.000	0	104	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.27		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168				

Sample ID: MB-24735		SampType: MBLK		Units: mg/Kg		Prep Date: 5/28/2019			RunNo: 51747			
Client ID: MBLKS		Batch ID: 24735					Analysis Date: 5/28/2019			SeqNo: 1020900		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129				
Surr: Toluene-d8	1.29		1.250		103	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.6	54.8	168				

Sample ID: 1905381-002BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 5/28/2019			RunNo: 51747		
Client ID: 05-SWW-36		Batch ID: 24735			Analysis Date: 5/28/2019			SeqNo: 1020886				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.276						0	0	30	D
cis-1,2-Dichloroethene	0.956	0.220						0.8916	6.95	30	D
Trichloroethene (TCE)	ND	0.220						0	0	30	D
Tetrachloroethene (PCE)	ND	0.276						0	0	30	D
Surr: Dibromofluoromethane	14.2		13.78		103	56.5	129		0		D
Surr: Toluene-d8	14.2		13.78		103	64.5	151		0		D

Work Order: 1905381
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID: 1905381-002BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 5/28/2019			RunNo: 51747		
Client ID: 05-SWW-36		Batch ID: 24735			Analysis Date: 5/28/2019			SeqNo: 1020886				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: 1-Bromo-4-fluorobenzene	14.5		13.78		106	54.8	168		0		D
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Sample ID: 1905386-003BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 5/28/2019			RunNo: 51747		
Client ID: BATCH		Batch ID: 24735			Analysis Date: 5/29/2019			SeqNo: 1020896				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.261						0	0	30	D
cis-1,2-Dichloroethene	ND	0.208						0	0	30	D
Trichloroethene (TCE)	ND	0.208						0	0	30	D
Tetrachloroethene (PCE)	0.411	0.261						0.3762	8.71	30	D
Surr: Dibromofluoromethane	13.3		13.03		102	56.5	129		0		D
Surr: Toluene-d8	13.5		13.03		104	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.3		13.03		102	54.8	168		0		D

Sample ID: 1905381-005BMS		SampType: MS		Units: mg/Kg-dry		Prep Date: 5/28/2019			RunNo: 51747			
Client ID: 05-SWS-37		Batch ID: 24735					Analysis Date: 5/29/2019			SeqNo: 1020890		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	9.04	0.259	10.34	0	87.5	43.6	150				D
cis-1,2-Dichloroethene	9.46	0.207	10.34	0.4320	87.3	58.6	136				D
Trichloroethene (TCE)	9.02	0.207	10.34	0.1346	85.9	61.6	147				D
Tetrachloroethene (PCE)	21.0	0.259	10.34	13.38	74.2	35.6	158				D
Surr: Dibromofluoromethane	13.6		12.93		105	56.5	129				D
Surr: Toluene-d8	13.2		12.93		102	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	13.5		12.93		105	54.8	168				D

Work Order: 1905381
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID: 1905381-005BMSD	SampType: MSD	Units: mg/Kg-dry				Prep Date: 5/28/2019			RunNo: 51747		
Client ID: 05-SWS-37	Batch ID: 24735	Analysis Date: 5/29/2019							SeqNo: 1020891		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.62	0.259	10.34	0	93.1	43.6	150	9.045	6.21	30	D
cis-1,2-Dichloroethene	9.65	0.207	10.34	0.4320	89.1	58.6	136	9.459	1.95	30	D
Trichloroethene (TCE)	9.30	0.207	10.34	0.1346	88.6	61.6	147	9.018	3.04	30	D
Tetrachloroethene (PCE)	22.4	0.259	10.34	13.38	87.4	35.6	158	21.05	6.31	30	D
Surr: Dibromofluoromethane	13.5		12.93		104	56.5	129		0		D
Surr: Toluene-d8	13.3		12.93		103	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.3		12.93		103	54.8	168		0		D



Work Order: 1905381
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1905381-005ADUP		SampType: DUP			Units: wt%		Prep Date: 5/28/2019		RunNo: 51738		
Client ID: 05-SWS-37		Batch ID: R51738			Analysis Date: 5/28/2019				SeqNo: 1020611		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	15.1	0.500						14.78	1.88	20	

Client Name: **PES**
 Logged by: **Clare Griggs**

Work Order Number: **1905381**
 Date Received: **5/28/2019 2:10:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
 2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
 4. Shipping container/cooler in good condition? Yes ☒ No ☐
 5. Custody Seals present on shipping container/cooler?
 (Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
 6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
 7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C^* Yes ☐ No ☒ NA ☐

Samples received straight from field.

8. Sample(s) in proper container(s)? Yes ☒ No ☐
 9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
 10. Are samples properly preserved? Yes ☒ No ☐
 11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
 12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
 13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
 14. Does paperwork match bottle labels? Yes ☒ No ☐
 15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
 16. Is it clear what analyses were requested? Yes ☒ No ☐
 17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

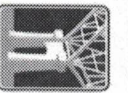
Person Notified: Date:
 By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
 Regarding:
 Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Cooler	14.7
Sample	18.6

* Note: DoD/ELAP and TNI require items to be received at $4^{\circ}\text{C} \pm 2^{\circ}\text{C}$



Fremont
ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 5/28/19 Page: 1 of 1

Project Name: AMERICAN LIVEN

Project No: 1413.001.05.402

Collected by: RTM/KST

Location: 700 Dexter Ave N, SEA, WA

Report To (PM): B. O'NEAL

PM Email: BOONEAL@RESERVU.COM, KST@RESERVU.COM, KSPRUDAS@RESERVU.COM

Laboratory Project No (Internal): 1905381

Special Remarks:

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: RES ENVIRONMENTAL INC

Address: 1215 4th Ave, Ste 1350

City, State, Zip: Seattle, WA 98161

Telephone: 206-529-3980

Fax: 206-529-3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (IC)**	EDB (8011)	Comments	
1 05-B1-33	5/23/19	1300	S	X														
2 05-SW4-36		1304	X															
3 05-B2-31.5		1308	X															
4 05-SW4-33.5		1315	X															
5 05-SW5-37		1320	X															
6 TB-052219		1526	X	X														
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sp Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate-Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished Date/Time 5/28/19 1410

Relinquished Date/Time 5/28/19 1410

Relinquished Date/Time 5/28/19 1410

Relinquished Date/Time 5/28/19 1410

Turn-around Time:

☐ Standard ASAP

☐ 3 Day WED AM

☐ 2 Day (5/29)

☐ Next Day

☐ Same Day (specify)



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen
Work Order Number: 1905421

May 31, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 1 sample(s) on 5/30/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)
Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

CC:
Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1905421

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1905421-001	OS-33-108-32	05/30/2019 1:30 PM	05/30/2019 3:42 PM

CLIENT: PES Environmental, Inc.**Project:** American Linen

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Client: PES Environmental, Inc.

Collection Date: 5/30/2019 1:30:00 PM

Project: American Linen

Lab ID: 1905421-001

Matrix: Soil

Client Sample ID: OS-33-108-32

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24769

Analyst: KT

Vinyl chloride	ND	2.27	DQ	mg/Kg-dry	100	5/31/2019 9:42:55 AM
cis-1,2-Dichloroethene	2.26	1.82	D	mg/Kg-dry	100	5/31/2019 9:42:55 AM
Trichloroethene (TCE)	2.88	1.82	D	mg/Kg-dry	100	5/31/2019 9:42:55 AM
Tetrachloroethene (PCE)	4,260	114	D	mg/Kg-dry	5000	5/31/2019 11:25:49 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	100	5/31/2019 9:42:55 AM
Surr: Toluene-d8	105	64.5 - 151	D	%Rec	100	5/31/2019 9:42:55 AM
Surr: 1-Bromo-4-fluorobenzene	104	54.8 - 168	D	%Rec	100	5/31/2019 9:42:55 AM

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample Moisture (Percent Moisture)

Batch ID: R51815

Analyst: PA

Percent Moisture	11.9	0.500		wt%	1	5/31/2019 9:19:06 AM
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Work Order: 1905421
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	LCS-24769	SampType:	LCS	Units:	mg/Kg	Prep Date:	5/31/2019	RunNo:	51823		
Client ID:	LCSS	Batch ID:	24769			Analysis Date:	5/31/2019	SeqNo:	1022469		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.721	0.0250	1.000	0	72.1	43.4	151				
cis-1,2-Dichloroethene	0.890	0.0200	1.000	0	89.0	71.3	135				
Trichloroethene (TCE)	0.909	0.0200	1.000	0	90.9	65.5	137				
Tetrachloroethene (PCE)	0.876	0.0250	1.000	0	87.6	52.7	150				
Surr: Dibromofluoromethane	1.33		1.250		106	56.5	129				
Surr: Toluene-d8	1.34		1.250		107	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	54.8	168				

Sample ID	LCSD-24769	SampType:	LCSD	Units:	mg/Kg	Prep Date:	5/31/2019	RunNo:	51823		
Client ID:	LCSS02	Batch ID:	24769			Analysis Date:	5/31/2019	SeqNo:	1022470		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.729	0.0250	1.000	0	72.9	43.4	151	0.7211	1.06	20	
cis-1,2-Dichloroethene	0.885	0.0200	1.000	0	88.5	71.6	123	0.8905	0.576	20	
Trichloroethene (TCE)	0.891	0.0200	1.000	0	89.1	65.5	137	0.9093	2.02	20	
Tetrachloroethene (PCE)	0.885	0.0250	1.000	0	88.5	52.7	150	0.8761	1.05	20	
Surr: Dibromofluoromethane	1.32		1.250		105	56.5	129		0		
Surr: Toluene-d8	1.33		1.250		106	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168		0		

Sample ID	MB-24769	SampType:	MBLK		Units:	mg/Kg		Prep Date:	5/31/2019		RunNo:	51823	
Client ID:	MBLKS	Batch ID:	24769					Analysis Date:	5/31/2019		SeqNo:	1022471	
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Vinyl chloride		ND	0.0250										Q
cis-1,2-Dichloroethene		ND	0.0200										
Trichloroethene (TCE)		ND	0.0200										
Tetrachloroethene (PCE)		ND	0.0250										
Surr: Dibromofluoromethane		1.27		1.250		101	56.5	129					
Surr: Toluene-d8		1.31		1.250		105	64.5	151					

Work Order: 1905421
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID	MB-24769	SampType:	MBLK	Units:	mg/Kg	Prep Date:	5/31/2019	RunNo:	51823		
Client ID:	MBLKS	Batch ID:	24769			Analysis Date:	5/31/2019	SeqNo:	1022471		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.0	54.8	168				

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID	1905421-001BDUP	SampType:	DUP		Units:	mg/Kg-dry		Prep Date:	5/31/2019		RunNo:	51823
Client ID:	OS-33-108-32	Batch ID:	24769					Analysis Date:	5/31/2019		SeqNo:	1022466
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Vinyl chloride	ND	114						0	0	30	DQ	
cis-1,2-Dichloroethene	ND	91.0						0	0	30	D	
Trichloroethene (TCE)	ND	91.0						0	0	30	D	
Tetrachloroethene (PCE)	4,140	114						4,261	2.99	30	D	
Surr: Dibromofluoromethane	5,740		5,685		101	56.5	129		0		D	
Surr: Toluene-d8	5,960		5,685		105	64.5	151		0		D	
Surr: 1-Bromo-4-fluorobenzene	5,750		5,685		101	54.8	168		0		D	

NOTES:

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Client Name: **PES**

 Work Order Number: **1905421**

 Logged by: **Clare Griggs**

 Date Received: **5/30/2019 3:42:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☐ No ☒ NA ☐

Sample received straight from field.

4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
7. Were all items received at a temperature of >0°C to 10.0°C * Yes ☐ No ☐ NA ☒
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

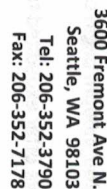
18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Chain of Custody Record & Laboratory Services Agreement

Laboratory Project No (internal):

Special Remarks

1905424

Client: PES ENVIRONMENTAL

Address: 1215 4th Ave Ste 1350

City, State, zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Project No: 1413.001.05.402

Collected by: R. McLAUGHLIN/K. ZYGAS

location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@PESTENV.COM

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

24 hr TAT EOD

5/31/19

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

****Metals (Circle):**

MTCA-5	RCRA-8	Priority Pollutants	TAL
Individual:			
Ag	Al	As	Ba
Be	Ca	Cd	Co
Cr	Cu	Fe	Hg
K	Mg	Mn	Mo
Na	Ni	Pb	Sb
Se	Sr	Sn	Tl
U	V	Zn	

[illegible]

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Turn-around Time:

☐ Standard☐ 3 Day☐ 2 Day☒ Next Day

Same Day

(spe)

COC 1.2 - 2.22.17

www.fremontanalytical.com



Fremont
Analytical

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info@fremontanalytical.com

PES Environmental, Inc.

Brian O'Neal
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: American Linen

Work Order Number: 1906070

June 07, 2019

Attention Brian O'Neal:

Fremont Analytical, Inc. received 1 sample(s) on 6/6/2019 for the analyses presented in the following report.

Sample Moisture (Percent Moisture)

Volatile Organic Compounds by EPA Method 8260C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

CC:

Karsten Springstead
Kim Vik

CLIENT: PES Environmental, Inc.
Project: American Linen
Work Order: 1906070

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906070-001	05-31-108-30.5	06/06/2019 2:13 PM	06/06/2019 3:24 PM

CLIENT: PES Environmental, Inc.
Project: American Linen

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 1906070
Date Reported: 6/7/2019

Client: PES Environmental, Inc.

Collection Date: 6/6/2019 2:13:00 PM

Project: American Linen

Lab ID: 1906070-001

Matrix: Soil

Client Sample ID: 05-31-108-30.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Volatile Organic Compounds by EPA Method 8260C

Batch ID: 24838

Analyst: KT

Vinyl chloride	ND	0.278	D	mg/Kg-dry	10	6/7/2019 12:57:24 PM
cis-1,2-Dichloroethene	0.122	0.222	DJ	mg/Kg-dry	10	6/7/2019 12:57:24 PM
Trichloroethene (TCE)	0.367	0.222	D	mg/Kg-dry	10	6/7/2019 12:57:24 PM
Tetrachloroethene (PCE)	0.741	0.278	D	mg/Kg-dry	10	6/7/2019 12:57:24 PM
Surr: Dibromofluoromethane	95.4	56.5 - 129	D	%Rec	10	6/7/2019 12:57:24 PM
Surr: Toluene-d8	97.3	64.5 - 151	D	%Rec	10	6/7/2019 12:57:24 PM
Surr: 1-Bromo-4-fluorobenzene	98.9	54.8 - 168	D	%Rec	10	6/7/2019 12:57:24 PM

Sample Moisture (Percent Moisture)

Batch ID: R51904

Analyst: PA

Percent Moisture	17.9	0.500		wt%	1	6/6/2019 4:00:00 PM
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Work Order: 1906070
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID: LCS-24838	SampType: LCS	Units: mg/Kg				Prep Date: 6/7/2019			RunNo: 51940		
Client ID: LCSS	Batch ID: 24838	Analysis Date: 6/7/2019							SeqNo: 1024990		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.993	0.0250	1.000	0	99.3	43.4	151				
cis-1,2-Dichloroethene	0.985	0.0200	1.000	0	98.5	71.3	135				
Trichloroethene (TCE)	0.971	0.0200	1.000	0	97.1	65.5	137				
Tetrachloroethene (PCE)	1.02	0.0250	1.000	0	102	52.7	150				
Surr: Dibromofluoromethane	1.27		1.250		102	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.6	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168				

Sample ID: LCSD-24838	SampType: LCSD	Units: mg/Kg				Prep Date: 6/7/2019			RunNo: 51940		
Client ID: LCSS02	Batch ID: 24838	Analysis Date: 6/7/2019							SeqNo: 1024991		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.971	0.0250	1.000	0	97.1	43.4	151	0.9930	2.21	20	
cis-1,2-Dichloroethene	0.982	0.0200	1.000	0	98.2	71.6	123	0.9849	0.333	20	
Trichloroethene (TCE)	0.978	0.0200	1.000	0	97.8	65.5	137	0.9711	0.704	20	
Tetrachloroethene (PCE)	0.980	0.0250	1.000	0	98.0	52.7	150	1.023	4.31	20	
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129		0		
Surr: Toluene-d8	1.23		1.250		98.0	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		103	54.8	168		0		

Sample ID: MB-24838	SampType: MBLK	Units: mg/Kg				Prep Date: 6/7/2019			RunNo: 51940		
Client ID: MBLKS	Batch ID: 24838					Analysis Date: 6/7/2019			SeqNo: 1024992		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0250									
cis-1,2-Dichloroethene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
Tetrachloroethene (PCE)	ND	0.0250									
Surr: Dibromofluoromethane	1.19		1.250		95.6	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.3	64.5	151				

Work Order: 1906070
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method 8260C

Sample ID: MB-24838		SampType: MBLK			Units: mg/Kg		Prep Date: 6/7/2019			RunNo: 51940		
Client ID: MBLKS		Batch ID: 24838			Analysis Date: 6/7/2019					SeqNo: 1024992		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.1	54.8	168				
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Sample ID: 1906070-001BDUP		SampType: DUP			Units: mg/Kg-dry		Prep Date: 6/7/2019			RunNo: 51940		
Client ID: 05-31-108-30.5		Batch ID: 24838			Analysis Date: 6/7/2019			SeqNo: 1024987				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	

Vinyl chloride	ND	0.278						0	0	30	D
cis-1,2-Dichloroethene	0.112	0.222						0.1216	7.98	30	DJ
Trichloroethene (TCE)	0.361	0.222						0.3670	1.58	30	D
Tetrachloroethene (PCE)	0.733	0.278						0.7409	1.12	30	D
Surr: Dibromofluoromethane	13.3		13.89		95.6	56.5	129		0		D
Surr: Toluene-d8	13.3		13.89		95.8	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.7		13.89		98.6	54.8	168		0		D



Work Order: 1906070
CLIENT: PES Environmental, Inc.
Project: American Linen

QC SUMMARY REPORT

Sample Moisture (Percent Moisture)

Sample ID: 1906059-002ADUP		SampType: DUP			Units: wt%		Prep Date: 6/6/2019			RunNo: 51904		
Client ID: BATCH		Batch ID: R51904			Analysis Date: 6/6/2019				SeqNo: 1024491			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	12.6	0.500						12.00	4.62	20		

Sample ID: 1906034-008ADUP		SampType: DUP			Units: wt%		Prep Date: 6/6/2019			RunNo: 51904		
Client ID: BATCH		Batch ID: R51904			Analysis Date: 6/6/2019			SeqNo: 1024499				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Percent Moisture	14.3	0.500						15.86	10.0	20		

Client Name: **PES**

Work Order Number: **1906070**

Logged by: **Clare Griggs**

Date Received: **6/6/2019 3:24:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☐ No ☒ NA ☐

Sample received straight from field.

4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Required ☒
6. Was an attempt made to cool the samples? Yes ☐ No ☐ NA ☒
7. Were all items received at a temperature of $>0^{\circ}\text{C}$ to 10.0°C * Yes ☐ No ☐ NA ☒
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	10.9

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Fremont

ANALYTICAL

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 6/6/19 Page: 1 of 1

Project Name: AMERICAN CINC

Project No: 1413.001.05.402

Collected by: R. MATHAUGHAN

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BOVEAL@FREMONTANALYTICAL.COM

Laboratory Project No (Internal): 1906070

Special Remarks:

24 HR TAT

Sample Disposal: ☐ Return to client ☐ Disposal by lab (after 30 days)

Client: PES ENVIRONMENTAL

Address: 1215 4th AVE STE 1350

City, State, Zip: SEATTLE WA 98161

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 OS-31-108-30.5	6/6/19	1413	S X														
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

R. M. Quast Jr.

6/6/19

R. MATHAUGHAN
6/6/19

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished 6/6/19 1524 Date/Time

Received 6/6/19 1524 Date/Time

Relinquished 6/6/19 1524 Date/Time

Turn-around Time:

☐ Standard

☐ 3 Day

☐ 2 Day

☒ Next Day

Same Day (specify)