

**APPENDIX E**

**IN-SITU SOIL TREATMENT DOCUMENTATION (PROVIDED ON A USB FLASH  
DRIVE)**

**From:** [Maeng, Byung \(ECY\)](#)  
**To:** [Brian O'Neal](#)  
**Cc:** [Daniel Balbiani](#); [Drew Graham](#); [John Moshy](#); [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#)  
**Subject:** RE: Former American Linen Supply Company - Request for Increase in Contained-In Soil Quantity  
**Date:** Wednesday, October 2, 2019 2:21:27 PM

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Brian,

Thanks for submitting an additional information I requested this morning.

Based on the information in your October 1, 2019 letter and submitted this morning, I believe that soil excavated from the additional depths meets the contained-in determination criteria. Therefore, the quantity of soil managed under the March 18, 2019 contained-in determination will be increased to 142,700 tons from the originally approved 127,100 tons.

If you have any questions on this approval, please call or email me.

Thanks,

Byung

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

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

**Sent:** Tuesday, October 1, 2019 11:28 AM

**To:** Maeng, Byung (ECY) <[BMAE461@ECY.WA.GOV](mailto:BMAE461@ECY.WA.GOV)>

**Cc:** Daniel Balbiani <[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)>; Drew Graham <[dgraham@oacsvcs.com](mailto:dgraham@oacsvcs.com)>; John Moshy <[john.moshy@biomedrealty.com](mailto:john.moshy@biomedrealty.com)>; Cardona-Marek, Tamara (ECY) <[TACA461@ECY.WA.GOV](mailto:TACA461@ECY.WA.GOV)>; Timm, Ronald W. (ECY) <[rtim461@ECY.WA.GOV](mailto:rtim461@ECY.WA.GOV)>

**Subject:** Former American Linen Supply Company - Request for Increase in Contained-In Soil Quantity

Byung –

Per my phone message to you last Friday, find attached a brief letter requesting an increase in the total quantity of soil that can be managed under the March 18, 2019 Contained-In Determination for the Former American Linen Supply Company interim action.

Let me know if you have any questions or need additional information.

**Brian O'Neal, P.E.**

**PES Environmental, Inc.**

ph: 206-529-3980 x104

cell: 425-241-2627

**From:** [Brian O'Neal](#)  
**To:** [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](mailto:Byung.Maeng@ECY.WA.GOV)  
**Cc:** [Daniel Balbiani](#); [Drew Graham](#); [John Moshy](#); [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#)  
**Subject:** Former American Linen Supply Company - Request for Increase in Contained-In Soil Quantity  
**Date:** Tuesday, October 1, 2019 11:27:00 AM  
**Attachments:** [S141300105L\\_2732.pdf](#)

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Byung –

Per my phone message to you last Friday, find attached a brief letter requesting an increase in the total quantity of soil that can be managed under the March 18, 2019 Contained-In Determination for the Former American Linen Supply Company interim action.

Let me know if you have any questions or need additional information.

**Brian O'Neal, P.E.**

**PES Environmental, Inc.**

ph: 206-529-3980 x104

cell: 425-241-2627



October 1, 2019

**1413.001.05**

Mr. Byung Maeng  
Washington Department of Ecology  
3190 160th Avenue S.E.  
Bellevue, Washington 98008-5452

**Request for Increase in Total Soil Quantity Related to  
Contained-In Policy Determination for Shoring System Installation  
and Excavation Activities American Linen Supply Co. – Dexter Ave Site  
700 Dexter Avenue North, Seattle, Washington  
Facility/Site ID No. 3573/Cleanup Site ID No. 12004  
EPA Identification No. WAH000040735  
Agreed Order No. DE 14302**

Dear Mr. Maeng:

PES Environmental, Inc. (PES) has prepared this letter on behalf of BMR-Dexter LLC (“BMRD”), to request an increase in the total quantity of soil permitted to be disposed of pursuant to your March 18, 2019 contained-in policy determination<sup>1</sup> for contaminated soil that will be generated during the implementation of interim cleanup actions and property redevelopment at the American Linen Supply Co – Dexter Ave Site, located at 700 Dexter Avenue North, Seattle, Washington. These cleanup activities are associated with the ongoing implementation of the Final Interim Action Work Plan (“IAWP”)<sup>2</sup> prepared in accordance with the requirements of Agreed Order No. DE 14302 (“AO”) between the State of Washington Department of Ecology (“Ecology”) and BMRD. In addition to the IAWP, specific procedures for managing contaminated soil are described in the Final Draft Contaminated Media Management Plan (“CMMP”) dated March 12, 2019<sup>3</sup>. Ecology’s Site manager for this project is Ms. Tamara Cardona.

Consistent with the IAWP and the Washington Model Toxics Control Act (“MTCA”, Chapter 173-340 Washington Administrative Code [“WAC”]), the word “Site” will refer to any area where contamination released at the property located at 700 Dexter Avenue North has come to be located. The word “Property” will refer to the area within the 700 Dexter Avenue North property boundary further described below.

The March 18, 2019 contained-in policy determination provided for the disposal of approximately 127,100 tons of soil. The on-Property construction and associated cleanup activities have been proceeding consistent with the approved plans since late March, including installation of the shoring systems, demolition of site structures, mass excavation of soil, and treatment of select areas of soil

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<sup>1</sup> State of Washington, Department of Ecology. 1993. Memorandum from Tom Eaton to all Hazardous Waste Staff, *Subject: Contained-In Policy*. February 19.

<sup>2</sup> PES Environmental, Inc. 2018. *Final Interim Action Work Plan, American Linen Supply Co-Dexter Avenue Site, 700 Dexter Avenue North, Seattle, Washington*. August.

<sup>3</sup> Once Ecology has completed their review of the Final Draft CMMP, and PES has finalized the document, the Final CMMP will be incorporated into this request by reference.

October 1, 2019

Page 2

to below the applicable contained-in criteria. As these excavation-related activities have proceeded, it has become apparent that the total amount of soil that will be generated will be greater than the initial estimate of 127,100. Based on the recent survey of the excavation, it appears that a total of approximately 142,700 tons of soil will be excavated. This increase is attributable to the following factors:

- Change in the foundation design requiring additional excavation of approximately 3,100 tons of soil. These changes included inclusion of tower crane bases, additional storm drain sumps, utility trenching, and increased footing thicknesses in select areas;
- Inclusion of soil generated during installation of lagging during shoring system construction. The original estimate included the volume of soil generated during installation of the soldier piles used to support the shoring, but did not include the volume of soil that needed to be removed between the piles to install the lagging, and the soil removed behind the lagging that was subsequently backfilled with cement grout. Altogether, the soil removed to install the lagging generated another approximately 3,800 tons of soil;
- Inclusion of approximately 660 tons of soil from the “overexcavation areas” described in the CMMP. As shown on Figure 4 of the CMMP, there are four areas that were excavated down to elevation 5 feet, and this quantity of soil was not included in the initial estimate;
- Higher soil density than originally estimated. Due to a combination of the very dense nature of the site soils and an increase in moisture content due to rainfall, it appears that the assumed density used to calculate the initial estimate of total tonnage of soil was low by approximately 6 percent. This increased density was determined using the estimated volume of soil excavated through mid-September and the weight for this volume reported by the disposal facilities. Applying this increased density to the 134,660 tons of soil that will be removed during the excavation (the original 127,100 tons plus the additional 7,560 tons of soil listed above), the revised total is approximately 142,700 tons.

The analytical data included in our March 5, 2019 request for a contained-in policy determination and the Final CMMP are representative of the additional soil described above, and this soil will be managed in accordance with the Final CMMP. Based on the above information, PES requests that Ecology increase the allowable maximum quantity of soil managed consistent with the March 18, 2019 contained-in policy determination to 142,700 tons.

If you have any questions regarding this letter please do not hesitate to call me at (206) 529-3980. Thank you for assistance in this matter and I look forward to your response.

Sincerely,

**PES ENVIRONMENTAL, INC.**



Brian O’Neal, P.E.  
Principal Engineer

Enclosures:

cc: Mr. John Moshy, BMR-Dexter LLC  
Tamara Cardona, Washington State Department of Ecology



March 5, 2019

**1413.001.05**

Mr. Byung Maeng  
Washington Department of Ecology  
3190 160th Avenue S.E.  
Bellevue, Washington 98008-5452

**Request for Contained-In Policy Determination for Shoring System Installation and Excavation Activities – American Linen Supply Co. – Dexter Ave Site  
700 Dexter Avenue North, Seattle, Washington  
Facility/Site ID No. 3573/cleanup site id No. 12004  
EPA Identification No. WAH000040735  
Agreed Order No. DE 14302**

Dear Mr. Maeng:

PES Environmental, Inc. (PES) has prepared this letter on behalf of BMR-Dexter LLC (“BMRD”), to request a contained-in policy determination<sup>1</sup> for approximately 127,100 tons of contaminated soil that will be generated during the continued implementation of interim cleanup actions and property redevelopment at the American Linen Supply Co – Dexter Ave Site located at 700 Dexter Avenue North, Seattle, Washington (Figure 1). The planned activities are associated with the ongoing implementation of the Final Interim Action Work Plan (“IAWP”)<sup>2</sup> that was prepared in accordance with the requirements of Agreed Order No. DE 14302 (“AO”) between the State of Washington Department of Ecology (“Ecology”) and BMRD. In addition to the IAWP, specific procedures for managing contaminated soil are described in the Final Draft Contaminated Media Management Plan (“CMMP”) submitted to Ecology for review on February 21, 2019<sup>3</sup>. Ecology’s Site manager for this project is Ms. Tamara Cardona. During a meeting on February 20, 2019, we discussed with you the approach for managing the soil, including how we will collect additional data to support disposal decisions.

Consistent with the IAWP and the Washington Model Toxics Control Act (“MTCA”, Chapter 173-340 Washington Administrative Code (“WAC”)), the word “Site” will refer to an area where contamination released at the property located at 700 Dexter Avenue North has come to be located. The word “Property” will refer to the area within the 700 Dexter Avenue North property boundary further described below (Figure 1).

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<sup>1</sup> State of Washington, Department of Ecology. 1993. Memorandum from Tom Eaton to all Hazardous Waste Staff, *Subject: Contained-In Policy*. February 19.

<sup>2</sup> PES Environmental, Inc. 2018. *Final Interim Action Work Plan, American Linen Supply Co-Dexter Avenue Site, 700 Dexter Avenue North, Seattle, Washington*. August.

<sup>3</sup> Once Ecology has completed their review of the Final Draft CMMP, and PES has finalized the document, the Final CMMP will be incorporated into this request by reference.

## BACKGROUND AND RELEASE INFORMATION

Section 2 of the IAWP provides detailed background and historical information related to the Site. Briefly, the rectangular-shaped Property consists of one tax parcel (King County Assessor Parcel Number 224900-0285). Dexter Avenue North borders the Property to the west, Valley Street borders the Property to the north, 8<sup>th</sup> Avenue North borders the Property to the east, and Roy Street borders the Property to the south. No buildings are currently present at the Property. The Property is almost entirely covered by concrete or asphalt, with small patches of vegetation or exposed soil.

Commercial and industrial activities first occurred on the Property in approximately 1925. Refueling, vehicle parking, and automotive repair activities occurred from 1930 until at least 1966. Beginning in 1966, industrial dry cleaning operations began on the Property and continued until approximately 1990. Reportedly, the dry cleaning machines leaked solvents into the subsurface. By 1990, the dry cleaning machines had been removed. In the mid-1990s, commercial laundry operations ceased. The buildings were subsequently leased to various tenants, including several automotive repair shops, a bakery, and a car rental office. The on-Property buildings were demolished between January 14 and March 8, 2013.

## INTERIM ACTION IMPLEMENTATION AND REDEVELOPMENT ACTIVITIES

The interim actions described in the IAWP are integrated into the Property redevelopment (two 14-story office towers over three levels of subgrade parking), and are being performed prior to, during, and after the redevelopment construction.

### Interim Action Summary

IAWP Sections 10 and 11 describe the interim action BMRD is implementing at the Property. Specific interim actions include:

- Implementing a series of three *in situ* chemical oxidation (“ISCO”) injections using modified Fentons reagent (“MFR”) in 157 injection wells located on the Property. We completed the ISCO injections between October 2018 and January 2019;
- Conducting one round of injection of emulsified vegetable oil (“EVO”) after the ISCO injections are completed. We completed the EVO injections on March 3, 2019;
- Excavating contaminated soil throughout the Property down to elevations 10.7 to 0.7 feet, including installing and operating a dewatering system throughout the excavation and garage construction process (see detailed description in the CMMP for more details);
- Installing 63 injection wells and 24 monitoring wells beneath the proposed building as described in the Final Contingent Action Addendum (“CAA”) that Ecology approved on March 4, 2019; and
- Conducting an initial round of EVO injections after dewatering is completed using the perimeter injection wells.

In addition to these cleanup actions, we will conduct performance monitoring consistent with IAWP Section 11.

### **Redevelopment Activities**

BMRD is conducting two interim action components concurrently with redeveloping the Property: (1) soil excavation (including shoring installation and dewatering) and (2) installing the CAA wells. The Property is scheduled to be redeveloped with initial construction activities beginning in late March 2019. The redevelopment design calls for three levels of underground parking (below the elevation of 8<sup>th</sup> Avenue), on-street retail, and two adjacent 14-story office towers. The parking garage and foundations will require excavations to extend to elevations ranging from 10.7 to 0.7 feet across the entire Property. Figure 1 depicts the foundation plan for the bottom floor of the parking garage and shows the excavation elevations beneath the parking garage floor slab.

Constructing the underground parking garage will require BMRD to install temporary shoring around the Property's perimeter. Shoring for the excavation consists of soldier piles with wood lagging and a combination of tie backs and soil nails to provide additional support. Figure 1 shows the soldier pile locations.

The project will require dewatering to construct the parking garage. Dewatering will continue until the foundation and parking garage structure are completed to above the adjacent ground surface. The groundwater dewatering system will consist of four vertical extraction wells installed in each quadrant of the Property and a vacuum wellpoint system installed around the Property perimeter through the shoring walls. The four groundwater extraction wells will be 12-inch diameter PVC wells installed to a depth equal to approximately elevation 0 feet. The wellpoint system will be installed once the excavation floor has reached approximately elevation 20 feet. Vacuum well points will consist of 1.5- to 2.0-inch diameter PVC wells that will be installed at intervals of approximately 8 feet through the shoring walls at an angle of 20 to 30 degrees to an elevation of approximately 0 ft. As described in detail in CMMP Section 4, the wellpoints will be connected to a vacuum pump through a header pipe, and the collected water will be conveyed to a water treatment system prior to being discharged to either the sanitary sewer or storm sewer, as permitted. The dewatering water treatment train system consists of a 6,900-gallon poly surge tank, air stripper to volatilize chlorinated volatile organic compounds ("CVOCs"), and liquid phase granular activated carbon ("GAC") adsorption vessels as a final polishing step. CVOC vapors from the air stripper will be collected and treated using vapor phase GAC followed by potassium permanganate impregnated zeolite (to treat vinyl chloride) before discharge to air.

BMRD will initially discharge treated water to the King County Industrial Waste Program ("KCIW") combined sewer system pursuant to Major Discharge Authorization Number 4482-01 that KCIW issued to BMRD on January 4, 2019. In October 2018, BMRD filed a Notice of Intent ("NOI") application (Application ID 20262) for coverage under Ecology's Construction Stormwater General Permit ("CSWGP") seeking approval to discharge treated dewatering water to surface water, specifically Lake Union. Ecology granted BMRD coverage under the CSWGP on March 1, 2019 and issued permit WAR307169. Ecology also issued Administrative Order No. 16204 dated February 21, 2019 that provides requirements that must be met before water can be discharged to Lake Union.

## EXISTING SOIL CONDITIONS

This section summarizes existing soil conditions based on information presented in the IAWP and the CMMP. The contaminants of concern present in soil at the Property are CVOCs including tetrachlorethene (“PCE”), trichloroethene (“TCE”), cis-1,2-dichloroethene (“cDCE”), trans-1,2-dichloroethene (“tDCE”), and vinyl chloride (“VC”), and petroleum hydrocarbons including gasoline range organics (“GRO”), and benzene, ethylbenzene, toluene, and xylenes (collectively “BTEX”). Petroleum hydrocarbons are not as widely distributed at the Property as CVOCs, and the extent of petroleum hydrocarbons was included within the limits of the CVOCs. Therefore, the distribution of CVOCs in soil is inclusive of petroleum hydrocarbons. As described in the IAWP and CMMP, CVOCs are present in soil at concentrations above screening levels across the majority of the Property and will be encountered during the excavation. In addition, CVOCs are present in detectable concentrations that are below the screening levels in some areas, which will require the soil to be properly managed as contaminated.

Under the previous investigations summarized in the IAWP and CMMP, BMRD has collected and analyzed 1,027 soil samples on and adjacent to the Property (from the borings and wells shown on Figure 2), including 583 samples collected from at or above elevation 0 feet.<sup>4</sup> The samples collected from above elevation 0 feet characterize the distribution of CVOCs within soils that will be encountered during construction, including all soils to be removed during the mass excavation. Table 1 summarizes the PCE, TCE, cDCE, tDCE, VC, and petroleum hydrocarbon analytical results for soil samples collected above elevation 0 feet.

## WASTE CHARACTERIZATION AND SOIL MANAGEMENT

In general, the vast majority of the 127,100 tons of soil contains CVOCs at concentrations that are already below the applicable contained-in criteria (defined below), while the remaining soil will either require additional treatment prior to excavation and disposal or, in certain cases, soil may be disposed of as a dangerous waste. The soil management approach is summarized below and described in detail in Section 3 of the CMMP.

### Waste Designation

Based on source (former dry cleaning operations), the CVOCs at and adjacent to the Property meet the definition of listed dangerous waste F002 (i.e., spent halogenated solvent). Soil containing these CVOCs is considered to contain F002-listed dangerous waste unless Ecology issues a “contained-in policy” determination indicating that the contaminated soil can be managed as a solid waste because it no longer contains the dangerous waste. Ecology issues its determination based on the contaminant concentrations and how the contaminated soil will be disposed of once the determination has been provided.

As shown in Table 1, a portion of the soils on the Property contain petroleum hydrocarbons and related compounds (e.g., BTEX) in addition to CVOCs. The concentrations of the petroleum hydrocarbons and related compounds in soils on the Property are such that they would require management as a solid waste at an approved facility. As described below, the presence of

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<sup>4</sup> For purposes of evaluating the construction activities, all data at or above elevation 0 feet was considered, which encompasses all data within and immediately below the planned minimum excavation elevation of 0.7 feet.

CVOCs requires, at a minimum, management of the soil as a solid waste. Therefore, the CVOC concentrations will govern soil management and disposal, ensuring that petroleum-related soil contamination, where present on the Property, will also be managed appropriately.

Soil containing contaminant concentrations less than the MTCA Method B standard soil formula cleanup values for direct contact or the Toxicity Characteristic criteria, whichever is lower (more conservative), may be granted a “contained-in policy” determination, allowing the soil to be managed as a solid waste. The Toxicity Characteristic (“TC”) Criteria listed in WAC 173-303-090 are summarized in the regulation for evaluating dangerous waste concentrations using the Toxicity Characteristic Leaching Procedure (“TCLP”). The “rule of 20” was applied to these values to obtain the TC Criteria for contaminants concentrations based in milligrams per kilogram (mg/kg).

The following is a summary of the Contained-In criteria for CVOCs (lower of MTCA Method B or TC Criteria x 20) that have been detected on the Property:

PCE:	14 mg/kg (TC Criteria-based)
TCE:	10 mg/kg (TC Criteria-based)
cis-1,2-DCE:	160 mg/kg (MTCA Method B-based)
vinyl chloride:	0.67 mg/kg (MTCA Method B-based)

Pursuant to WAC 173-303-100, PES has evaluated the waste to determine whether it meets the criteria for designation as a toxic dangerous waste and/or persistent dangerous waste. This evaluation confirmed that the waste does not designate as a toxic dangerous waste nor a persistent dangerous. Finally, the concentrations are also below the Universal Treatment Standards (UTS) obtained from 40 CFR 268.48 and multiplied by 10 per 40 CFR 268.49.

### **Soil Management Areas**

Section 3.3 of the CMMP defines four soil management areas (“SMAs”) that together encompass the 127,100 tons of soil to be excavated from the Property. The approach for managing the soils from these SMAs is as follows.

#### **Soil Management Area 1**

SMA-1 is defined as the entire Property from existing ground surface to the maximum depth of the excavation (elevation 0.7 feet), except for the soils within SMAs 2, 3, and 4 (see Figure 2), which we further address below. SMA-1 also includes soil removed during the installation of the shoring system (i.e., soldier piles, tiebacks, and soil nails) and the dewatering wells. Based on the data in Table 1 from the borings and wells shown in Figure 2, CVOC concentrations throughout SMA-1 are below the applicable contained-in criteria (e.g., PCE concentrations less than 14 mg/kg), and soils from this area will be managed as contained-in soil.

Possible exceptions where CVOC concentrations may exceed contained-in criteria are soils associated with select soldier piles, tiebacks, and dewatering wells (discussed in detail in CMMP Sections 3.4.1 and 3.4.2). Specific locations include a section along the west property line between soldier piles W3 and W14, and a segment along the eastern property line between soldier piles E17 and E22, and E28 and E31. In these limited shoring areas, soil samples will be

collected as it is generated during the soldier pile drilling and analyzed to determine the concentrations of CVOCs. Pending receipt of the analytical results, the soil will be stored in a lined and covered stockpile. If testing data confirms that CVOC concentrations are below the contained-in criteria, the data will be submitted to Ecology for review and approval prior to disposing the soil as contained-in. If concentrations of CVOCs exceed in the contained-in criteria the soil will be disposed as a dangerous waste and Ecology will be notified.

#### **Soil Management Areas 2, 3, and 4**

These three soil management areas contain the only soil identified on the Property within the planned excavation limits with CVOC concentrations exceeding the contained-in criteria (e.g., PCE concentrations above 14 mg/kg). Within each of these three areas, the soils anticipated to exceed the contained-in criteria are shown in CMMP Figures 5a and 5b (SMA-2), 6a and 6b (SMA-3), and 7a and 7b (SMA-4). As described in detail in CMMP Sections 3.4.3 and 3.5, the general approach for managing soil within these three areas will be to:

- Remove and dispose soil meeting the contained-in criteria until soil exceeding the contained-in criteria is encountered;
- Treat the soil exceeding the contained-in criteria *in situ* with sodium permanganate until CVOC concentrations are below the contained-in criteria as demonstrated by laboratory sampling results; and
- Remove and dispose the treated soil and adjacent soil meeting contained-in criteria.

For the soil that requires additional treatment, verification samples will be collected per the procedures outlined in the CMMP. If the verification sample laboratory results indicate the treated soil contains PCE at concentrations exceeding 14 mg/kg, the soil will be re-treated, and additional verification samples analyzed. If, however, the verification sample laboratory results indicate the treated soil contains PCE at concentrations less than 14 mg/kg, the soil will be removed from the *in situ* treatment zone and stockpiled in a nearby location pending disposal approval from Ecology. The analytical results will be submitted to Ecology as an addendum to the contained-in determination, which will include a request for approval to dispose of the treated layer as contained-in soil. Once Ecology approves the soil for disposal as contained-in, the treated soil will be removed and disposed of with the other contained-in soil.

PES requests that Ecology provide a “contained-in policy” determination that 127,100 tons can be managed as “contained-out” and non-hazardous for disposal at BMRD’s discretion at either Republic Service’s Roosevelt Regional Solid Waste Landfill in Klickitat County, Washington and/or Waste Management’s solid waste landfill in Wenatchee, Washington (both are Subtitle D MSW permitted facilities). BMRD will have the soil managed as “contained-out” transported in lined containers directly from the Property to one of the designated landfills.

**Contact Information:**

Property Owner: BMR-Dexter LLC  
Attention: Mr. John Moshy  
17190 Bernardo Center Drive  
San Diego, California 92128  
  
Phone: (858) 829-7709  
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Waste Management: Matt Essig  
720 4th Ave. Suite 400  
Kirkland, WA 98033  
  
Phone: (206) 437-9460  
Email: [messig@wm.com](mailto:messig@wm.com)

If you have any questions regarding this letter please do not hesitate to call me at (206) 529-3980. Thank you for assistance in this matter and I look forward to your response.

Sincerely,

**PES ENVIRONMENTAL, INC.**



Brian O'Neal, P.E.  
Associate Engineer

Enclosures:

Table 1 – Soil Analytical Results for Petroleum Hydrocarbons and Chlorinated VOCs  
Figure 1 – Site Plan and Excavation Limits  
Figure 2 – Soil Management Areas  
Laboratory Analytical Reports (on disc)

cc: Mr. John Moshy, BMR-Dexter LLC  
Tamara Cardona, Washington State Department of Ecology



Table 1

**Soil Analytical Results for Petroleum Hydrocarbons and CVOCs  
Soil Management Areas  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Soil Management Area	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)										
								GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC	
<b>Contained-In Criteria</b>								-	-	-	-	-	14	10	160	-	0.67	
B-221	2	B-221-16	9/20/17	PES	ESC	16	23.02	-	0.00791 U	0.0127 U	0.00869 U	0.0204 U	0.539	0.250	1.37	0.00773 U	0.0805 U	
		B-221-22	9/20/17	PES	ESC	22	17.02	-	0.311 U	0.499 U	0.342 U	0.803 U	25.8	0.984 J	2.56	0.304 U	0.335 U	
		B-221-33	9/20/17	PES	ESC	33	6.02	-	0.302 U	0.486 U	0.332 U	0.781 U	21.8	0.835 J	1.93	0.296 U	0.326 U	
		B-221-37	9/20/17	PES	ESC	37	2.02	-	0.0635 U	0.102 U	0.0698 U	0.165 U	9.02	0.447	0.438	0.0621 U	0.0684 U	
		B-915-80	9/20/17	PES	ESC	37 (dup)	2.02	-	0.0309 U	0.0497 U	0.0340 U	0.0800 U	7.54	0.400	0.342	0.0303 U	0.0334 U	
B-222	2	B-222-17	9/21/17	PES	ESC	17	22.16	-	0.000306 U	0.000492 U	0.000337 U	0.000791 U	1.01	0.815	0.000266 U	0.00481	0.00907	
		B-222-25	9/21/17	PES	ESC	25	14.16	-	0.000312 U	0.000502 U	0.000343 U	0.000807 U	0.714	0.130	0.109	0.00171	0.0116	
		B-222-34	9/21/17	PES	ESC	34	5.16	-	0.000303 U	0.000486 U	0.000333 U	0.000782 U	0.0190 UJ	0.00506	0.0255	0.000980 J	0.0120	
B-223	2	B-223-16	9/21/17	PES	ESC	16	23.10	-	0.0638 U	0.103 U	0.0702 U	0.165 U	27.0	1.08	1.71	0.0624 U	0.0688 U	
		B-223-22	9/21/17	PES	ESC	22	17.10	-	0.0617 U	0.0991 U	0.0678 U	0.160 U	38.0	0.453	0.713	0.0603 U	0.0665 U	
		B-223-30	9/21/17	PES	ESC	30	9.10	-	7.43 U	11.9 U	8.17 U	19.2 U	5,560	7.68 U	6.47 U	7.27 U	8.01 U	
		B-223-39	9/21/17	PES	ESC	39	0.10	-	0.000308 U	0.000494 U	0.000338 U	0.000795 U	4.68	0.0228	0.0914	0.000883 J	0.00775	
B-224	1	B-224-6	11/27/17	PES	ESC	6	33.10	-	0.000292 U	0.000469 U	0.000321 U	0.000755 U	0.0208	0.00205	0.000624 J	0.000285 U	0.000315 U	
		B-224-11	11/27/17	PES	ESC	11	28.10	-	0.000722 U	0.00174 J	0.000793 U	0.00186 U	0.151	0.0404	0.148	0.0136	0.0577	
		B-224-16	11/27/17	PES	ESC	16	23.10	-	0.000326 U	0.000525 U	0.000359 U	0.000844 U	0.0101	0.00374	0.0279	0.000403 J	0.0195	
		B-224-21.5	11/27/17	PES	ESC	21.5	17.60	-	0.000313 U	0.000504 U	0.000345 U	0.000810 U	2.71	0.0906	0.117	0.00140	0.00460	
		B-224-26	11/27/17	PES	ESC	26	13.10	-	0.000357 U	0.000574 U	0.000392 U	0.000923 U	3.07	0.234	0.289	0.00329	0.0154	
		B-224-31	11/27/17	PES	ESC	31	8.10	-	0.000316 U	0.000508 U	0.000348 U	0.000816 U	4.71	0.137	0.207	0.00128	0.00773	
		B-224-36	11/27/17	PES	ESC	36	3.10	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	6.55	0.269	0.326	0.00289	0.0255	
B-225	1	B-225-5	11/27/17	PES	ESC	5	34.10	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	0.0223	0.00239	0.00217	0.000286 U	0.000316 U	
		B-225-11	11/27/17	PES	ESC	11	28.10	-	0.000316 U	0.000508 U	0.000347 U	0.000816 U	0.0124	0.00394	0.0222	0.000309 U	0.000480 J	
		B-225-16	11/27/17	PES	ESC	16	23.10	-	0.00794 U	0.0127 U	0.00873 U	0.0205 U	4.26	0.353	1.62	0.00776 U	0.0460	
		B-225-21	11/27/17	PES	ESC	21	18.10	-	0.00767 U	0.0123 U	0.00844 U	0.0198 U	1.11	0.0428	0.0455	0.00750 U	0.00828 U	
		B-225-26	11/27/17	PES	ESC	26	13.10	-	0.000317 U	0.000510 U	0.000349 U	0.000820 U	1.13	0.0370	0.0710	0.000763 J	0.00619	
		B-225-31	11/27/17	PES	ESC	31	8.10	-	0.000309 U	0.000496 U	0.000339 U	0.000798 U	1.09	0.0372	0.164	0.000751 J	0.00550	
B-225	1	B-225-36	11/27/17	PES	ESC	36	3.10	-	0.000333 U	0.000535 U	0.000366 U	0.000860 U	0.158	0.00696	0.0115	0.000325 U	0.000538 J	
		B-226-6	11/28/17	PES	ESC	6	33.10	-	0.000325 U	0.000523 U	0.000358 U	0.000841 U	0.0227	0.00209	0.00317	0.000318 U	0.000350 U	
		B-226-11	11/28/17	PES	ESC	11	28.10	-	0.000306 U	0.000730 J	0.000337 U	0.000792 U	0.00869	0.00190	0.00338	0.000299 U	0.000805 J	
		B-226-16	11/28/17	PES	ESC	16	23.10	-	0.00757 U	0.0121 U	0.00832 U	0.0195 U	21.7 J	0.917 J	1.84 J	0.0147 J	0.0557 J	
		B-920-35	11/28/17	PES	ESC	16 (dup)	23.10	-	0.000299 U	0.000480 U	0.000329 U	0.000772 U	10.6 J	0.0316 J	0.0714 J	0.000613 J	0.00141 J	
		B-226-21	11/28/17	PES	ESC	21	18.10	-	0.000308 U	0.000494 U	0.000338 U	0.000795 U	3.07	0.00779	0.00832	0.000301 U	0.000390 J	
B-226	2	B-226-31.5	11/28/17	PES	ESC	31.5	7.60	-	0.000287 U	0.000462 U	0.000316 U	0.000743 U	4.80	0.0755	0.135	0.00128	0.0102	
		B-227-6	11/28/17	PES	ESC	6	33.10	-	0.000308 U	0.000496 U	0.000339 U	0.000797 U	0.0154	0.000798 J	0.000455 J	0.000301 U	0.000332 U	
		B-227-11	11/28/17	PES	ESC	11	28.10	-	0.000291 U	0.000468 U	0.000320 U	0.000752 U	0.141	0.0406	0.0438	0.00143	0.000314 U	
		B-227-16	11/28/17	PES	ESC	16	23.10	-	0.000309 U	0.000497 U	0.000340 U	0.000800 U	2.47	0.0804	0.429	0.00203	0.00781	
		B-227-21	11/28/17	PES	ESC	21	18.10	-	0.000313 U	0.000504 U	0.000345 U	0.000810 U	7.18	0.311	0.393	0.00290	0.0186	
		B-227-26	11/28/17	PES	ESC	26	13.10	-	0.000315 U	0.000506 U	0.000346 U	0.000813 U	7.86	0.124	0.351	0.00186	0.00735	
B-227	2	B-227-31	11/28/17	PES	ESC	31	8.10	-	0.000324 U	0.000521 U	0.000356 U	0.000837 U	8.38	0.0396	0.0636	0.000628 J	0.00446	
		B-227-36	11/28/17	PES	ESC	36	3.10	-	0.000310 U	0.000498 U	0.000341 U	0.000801 U	1.75	0.138	0.382	0.00193	0.00169	

Table 1

**Soil Analytical Results for Petroleum Hydrocarbons and CVOCs  
Soil Management Areas  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Soil Management Area	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)									
								GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
<b>Contained-In Criteria</b>								-	-	-	-	-	14	10	160	-	0.67
B-228	2	B-228-6	11/29/17	PES	ESC	6	33.10	-	0.000330 U	0.000531 U	0.000363 U	0.000854 U	0.0291	0.00216	0.00505	0.000323 U	0.000356 U
		B-228-11	11/29/17	PES	ESC	11	28.10	-	0.000300 U	0.000482 U	0.000330 U	0.000776 U	0.00300	0.000709 J	0.000669 J	0.000293 U	0.000323 U
		B-228-16	11/29/17	PES	ESC	16	23.10	-	0.000291 U	0.000556 J	0.000320 U	0.000752 U	203 J	0.680 J	0.811 J	0.00385	0.00764
		B-921-22	11/29/17	PES	ESC	16 (dup)	23.10	-	0.000310 U	0.000672 J	0.000341 U	0.000802 U	18.2 J	0.378 J	0.474 J	0.00415	0.00840
		B-228-21	11/29/17	PES	ESC	21	18.10	-	0.000305 U	0.000491 U	0.000336 U	0.000789 U	14.0	0.0594	0.0290	0.000496 J	0.000858 J
		B-228-26	11/29/17	PES	ESC	26	13.10	-	0.000291 U	0.000467 U	0.000320 U	0.000751 U	10.2	0.0775	0.112	0.000777 J	0.0127
		B-228-31	11/29/17	PES	ESC	31	8.10	-	0.000300 U	0.000482 U	0.000330 U	0.000775 U	1.60	0.0786	0.121	0.000614 J	0.0103
		B-228-36	11/29/17	PES	ESC	36	3.10	-	0.000305 U	0.000490 U	0.000336 U	0.000789 U	0.101	0.0486	0.0648	0.000603 J	0.0217
B-229	2	B-229-6	11/29/17	PES	ESC	6	33.10	-	0.000395 U	0.000635 U	0.000435 U	0.00102 U	0.769	0.0382	0.0257	0.000386 U	0.000426 U
		B-229-11	11/29/17	PES	ESC	11	28.10	-	0.000383 U	0.00219 J	0.000422 U	0.000991 U	0.0366	0.00585	0.118	0.00148	0.0272
		B-229-16	11/29/17	PES	ESC	16	23.10	-	0.000388 J	0.000517 U	0.000354 U	0.000832 U	0.101	0.0138	0.0188	0.000828 J	0.00481
		B-229-25	11/29/17	PES	ESC	25	14.10	-	0.000296 U	0.000476 U	0.000326 U	0.000765 U	2.50	0.510	0.865	0.00195	0.0418
		B-229-31	11/29/17	PES	ESC	31	8.10	-	0.000326 U	0.000523 U	0.000358 U	0.000842 U	4.99	1.53	2.35	0.00384	0.105
		B-229-36	11/29/17	PES	ESC	36	3.10	-	0.000297 U	0.000477 U	0.000327 U	0.000768 U	9.25	0.898	1.02	0.00217	0.0609
B-230	2	B-230-6	11/30/17	PES	ESC	6	33.10	-	0.000285 U	0.000458 U	0.000313 U	0.000736 U	0.0333	0.00215	0.00376	0.000278 U	0.000307 U
		B-230-11	11/30/17	PES	ESC	11	28.10	-	0.000348 J	0.000474 U	0.000324 U	0.000762 U	0.00442	0.000709 J	0.00634	0.000288 U	0.00225
		B-230-16	11/30/17	PES	ESC	16	23.10	-	0.0751 U	0.120 U	0.0826 U	0.194 U	1.100	9.17	10.4	0.0735 U	0.0810 U
		B-230-21	11/30/17	PES	ESC	21	18.10	-	0.645 U	1.04 U	0.709 U	1.67 U	2.820 J	4.43 J	2.71 J	0.630 U	0.695 U
		B-922-15	11/30/17	PES	ESC	21 (dup)	18.10	-	0.326 U	0.524 U	0.359 U	0.843 U	165 J	0.505 J	0.884 J	0.319 U	0.351 U
		B-230-26	11/30/17	PES	ESC	26	13.10	-	0.809 U	1.29 U	0.889 U	2.09 U	607	0.836 U	0.705 U	0.791 U	0.872 U
		B-230-31	11/30/17	PES	ESC	31	8.10	-	0.336 U	0.540 U	0.369 U	0.868 U	105	0.603 J	1.82	0.328 U	0.362 U
		B-230-35	11/30/17	PES	ESC	35	4.10	-	0.0488 U	0.0784 U	0.0536 U	0.174 J	25.4	0.211	0.470	0.0477 U	0.0525 U
B-231	2	B-231-6	11/30/17	PES	ESC	6	33.10	-	0.000333 U	0.000535 U	0.000366 U	0.000861 U	0.0109	0.00146	0.00617	0.000326 U	0.000359 U
		B-231-11	11/30/17	PES	ESC	11	28.10	-	0.000318 U	0.000512 U	0.000350 U	0.000823 U	0.0347	0.000346 J	0.000868 J	0.000311 U	0.000343 U
		B-231-16	11/30/17	PES	ESC	16	23.10	-	0.00756 U	0.0121 U	0.00831 U	0.0195 U	0.438	0.118	2.18	0.00739 U	0.0114 J
		B-231-21	11/30/17	PES	ESC	21	18.10	-	0.0179 U	0.0287 U	0.0196 U	0.0462 U	0.728	0.180	0.911	0.0174 U	0.0458 J
		B-231-26	11/30/17	PES	ESC	26	13.10	-	0.000314 U	0.000504 U	0.000345 U	0.000811 U	0.119	0.0177	0.122	0.000898 J	0.00996
		B-231-30	11/30/17	PES	ESC	30	9.10	-	0.000305 U	0.000490 U	0.000335 U	0.000787 U	0.0182	0.00140	0.00245	0.000298 U	0.00142
		B-231-36	11/30/17	PES	ESC	36	3.10	-	0.000306 U	0.000492 U	0.000337 U	0.000792 U	0.0521	0.00158	0.0441	0.000664 J	0.118
B-232	2	B-232-6	12/1/17	PES	ESC	6	33.10	-	0.000380 J	0.00268 J	0.000351 U	0.000825 J	0.00936	0.00224	0.00586	0.000488 J	0.00163
		B-232-11	12/1/17	PES	ESC	11	28.10	-	0.000630 J+	0.000806 J+	0.000395 U	0.000929 U	0.00590 J+	0.00169 J+	0.00464 J+	0.000351 U	0.00346 J+
		B-232-16	12/1/17	PES	ESC	16	23.10	-	0.000316 U	0.000508 U	0.000348 U	0.000817 U	0.000676 U	0.000327 U	0.0101	0.000309 U	0.00442
		B-232-21	12/1/17	PES	ESC	21	18.10	-	0.000302 U	0.000486 U	0.000332 U	0.000781 U	0.0190	0.0216	0.147	0.00106 J	0.00682
		B-232-26	12/1/17	PES	ESC	26	13.10	-	0.0101 U	0.0162 U	0.0111 U	0.0261 U	11.1	0.763	0.474	0.00987 U	0.0109 U
		B-232-31	12/1/17	PES	ESC	31	8.10	-	0.000305 U	0.000490 U	0.000335 U	0.000788 U	4.27	0.0964	0.0874	0.000524 J	0.0110
		B-232-36	12/1/17	PES	ESC	36	3.10	-	0.000320 U	0.000514 U	0.000352 U	0.000827 U	1.88	0.0913	0.110	0.000631 J	0.0123
B-233	2	B-233-6	12/1/17	PES	ESC	6	29.50	-	0.000291 U	0.000468 U	0.000320 U	0.000753 U	0.0192	0.00321	0.00266	0.000285 U	0.000314 U
		B-233-11	12/1/17	PES	ESC	11	24.50	-	0.00167 J+	0.00349 J+	0.000828 U	0.00194 U	0.172 J+	0.0579 J+	0.0321 J+	0.000737 U	0.00824 J+
		B-233-16	12/1/17	PES	ESC	16	19.50	-	0.000420 J	0.000612 U	0.000419 U	0.000985 U	0.0231	0.00524	0.0101	0.000373 U	0.00358
		B-233-21	12/1/17	PES	ESC	21	14.50	-	0.00770	0.0123 U	0.00847 U	0.0199 U	8.23	0.434	0.645	0.00859 J	0.0584
		B-233-26	12/1/17	PES	ESC	26	9.50	-	0.0161 U	0.0259 U	0.0177 U	0.0417 U	9.90	2.55	2.40	0.0158 U	0.0261 J
		B-233-31	12/1/17	PES	ESC	31	4.50	-	0.00839 U	0.0134 U	0.00923 U	0.0216 U	17.3	1.99	1.65	0.00821 U	0.0519











Table 1

**Soil Analytical Results for Petroleum Hydrocarbons and CVOCs  
Soil Management Areas  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Soil Management Area	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)																		
								GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC									
<b>Contained-In Criteria</b>								-																		
DB02	1	DB02-10	3/18/13	SES	F&BI	10	26.00	2	U	0.02	U	0.02	U	0.02	U	0.06	U	0.025	U	0.03	U	0.05	U	0.05	U	
		DB02-15	3/18/13	SES	F&BI	15	21.00	2	U	0.02	U	0.02	U	0.02	U	0.06	U	-	-	-	-	-	-	-	-	
		DB02-20	3/18/13	SES	F&BI	20	16.00	-	-	-	-	-	-	-	-	-	-	0.22	0.03	U	0.05	U	0.05	U	0.05	U
		DB02-30	3/18/13	SES	F&BI	30	6.00	-	-	-	-	-	-	-	-	-	-	0.058	0.03	U	0.05	U	0.05	U	0.05	U
DB05	1	DB05-10	3/26/13	SES	F&BI	10	41.80	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
		DB05-20	3/26/13	SES	F&BI	20	31.80	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
		DB05-30	3/26/13	SES	F&BI	30	21.80	-	-	-	-	-	-	-	-	-	3.2	0.040	0.05	U	0.05	U	0.05	U	0.05	U
		DB05-40	3/26/13	SES	F&BI	40	11.80	-	-	-	-	-	-	-	-	-	14	0.085	0.05	U	0.05	U	0.05	U	0.05	U
		DB05-50	3/26/13	SES	F&BI	50	1.80	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
DB09	1	DB09-10	3/19/13	SES	F&BI	10	30.00	-	-	-	-	-	-	-	-	-	0.027	0.03	U	0.05	U	0.05	U	0.05	U	
		DB09-20	3/19/13	SES	F&BI	20	20.00	-	-	-	-	-	-	-	-	-	0.15	0.03	U	0.05	U	0.05	U	0.05	U	
		DB09-30	3/19/13	SES	F&BI	30	10.00	-	-	-	-	-	-	-	-	-	6.1	0.22	0.25	0.05	U	0.05	U	0.05	U	
		DB09-40	3/19/13	SES	F&BI	40	0.00	-	-	-	-	-	-	-	-	-	1.3	0.28	0.18	0.05	U	0.05	U	0.05	U	
DB11	1	DB11-15	4/2/13	SES	F&BI	15	36.80	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
		DB11-25	4/2/13	SES	F&BI	25	26.80	-	-	-	-	-	-	-	-	-	0.028	0.03	U	0.05	U	0.05	U	0.05	U	
		DB11-35	4/2/13	SES	F&BI	35	16.80	-	-	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U
		DB11-45	4/2/13	SES	F&BI	45	6.80	-	-	-	-	-	-	-	-	-	15	0.12	0.05	U	0.05	U	0.05	U	0.05	U
DB14	1	DB14-10	4/4/13	SES	F&BI	10	31.50	260	-	0.059	0.41	1.2	3.6	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U	0.05	U	
		DB14-20	4/4/13	SES	F&BI	20	21.50	73	-	0.02	U	0.078	0.29	1.0	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
		DB14-30	4/4/13	SES	F&BI	30	11.50	-	-	-	-	-	-	-	0.025	U	0.03	U	0.05	U	0.05	U	0.05	U		
		DB14-40	4/4/13	SES	F&BI	40	1.50	-	-	-	-	-	-	-	0.050	0.03	U	0.077	0.05	U	0.05	U	0.05	U		
IW06	1	IW06-25	1/15/16	SES	F&BI	25	26.80	-	-	-	-	-	-	-	-	-	0.49	ve	0.010	0.005	U	0.005	U	0.005	U	
		IW06-30	1/15/16	SES	F&BI	30	21.80	-	-	-	-	-	-	-	-	-	0.19	0.0080	0.005	U	0.005	U	0.005	U		
		IW06-40	1/15/16	SES	F&BI	40	11.80	-	-	-	-	-	-	-	-	-	0.005	U	0.003	U	0.005	U	0.005	U		
		IW06-50	1/15/16	SES	F&BI	50	1.80	-	-	-	-	-	-	-	-	-	0.071	0.003	U	0.005	U	0.005	U	0.005	U	
IW-1C	1	IW-1C-5	3/7/18	PES	ESC	5	34.14	-	0.000300	U	0.000482	U	0.000330	U	0.000775	U	0.0399	0.00620	0.00291	0.000293	U	0.000323	U			
		IW-1C-15	3/7/18	PES	ESC	15	24.14	-	0.000317	U	0.000510	U	0.000349	U	0.000820	U	0.00145	0.000516	J	0.00154	0.000310	U	0.000790	J		
		IW-1C-25	3/7/18	PES	ESC	25	14.14	-	0.0641	U	0.103	U	0.0705	U	0.166	U	11.1	0.845	0.769	0.0627	U	0.0691	U			
		IW-1C-35	3/7/18	PES	ESC	35	4.14	-	0.000290	U	0.000465	U	0.000319	U	0.000749	U	2.66	0.286	0.404	0.00339	0.0511					
IW-2C	1	IW-2C-5	3/7/18	PES	ESC	5	31.33	-	0.000546	J	0.000536	U	0.000367	U	0.000862	U	0.000478	J	0.000790	J	0.00860	0.000363	J	0.000593	J	
		IW-2C-15	3/7/18	PES	ESC	15	21.33	-	0.000323	U	0.000519	U	0.000355	U	0.000834	U	0.000330	U	0.000333	U	0.000795	J	0.000315	U	0.00186	
		IW-2C-25	3/7/18	PES	ESC	25	11.33	-	0.000302	U	0.000485	U	0.000332	U	0.000780	U	6.20	0.388	0.304	0.00130	0.00850					
		IW-2C-35	3/7/18	PES	ESC	35	1.33	-	0.000340	U	0.000547	U	0.000374	U	0.000879	U	0.947	0.0403	0.0708	0.000522	J	0.00140				
IW-3C	2	IW-3C-5	3/9/18	PES	ESC	5	34.13	-	0.000295	U	0.000475	U	0.000325	U	0.000763	U	0.0323	0.00162	0.000620	J	0.000289	U	0.000318	U		
		IW-3C-15	3/9/18	PES	ESC	15	24.13	-	0.00782	U	0.0125	U	0.00860	U	0.0202	U	1.36	0.0812	0.422	0.00765	U	0.00964	J			
		IW-3C-25	3/9/18	PES	ESC	25	14.13	-	0.159	U	0.256	U	0.175	U	0.412	U	19.0	0.774	0.968	0.156	U	0.172	U			
		IW-3C-35	3/9/18	PES	ESC	35	4.13	-	0.0600	U	0.0965	U	0.0660	U	0.156	U	9.68	0.456	0.918	0.0587	U	0.0932	J			









Table 1

**Soil Analytical Results for Petroleum Hydrocarbons and CVOCs  
Soil Management Areas  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Soil Management Area	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)											
								GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
<b>Contained-In Criteria</b>								-	-	-	-	-	<b>14</b>	<b>10</b>	<b>160</b>	-	<b>0.67</b>		
B-213	1	B-213-15	9/5/17	PES	ESC	15	42.42	-	0.000313 U	0.000503 U	0.000344 U	0.000809 U	<b>0.00289</b>	0.000323 U	0.000272 U	0.000306 U	0.000337 U		
		B-213-21.5	9/5/17	PES	ESC	22	35.92	-	<b>0.000385 J</b>	<b>0.000540 J</b>	<b>0.000991 J</b>	<b>0.0126 J</b>	<b>0.00263</b>	0.000291 U	0.000245 U	0.000275 U	0.000303 U		
		B-213-35	9/5/17	PES	ESC	35	22.42	-	0.000292 U	0.000470 U	0.000322 U	0.000756 U	0.000299 U	0.000302 U	0.000254 U	0.000286 U	0.000315 U		
		B-213-45	9/5/17	PES	ESC	45	12.42	-	0.000299 U	0.000481 U	0.000329 U	0.000774 U	0.000306 U	0.000309 U	0.000260 U	0.000293 U	0.000323 U		
		B-213-55	9/5/17	PES	ESC	55	2.42	-	0.000294 U	0.000472 U	0.000323 U	0.000760 U	0.000300 U	0.000304 U	0.000256 U	0.000287 U	0.000317 U		
B-214	1	B-214-15	9/7/17	PES	ESC	15	42.42	-	0.000290 U	0.000465 U	0.000318 U	0.000748 U	0.000296 U	0.000299 U	0.000252 U	0.000283 U	0.000312 U		
		B-214-25	9/7/17	PES	ESC	25	32.42	-	0.000285 U	0.000459 U	0.000314 U	0.000738 U	0.000292 U	0.000295 U	0.000248 U	0.000279 U	0.000308 U		
		B-214-35	9/7/17	PES	ESC	35	22.42	-	0.000293 U	0.000471 U	0.000322 U	0.000758 U	0.000300 U	0.000303 U	0.000255 U	0.000287 U	0.000316 U		
		B-214-45	9/7/17	PES	ESC	45	12.42	-	0.000287 U	0.000462 U	0.000316 U	0.000743 U	0.000294 U	0.000297 U	0.000250 U	0.000281 U	0.000310 U		
		B-214-55	9/7/17	PES	ESC	55	2.42	-	<b>0.000343 J</b>	0.000482 U	0.000330 U	0.000775 U	0.000306 U	0.000310 U	0.000261 U	0.000293 U	0.000323 U		
B-215	1	B-215-15	9/12/17	PES	ESC	15	38.95	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	0.000299 U	0.000303 U	0.000255 U	0.000286 U	0.000316 U		
		B-215-25	9/12/17	PES	ESC	25	28.95	-	0.000289 U	0.000464 U	0.000318 U	0.000747 U	<b>0.00480</b>	0.000299 U	0.000252 U	0.000283 U	0.000311 U		
		B-215-35	9/12/17	PES	ESC	35	18.95	-	0.000318 U	0.000512 U	0.000350 U	0.000823 U	<b>0.0277</b>	<b>0.00195</b>	<b>0.0620</b>	0.000311 U	0.000343 U		
MW102 (B102)	1	B102-20	7/17/12	SES	F&BI	20	29.19	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B102-30	7/17/12	SES	F&BI	30	19.19	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B102-38	7/17/12	SES	F&BI	38	11.19	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B102-40	7/17/12	SES	F&BI	40	9.19	-	-	-	-	-	-	-	-	-	-		
MW104 (B104)	1	B104-10	7/30/12	SES	F&BI	10	32.68	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B104-20	7/30/12	SES	F&BI	20	22.68	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B104-30	7/30/12	SES	F&BI	30	12.68	-	-	-	-	-	<b>1.8</b>	<b>0.086</b>	<b>0.14</b>	0.05 U	0.05 U		
		B104-35	7/30/12	SES	F&BI	35	7.68	-	-	-	-	-	<b>7.1</b>	<b>0.23</b>	<b>0.099</b>	0.05 U	0.05 U		
MW107 (B107)	1	B107-05	3/12/12	SES	F&BI	5	38.82	2 U	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B107-15	3/12/12	SES	F&BI	15	28.82	2 U	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B107-25	3/12/12	SES	F&BI	25	18.82	2 U	0.03 U	0.05 U	0.05 U	0.15 U	<b>0.60</b>	<b>0.063</b>	<b>0.060</b>	0.05 U	0.05 U		
MW112 (B112)	1	B112-10	11/12/12	SES	F&BI	10	47.49	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B112-20	11/12/12	SES	F&BI	20	37.49	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B112-30	11/12/12	SES	F&BI	30	27.49	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B112-40	11/12/12	SES	F&BI	40	17.49	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B112-50	11/12/12	SES	F&BI	50	7.49	-	-	-	-	-	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
MW121 (B121)	1	B121-15	12/16/13	SES	F&BI	15	26.72	2 U	0.3 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B121-25	12/16/13	SES	F&BI	25	16.72	2 U	0.3 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
MW124 (B124)	1	B124-10	12/19/13	SES	F&BI	10	46.24	2 U	-	-	-	-	-	-	-	-	-		
		B124-20	12/19/13	SES	F&BI	20	36.24	2 U	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B124-30	12/19/13	SES	F&BI	30	26.24	2 U	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B124-40	12/19/13	SES	F&BI	40	16.24	2 U	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
		B124-50	12/19/13	SES	F&BI	50	6.24	-	0.03 U	0.05 U	0.05 U	0.15 U	0.025 U	0.03 U	0.05 U	0.05 U	0.05 U		
MW-138	1	MW-138-15	9/12/17	PES	ESC	15	42.48	-	0.000321 U	0.000516 U	0.000353 U	0.000830 U	0.000328 U	0.000332 U	0.000279 U	0.000314 U	0.000346 U		
		MW-138-25	9/12/17	PES	ESC	25	32.48	-	0.000311 U	0.000500 U	0.000342 U	0.000804 U	0.000318 U	0.000321 U	0.000271 U	0.000304 U	0.000335 U		
		MW-138-35	9/12/17	PES	ESC	35	22.48	-	0.000288 U	0.000464 U	0.000317 U	0.000746 U	0.000295 U	0.000298 U	0.000251 U	0.000282 U	0.000311 U		
		MW-138-45	9/12/17	PES	ESC	45	12.48	-	0.000285 U	0.000459 U	0.000314 U	0.000738 U	0.000292 U	0.000295 U	0.000248 U	0.000279 U	0.000308 U		
		MW-138-56	9/12/17	PES	ESC	56	1.48	-	0.000304 U	0.000488 U	0.000334 U	0.000785 U	0.000310 U	0.000314 U	0.000264 U	0.000297 U	0.000327 U		

Table 1

**Soil Analytical Results for Petroleum Hydrocarbons and CVOCs  
Soil Management Areas  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Soil Management Area	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)											
								GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC		
<b>Contained-In Criteria</b>								-	-	-	-	-	14	10	160	-	0.67		
MW-140	1	MW-140-15	8/30/17	PES	ESC	15	35.57	-	0.000308 U	0.000495 U	0.000339 U	0.000796 U	0.000315 U	0.000318 U	0.000268 U	0.000301 U	0.000332 U		
		MW-140-25	8/30/17	PES	ESC	25	25.57	-	0.000293 U	0.000471 U	0.000322 U	0.000757 U	<b>0.147</b>	<b>0.0107</b>	<b>0.00199</b>	0.000286 U	0.000316 U		
		MW-140-35	8/30/17	PES	ESC	35	15.57	-	0.00786 U	0.0126 U	0.00865 U	0.0203 U	<b>15.1</b>	<b>0.629</b>	<b>0.387</b>	0.00769 U	<b>0.0107 J</b>		
		MW-140-45	8/30/17	PES	ESC	45	5.57	-	0.000288 U	0.000463 U	0.000317 U	0.000745 U	<b>4.27</b>	<b>0.0793</b>	<b>0.0431</b>	0.000282 U	<b>0.00160</b>		
MW-160	1	MW-160-11	5/8/18	PES	ESC	11	31.50	-	0.000649 U	<b>0.00635 J</b>	0.000860 U	0.00776 U	0.00114 U	0.000649 U	0.00112 U	0.00232 U	0.00110 U		
		MW-160-21	5/8/18	PES	ESC	21	21.50	-	<b>0.000662 J</b>	<b>0.00421 J</b>	0.000621 U	0.00560 U	<b>0.000966 J</b>	0.000469 U	<b>0.00357</b>	0.00168 U	0.000801 U		
		MW-160-31	5/8/18	PES	ESC	31	11.50	-	<b>0.000503 J</b>	<b>0.00285 J</b>	0.000643 U	0.00580 U	0.000849 U	0.000485 U	0.000837 U	0.00173 U	0.000828 U		
		MW-160-40	5/8/18	PES	ESC	40	2.50	-	0.000454 U	<b>0.00196 J</b>	0.000602 U	0.00543 U	<b>0.281</b>	<b>0.100</b>	<b>0.151</b>	<b>0.00373 J</b>	0.000775 U		
MW-161	1	MW-161-11	5/14/18	PES	ESC	11	32.82	-	0.00123 U	0.00615 U	0.00307 U	0.00799 U	<b>0.00523</b>	0.00123 U	<b>0.00563</b>	0.00615 U	0.00307 U		
		MW-161-21	5/14/18	PES	ESC	21	22.82	-	0.00104 U	0.00520 U	0.00260 U	0.00676 U	0.00260 U	0.00104 U	<b>0.00364</b>	0.00520 U	0.00260 U		
		MW-161-31	5/14/18	PES	ESC	31	12.82	-	0.00114 U	0.00572 U	0.00286 U	0.00744 U	<b>0.0159</b>	<b>0.00196</b>	<b>0.00387</b>	0.00572 U	0.00286 U		
		MW-161-40	5/14/18	PES	ESC	40	3.82	-	0.00110 U	0.00552 U	0.00276 U	0.00717 U	<b>0.00438</b>	<b>0.00132</b>	<b>0.376</b>	0.00552 U	0.00276 U		
R-MW6	1	Unknown	10/27/92	Roux	Unknown	6	39.28	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
		Unknown	10/27/92	Roux	Unknown	11	34.28	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
		Unknown	10/27/92	Roux	Unknown	16	29.28	-	-	-	-	-	0.005 U	0.005 U	-	0.005 U	0.010 U		
W-MW-01 (P-03)	1	SB-W-03-0160	1/27/12	WW	ARI	16-16.5	28.38	-	0.0010 U	<b>0.0006 J</b>	0.0010 U	0.0020 U	0.0010 U	0.0010 U	<b>0.0006 J</b>	0.0010 U	0.0010 U		
		SB-W-03-0225	1/27/12	WW	ARI	22.5-23	21.88	-	0.0009 U	<b>0.0007 J</b>	0.0009 U	0.0018 U	<b>0.03 B</b>	<b>0.0018</b>	<b>0.0021</b>	0.0009 U	0.0009 U		
		SB-W-03-0315	1/27/12	WW	ARI	31.5-32	12.88	-	0.21 U	0.21 U	0.21 U	0.42 U	<b>16 B</b>	<b>0.59</b>	<b>0.48</b>	0.21 U	0.21 U		
W-MW-02 (P-06)	1	SB-W-06-0900	1/29/12	WW	ARI	9-9.5	33.96	-	<b>0.0009 J</b>	0.0013 U	0.0013 U	0.0026 U	<b>0.058 T</b>	<b>0.0081</b>	0.0013 U	0.0013 U	0.0013 U		
		SB-W-06-0185	1/29/12	WW	ARI	18.5-19	24.46	-	<b>0.0008 J</b>	<b>0.0006 J</b>	0.0009 U	0.0018 U	0.0009 UT	0.0009 U	0.0009 U	0.0009 U	0.0009 U		
		SB-W-06-0305	1/30/12	WW	ARI	30.5-31	12.60	-	0.27 U	0.27 U	0.27 U	0.34 U	<b>18</b>	<b>0.41</b>	<b>0.4</b>	0.27 U	0.27 U		
		SB-W-06-0380	1/30/12	WW	ARI	38-38.5	4.96	-	0.046 U	0.046 U	0.046 U	0.092 U	<b>0.14</b>	<b>0.057</b>	<b>0.52</b>	0.046 U	0.046 U		
		SB-W-06-0405	1/30/12	WW	ARI	40.5-41	2.46	-	0.036 U	0.036 U	0.036 U	0.072 U	<b>5.2</b>	<b>0.2</b>	<b>0.15</b>	0.036 U	0.036 U		

Table 1

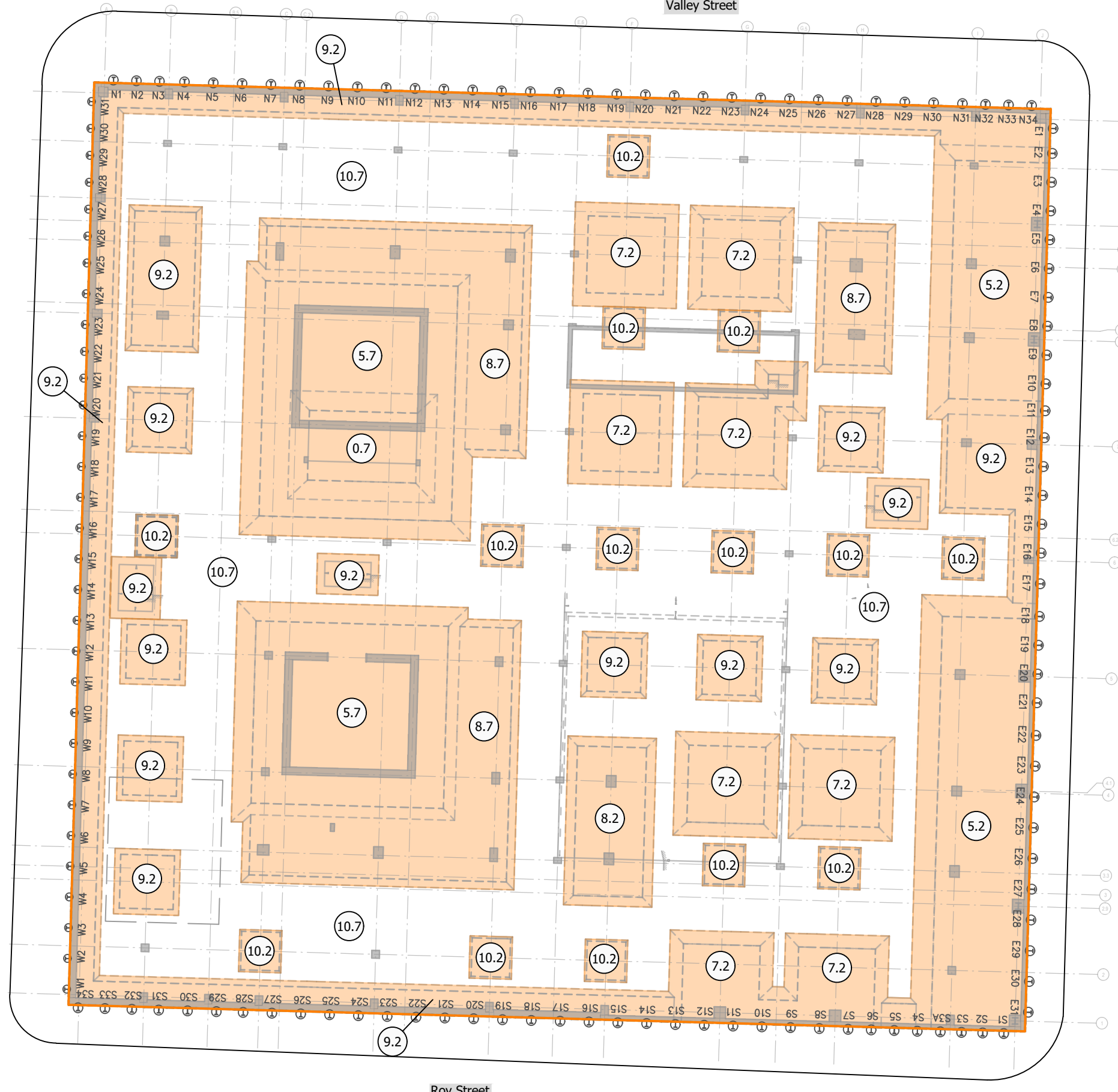
**Soil Analytical Results for Petroleum Hydrocarbons and CVOCs  
Soil Management Areas  
Former American Linen Supply  
700 Dexter Avenue North, Seattle, Washington**

Sample Location	Soil Management Area	Sample ID	Sample Date	Sampled By	Lab	Sample Depth (feet bgs)	Sample Elevation (feet NAVD 88)	Analytical Results (milligrams per kilogram)									
								GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes	PCE	TCE	cDCE	tDCE	VC
<b>Contained-In Criteria</b>								-	-	-	-	-	14	10	160	-	0.67
<p><u>Notes:</u></p> <p>1. PHCs Analyzed by Method WTPH-HCID, Method 418.1, EPA Method 8020, EPA Method 8015M, or NWTPH-Gx.</p> <p>-</p> <p><u>Laboratory and Results Notes:</u></p> <p>4. Detected results shown in bold, detections above the criteria for contained-in disposal highlighted in gray</p> <p>5. - =results not available or results not analyzed/measured</p> <p>6. B = Analyte detected in an associated method blank.</p> <p>7. J = The reported concentration is an estimate based on detectable results between the method detection limit and reporting limit, laboratory QA/QC, or data validation review.</p> <p>8. J+ = The result is an estimated quantity, but the result may be biased high.</p> <p>9. J- = The result is an estimated quantity, but the result may be biased low.</p> <p>10. q = Sample may contain gasoline or petroleum components. Chromatographic pattern indicates the presence of gasoline constituents.</p> <p>11. R = The data is unusable. The sample result is rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the sample</p> <p>12. T = Analyte also detected in trip blank.</p> <p>13. U = Not detected at a concentration exceeding laboratory reporting limit</p> <p>14. ve = Estimated value. The reported range exceeds the calibration range of the analysis.</p> <p>15. z = Gasoline/petroleum detection result is likely elevated due to high detections of CVOCs.</p>								<p><u>Abbreviations:</u></p> <p>16. PCE = perchloroethylene (tetrachloroethene)</p> <p>17. ARI = Analytical Resource, Incorporated, Seattle, Washington</p> <p>18. bgs = below ground surface</p> <p>19. cDCE = cis1-2,-dichloroethene</p> <p>20. CLARC = cleanup levels and risk calculations</p> <p>21. CVOCs = chlorinated volatile organic compounds</p> <p>22. Comp = Composite Sample</p> <p>23. dup = duplicate</p> <p>24. EPJ = E.PJohnson Construction Inc., and Environmental</p> <p>25. ESC = ESC Lab Services</p> <p>26. F&amp;BI = Friedman &amp; Bruya, Inc.</p> <p>27. GRO = gasoline-range petroleum hydrocarbons</p> <p>28. HCID = hydrocarbon identification</p> <p>29. MTCA = Washington State Model Toxics Control Act</p> <p>30. NWTPH = Northwest Total Petroleum Hydrocarbon</p> <p>31. Pace = Pace Analytical</p> <p>32. PCE = perchloroethylene (tetrachloroethene)</p> <p>33. PES = PES Environmental, Inc.</p> <p>34. PHCs = petroleum hydrocarbons</p> <p>35. Retec = Remediation Technologies, Inc.</p> <p>36. Roux = Roux Associates</p> <p>37. SES = SoundEarth Strategies, Inc.</p> <p>38. TCE = trichloroethylene</p> <p>39. tDCE = trans-1,2-dichloroethene</p> <p>40. TR = TR Corporation</p> <p>41. Urban = Urban Redevelopment LLC</p> <p>42. VC = Vinyl Chloride</p> <p>43. WAC = Washington Administrative Code</p> <p>44. WW = WW Environmental LLC</p>									

Dexter Avenue North

Valley Street

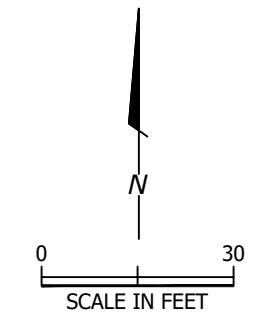
8th Avenue North



Explanation

- Limits of Excavation
- 5.9 Thickened Slab Section with Elevation Designation

Shoring Wall	Solider Pile Number	Borehole Diameter (feet)	Bottom Elevation (feet)
North	N1 through N29	2.5	0
	N30	2.5	-2
	N31 through N34	2.5	-4
East	E1 through E31	2.5	-4
	S1 through S3A	2.5	-2
	S4 through S12	2.5	-2
	S13	2.5	-1
	S14 through S27	2.5	0
South	S28 through S34	2.5	-7.5
	W1	2.0	0
	W2 through W5	2.0	-9.5
	W6 through W8	2.0	-14.5
	W9 through W16	2.0	-6
West	W17 through W31	2.0	0

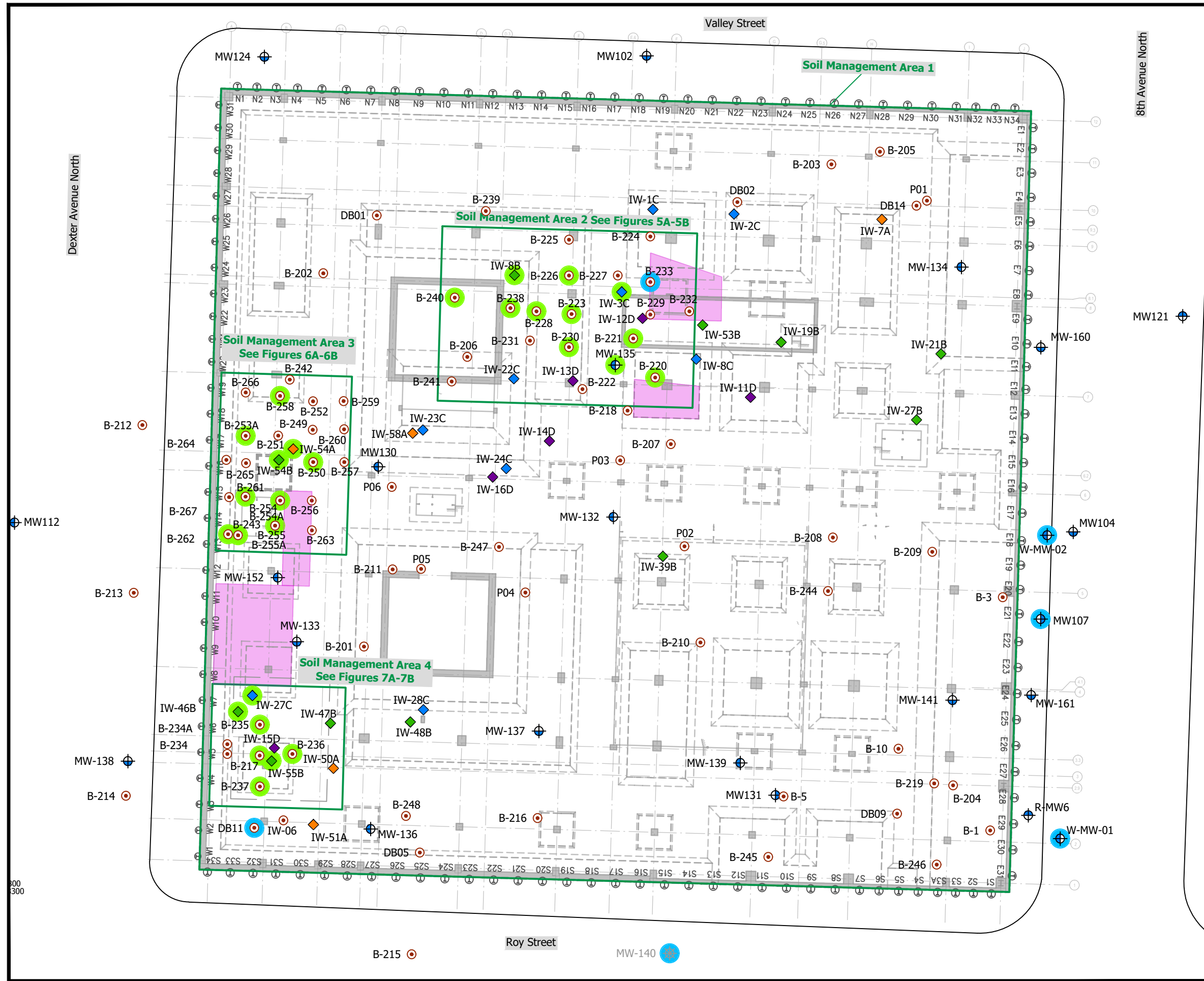


Structural Drawings: Sheet S30/P.3 "Level P3/Foundation Plan"  
prepared by Magnussen Klemencic Associates

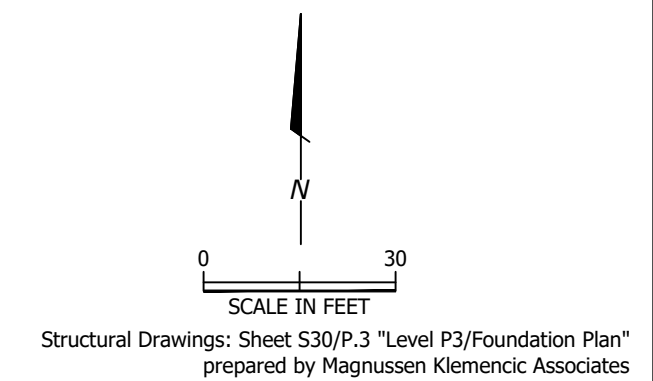
**PES Environmental, Inc.**  
Engineering & Environmental Services

**Site Plan and Excavation Limits**  
Contained-in Determination Request  
Former American Linen Supply  
700 Dexter Avenue North  
Seattle, Washington

FIGURE  
**1**



- Explanation**
- Limits of Soil Management Areas
  - 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
  - MW-140 Destroyed/Abandoned Monitoring Well
  - Soldier Pile Location  
Note: Soldier Piles and other shoring system components (tie backs and soil nails) are included in Soil Management Area 1
  - Sample Location has PCE data exceeding 14 mg/kg above elevation zero and above elevation 0 feet
  - Sample Location has PCE data exceeding 14 mg/kg above elevation zero but below planned excavation depth or off-property
  - Area to be over-excavated below the minimum design elevation down to elevation 5 feet



**PES Environmental, Inc.**  
Engineering & Environmental Services

**Soil Management Areas**  
Contained-in Determination Request  
Former American Linen Supply  
700 Dexter Avenue North  
Seattle, Washington



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

*Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000  
711 for Washington Relay Service • Persons with a speech disability can call (877) 833-6341*

March 18, 2019

John Moshy  
BMR-Dexter LLC  
17190 Bernard Center Drive  
San Diego, CA 92128

**Re: Contained-in Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington**

Reference: 1. Letter Report from B. O'Neal, PES Environmental, Inc. to B. Maeng, Ecology, dated March 5, 2019  
2. Emails from B. O'Neal, PES Environmental, Inc. to B. Maeng, Ecology on March 13 and 14, 2019

Dear John Moshy:

The Washington State Department of Ecology (Ecology) received a contained-in determination request from your environmental consultant, PES Environmental, Inc., for approximately 127,100 tons of contaminated soils to be generated during the construction activities at the former American Linen Supply Co - Dexter Ave site located at 700 Dexter Avenue North in Seattle, Washington (Reference 1).

Analytical data and supplemental information for the contaminated soils were submitted to Ecology (References 1 and 2) to determine if these soils contaminated with listed dangerous waste constituents (F002) may be exempt from management as dangerous wastes per the "Contained-In Policy"<sup>1</sup>. Ecology understands that these contaminated soils do not designate under federal characteristics (WAC 173-303-090) or State-only criteria (WAC 173-303-100).

Based on the information received and reviewed, Ecology has determined that these soils are contaminated with F002 listed dangerous waste constituents at concentrations that do not warrant management as dangerous wastes, and Ecology will not require disposal of these soils as listed dangerous wastes at a RCRA permitted dangerous waste treatment, storage and disposal (TSD) facility, provided that all of the following conditions are implemented. This contained-in

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<sup>1</sup> Washington State Department of Ecology Contained-in Policy, dated February 19, 1993

determination applies only to the contaminated soils, and does not pertain to contaminated water or any mixture of contaminated soils and drilling fluids.

You or your consultant, PES Environmental shall:

- Ensure that no standing water is present within the drums/containers holding the contaminated soils. All water must be removed to the maximum extent possible from the drums/containers, and managed as F002 dangerous wastes or as otherwise allowed under Chapter 173-303 WAC. Adding bentonite or similar materials to absorb standing F002 listed waste contaminated water in the containers is not allowed. Mixtures of bentonite or similar materials and the listed waste contaminated water must be managed as F002 listed dangerous wastes;
- Submit confirmation sampling data for soils excavated from groundwater intermediate zone in Soil Management Areas 2, 3 and 4 for Ecology approval prior to transporting the soils to the landfill;
- Directly deliver the soils to a solid waste landfill permitted under WAC 173-351 inside Washington State. If you plan to deliver the contaminated soils to a landfill outside Washington State, you must submit Ecology written approval for the contaminated soil disposal from the receiving State hazardous waste program and the out of state landfill, before the soils are delivered to the out of state landfill;
- Dispose of the contaminated soils at the solid waste landfill by December 31, 2019 or within 90 days after excavation, whichever comes first. This contained-in determination letter is no longer valid after December 31, 2019, and the contaminated soils must be managed as dangerous wastes;
- During this extended soil excavation and disposal period, the construction site must be secured by fencing or any other security measures. You and your consultant must implement all reasonable engineering controls to prevent further contamination of soil and groundwater. Ecology may require additional soil sampling data to make sure the soil characteristics are still the same as when this contained-in determination was issued. You and your consultant must update Ecology of the soil excavation and disposal status at least once every 3 months;
- If you load the contaminated soils directly onto the truck bed or the contaminated soils are transported in roll-off bins, the truck or the roll-off bins must be lined with plastic and properly covered to prevent leaks, spills or dispersion due to wind erosion;
- Provide copies of all signed solid waste landfill receipts or a certificate of disposal issued by the receiving landfill for these contaminated soils to Ecology, attention of Byung Maeng, by January 31, 2020 or within 15 days of your receipts, whichever comes first. This is an important verification step for you and your consultant to follow in order for this Ecology decision to be valid;

- Do not consolidate these contaminated soils with other soils that do not pertain to this contained-in determination;
- Notify Ecology before disposal of the soils if the amount exceeds the approved amount in this letter. Ecology needs to make sure that the additional soil qualifies for this contained-in determination;
- Ensure that the transporter is properly trained to handle hazardous waste so that the transporter manages the contained-in determination soils during transport in a manner that is protective of human health and the environment;
- Take measures to prevent unauthorized contact with these soils at all times;
- Provide instructions to the landfill operator that these soils are not to be used for daily, intermediate, or final cover;
- Provide copies of all soil analytical data to the landfill operator, upon request; and
- Do not send these contaminated soils to any incinerator, thermal desorption unit or recycling facility unless that facility is a RCRA Subtitle C permitted dangerous waste TSD facility.

Ecology issued this determination based on the information provided and reviewed to date. Ecology will rescind this approval if the information submitted by the property owner or its environmental consultant does not accurately represent the site conditions or is materially false or misleading, or if the Ecology requirements listed above are not followed.

This written decision only applies to the 127,100 tons of soils described above (refer to Figure 2 attached), and does not apply to any other area or other media. Any data used for this contained-in determination is intended for use in determining the proper disposal of the soils according to the Washington State Dangerous Waste Regulations (Chapter 173-303 WAC) and the Ecology Contained-in Policy. This letter is not an Ecology approval for dangerous waste designation or disposal of contaminated soils that may be generated or already excavated from other areas in this property.

This letter is not a No Further Action (NFA) letter and not written approval for any cleanup action plan you may have submitted. Regulatory decisions regarding the cleanup action, applicable soil and groundwater cleanup levels and any other cleanup issues must comply with the requirements under the Ecology Model Toxics Control Act (Chapter 173-340 WAC). Local agencies may have the authority to impose additional requirements on this waste stream.

If you fail to comply with the terms of this letter, Ecology may issue an administrative order and/or penalty as provided by the Revised Code of Washington, Sections 70.105.080 and/or .095 (Hazardous Waste Management Act).

John Moshy  
March 18, 2019  
Page 4

If you have any questions concerning this letter, please contact me at (425) 649-7253 or [bmae461@ecy.wa.gov](mailto:bmae461@ecy.wa.gov).

Sincerely,

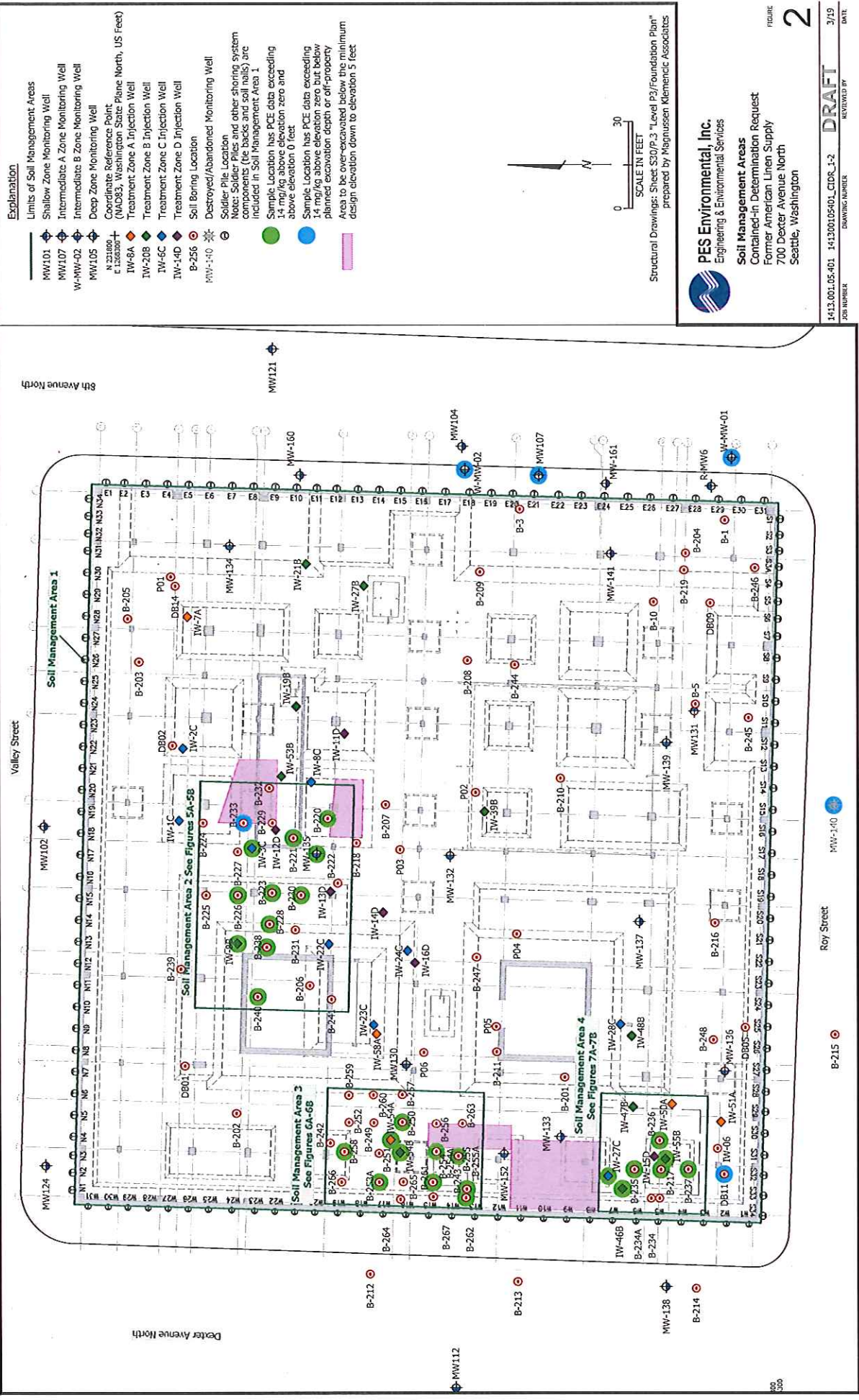


Byung Maeng, PE  
Hazardous Waste and Toxics Reduction Program

Sent by Certified Mail: 9171 9690 0935 0214 2539 92

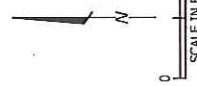
Enclosure: Figure 2 Soil Management Areas

ecc: Daniel Balbiani, PES Environmental, [dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)  
Brian O'Neal, PES Environmental, [boneal@pesenv.com](mailto:boneal@pesenv.com)  
Eyasu Ayalew, Seattle-King County Public Health, [eyalew@kingcounty.gov](mailto:eyalew@kingcounty.gov)  
Darshan Dhillon, Seattle-King County Public Health, [darshan.dhillon@kingcounty.gov](mailto:darshan.dhillon@kingcounty.gov)  
Tamara Cardona-Marek, Ecology  
Greg Caron, Ecology  
Mindy Collins, Ecology  
Chuck Hoffman, Ecology  
Karen Wood, Ecology  
Dean Yasuda, Ecology



**Explanation**

- Limits of Soil Management Areas
- Shallow Zone Monitoring Well
- Intermediate A Zone Monitoring Well
- Intermediate B Zone Monitoring Well
- Deep Zone Monitoring Well
- Coordinate Reference Point (NAD83, Washington State Plane North, US Feet)
- Treatment Zone A Injection Well
- Treatment Zone B Injection Well
- Treatment Zone C Injection Well
- Treatment Zone D Injection Well
- Soil Boring Location
- Destroyed/Abandoned Monitoring Well
- Soldier Pile Location
- Note: Soldier Piles and other shoring system components (CF, Backs and Truss) are included in Soil Management Area 1
- Sample Location has PCE data exceeding 1.4 mg/kg above elevation zero and above elevation 0 feet
- Sample Location has PCE data exceeding 1.4 mg/kg above elevation zero but below planned excavation depth or air-property
- Area to be over-excavated below the minimum design elevation down to elevation 5 feet



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



**Soil Management Areas**  
 Contained-in Determination Request  
 Former American Linen Supply  
 700 Dexter Avenue North  
 Seattle, Washington



**From:** [Brian O'Neal](#)  
**To:** [Maeng, Byung \(ECY\)](#)  
**Cc:** [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [John Moshy](#); [Drew Graham](#); [Daniel Balbiani](#)  
**Subject:** FW: Draft Request for Contained-In Policy Determination for Shoring System Installation and Excavation Activities – American Linen Supply Co. – Dexter Ave Site  
**Date:** Wednesday, March 13, 2019 11:38:00 AM  
**Attachments:** [IAWP Figures 27 and 28 \(CVOCs in Groundwater\).pdf](#)

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Byung -

Thanks for your quick review of the information we provided. I have responded to your question below in red text. How would like us to proceed with finalizing the Draft Contained-In Determination Request Letter sent to you on March 6, 2019?

**Brian O'Neal, P.E.**

**PES Environmental, Inc.**

ph: 206-529-3980 x104

cell: 425-241-2627

---

**From:** Maeng, Byung (ECY) <[BMAE461@ECY.WA.GOV](mailto:BMAE461@ECY.WA.GOV)>

**Sent:** Tuesday, March 12, 2019 2:04 PM

**To:** Brian O'Neal <[boneal@pesenv.com](mailto:boneal@pesenv.com)>

**Cc:** Cardona-Marek, Tamara (ECY) <[TACA461@ECY.WA.GOV](mailto:TACA461@ECY.WA.GOV)>; Timm, Ronald W. (ECY) <[rtim461@ECY.WA.GOV](mailto:rtim461@ECY.WA.GOV)>; John Moshy <[john.moshy@biomedrealty.com](mailto:john.moshy@biomedrealty.com)>; Drew Graham <[dgraham@oacsvcs.com](mailto:dgraham@oacsvcs.com)>; Daniel Balbiani <[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)>

**Subject:** RE: Draft Request for Contained-In Policy Determination for Shoring System Installation and Excavation Activities – American Linen Supply Co. – Dexter Ave Site

Brian,

I have reviewed your contained-in determination request and the following are my comments/questions:

1. Approximately 127,100 tons of soils will be excavated. What is the basis of this calculation? The 127,100 tons of soil is the combined total for the soil-generating activities that are described in the CMMP. This includes approximately 2,400 tons of soil generated during the installation of the soldier piles, tie-backs, soil nails, and dewatering wells. The 2,400 tons was calculated based on the diameter of the various items times the design length and then the total volume of soil (approximately 1,360 cubic yards) converted to tons using a conversion factor of 1.76 tons/bank cubic yard (bcy). The remaining 124,700 tons is associated with the mass excavation of the property down to the design elevations shown on Figure 1 attached to our draft contained-in determination letter. We used AutoCAD to calculate this total volume (approximately 70,850 cubic yards) and then converted this to tons using the same 1.76 ton/bcy conversion factor.
2. Soils will be excavated down to NAVD elevation 0.7 feet in SMA-1 except several sections along the west property line and the east property line. Is my understanding correct? The mass excavation will extend as deep as 0.7 ft as shown on Figure 1. The soldier piles will extend down to depths ranging from 0 ft to -14.5 ft per the table included in Figure 1.
3. All the soil samples were collected above the NAVD elevation 0. Is it correct? All of the soil samples shown in Table 1 of the Contained-In Determination Request letter were above elevation 0 ft. There are additional soil samples below elevation 0 ft.
4. What are the groundwater elevation and flow direction? If soils will be excavated below the water table, groundwater sampling data must be reviewed. Groundwater flow is generally to

the east. There are four identified water bearing zones beneath the property: Shallow, Intermediate A, Intermediate B, and Deep. The excavation activities include all of the Shallow zone and the upper portion of the Intermediate A Zone. The depth to water varies seasonally but is generally 5 to 10 feet below the typical ground surface elevation (water table elevation ranging from approximately elevation 30 to 35 ft). As described in the CMMP, dewatering will be used throughout the excavation process and will ultimately lower the water level down to approximately elevation 0 ft. The attached Figures 27 and 28 from the Final Interim Action Work Plan (which were also included in Appendix C of the CMMP) show the 2018 groundwater monitoring results for wells in the Shallow and Intermediate A Zones.

5. What is your soil excavation and disposal schedule? Based on the current construction schedule, soil export will begin on or after April 1, 2019 and the last of the soil excavation will occur on November 26, 2019.

If you have any questions on the comments above, please call or email me.

Thanks,

Byung

*Byung Maeng, PE*

*Hazardous Waste and Toxics Reduction Program*

*Northwest Regional Office*

*(425) 649-7253, [bmae461@ecy.wa.gov](mailto:bmae461@ecy.wa.gov)*

---

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

**Sent:** Wednesday, March 06, 2019 5:07 PM

**To:** Maeng, Byung (ECY) <[BMAE461@ECY.WA.GOV](mailto:BMAE461@ECY.WA.GOV)>

**Cc:** Cardona-Marek, Tamara (ECY) <[TACA461@ECY.WA.GOV](mailto:TACA461@ECY.WA.GOV)>; Timm, Ronald W. (ECY) <[rtim461@ECY.WA.GOV](mailto:rtim461@ECY.WA.GOV)>; John Moshy <[john.moshy@biomedrealty.com](mailto:john.moshy@biomedrealty.com)>; Drew Graham <[dgraham@oacsvcs.com](mailto:dgraham@oacsvcs.com)>; Daniel Balbiani <[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)>

**Subject:** Draft Request for Contained-In Policy Determination for Shoring System Installation and Excavation Activities – American Linen Supply Co. – Dexter Ave Site

Byung –

Please find attached the text, table, and figures of the Request for Contained-In Policy Determination for Shoring System Installation and Excavation Activities for the American Linen Supply Co – Dexter Ave Site located at 700 Dexter Avenue North, Seattle, Washington. As we discussed in our February 20, 2019 meeting, we have submitted this request in draft for so that you can review provide us with any comments or questions that we can address in the final version. The request references the Final Draft Contaminated Media Management Plan; we sent you an FTP link to that document on February 21, 2019. Let me know if you need that link resent.

The start of the construction phase of the project is rapidly approaching, so let us know if there is anything we can do to assist with your review – we would be happy to meet with you once you have had time to review the attached request.

Thanks in advance for you assistance with this project.

**Brian O'Neal, P.E.**

**PES Environmental, Inc.**

ph: 206-529-3980 x104

cell: 425-241-2627

**IN-SITU SOIL REMEDIATION  
COMPLETION REPORT**

**FORMER AMERICAN LINEN SUPPLY CO. - DEXTER AVENUE SITE  
700 DEXTER AVENUE NORTH  
SEATTLE, WASHINGTON**

**Facility Site Identification Number: 3573  
Cleanup Site Identification Number: 12004**

*Prepared for*

BMR-Dexter LLC  
17190 Bernardo Center Drive  
San Diego, California 92128

*Prepared by:*

Environmental Chemical Corporation  
1746 Cole Boulevard, Suite 350  
Lakewood, Colorado 80401



November 2019

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**3.0 SOIL TREATMENT VOLUMES ..... 2**

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**LIST OF ATTACHMENTS**

**Attachment 1** Quantities of Soil Treated with Potassium Permanganate at Each Soil Management Area

## ACRONYMS AND ABBREVIATIONS

BMRD	BMR-Dexter, LLC
CIH	Certified Industrial Hygienist
CMMP	Contaminated Media Management Plan
CVOC	Chlorinated Volatile Organic Compound
ECC	Environmental Chemical Corporation
Ecology	Washington State Department of Ecology
EHS	Environment, Health & Safety
eV	Electron Volt
EZ	Exclusion Zone
IDW	Investigation-Derived Waste
ISB	In-Situ Blending
ISCO	In-Situ Chemical Oxidation
KMnO <sub>4</sub>	Potassium Permanganate
LLC	Limited Liability Corporation
mg/kg	milligrams per kilogram
OSHA	Occupational Safety and Health Administration (State of Washington)
PCE	Tetrachloroethene
PDR	Personal Data Ram
PES	PES Environmental, Inc.
PID	Photo Ionization Detector
PPE	Personal Protective Equipment
ppm	parts per million
SMA	Soil Management Area
SSHP	Site Safety and Health Plan
TCCO	Turner Construction Company
TITAN	Titan Earthwork, LLC

## 1.0 INTRODUCTION

This In-Situ Soil Remediation Completion Report (Report) has been prepared by Environmental Chemical Corporation for BMR-Dexter Limited Liability Corporation (BMRD) for work completed between May 13, 2019 and September 12, 2019 for the remediation of impacted soil at the Former American Linen Supply Co – Dexter Ave Site. The Site is located at 700 Dexter Avenue North, Seattle, Washington (Property). This Report summarizes the completed remediation services which Environmental Chemical Corporation and our local Subcontractor, Titan Earthwork LLC, (ECC) provided to BMRD at the Property.

The scope of work included performing in-situ blending (ISB) of soil contaminated with chlorinated volatile organic compounds (CVOCs), primarily tetrachloroethene (PCE), as treatment to significantly reduce or remove CVOCs. Additionally, ECC conducted field screening of post-ISB treated soil and managed the treated soils within the pre-defined Soil Management Areas (SMA). ECC also excavated test pits for the collection of additional vertical and areal delineation soil samples for field screening and laboratory analysis of CVOCs by others.

The field activities were completed in accordance with the Final Contaminated Media Management Plan (CMMP) (PES Environmental, Inc. [PES], 2019) and the Site Safety and Health Plan (SSHP), Former American Linen Supply Co. (ECC, 2019). The field activities included the ISB treatment of contaminated soil in three areas on the Property, designated as SMA-2, SMA-3 and SMA-4. The soil within each SMA was treated in the areas where the PCE concentrations exceeded 14 milligrams per kilogram (mg/kg) to reduce the CVOC concentrations for subsequent off-site disposal by others, as detailed in the CMMP (PES, 2019).

The CVOC contaminated soil was treated via ISB with potassium permanganate (KMnO<sub>4</sub>), a chemical oxidant, to reduce CVOCs in soil to concentrations at or below the *contained-in* criteria to meet the definition of the Washington State Department of Ecology (Ecology) “*contained-in policy*”. This allowed the soil to be disposed of as a solid waste. The CVOC concentrations that Ecology used to determine if soil meets the *contained-in* criteria are as follows:

- Tetrachloroethene - 14 mg/kg
- Trichloroethene - 10 mg/kg
- Cis 1,2-Dichloroethene - 160 mg/kg
- Vinyl Chloride - 0.67 mg/kg

The ISB soil treatment was completed using a granulated powder (RemOx® S In-Situ Chemical Oxidation [ISCO] Reagent) provided by CARUS Corporation. RemOx® S ISCO Reagent is a strong oxidizer (Class 5.1) consisting of potassium permanganate (KMnO<sub>4</sub>), which has been specifically manufactured for environmental applications such as remediation of soils (see ECC, 2019b for additional chemical information on the amendment used for treatment).

## 2.0 FIELD ACTIVITIES

ECC mobilized to the Property on May 13, 2019 to begin the required field activities for the ISB treatment of CVOC contaminated soil in the SMAs. The field activities which ECC completed were as follows:

1. Excavation of test pits within the SMAs. ECC excavated test pits, which were sampled and analyzed by PES. PES used the analytical results of the test pit soil sampling to bound/delineate the ISB soil treatment areas, including extending the boundaries of the ISB soil treatment, as dictated by soil sample analytical results.

2. ISB of soil with  $\text{KMnO}_4$  by ECC was conducted at the SMAs within the designated ISB soil treatment boundaries, determined by PES soil sampling, in accordance with the following reports:
  - a. Final CMMP (PES, 2019)
  - b. Technical Memorandum: Bench Scale Testing of In-Situ Blending of Potassium Permanganate into Tetrachloroethene Contaminated Soil (ECC, 2019a)
  - c. Final SSHP (ECC, 2019b)
3. Breathing zone vapor monitoring at the SMA Exclusion Zone (EZ) perimeter and within the EZ (i.e work zone) during ISB soil treatments and test pitting for volatile organic vapors in the work zone using a photoionization detector (PID).
4. Dust monitoring for  $\text{KMnO}_4$  dust/mist during ISB soil treatment using portable dust monitors within the EZ and at the EZ perimeter.
5. Collection of at least two post-ISB confirmation soil samples for on-site field screening. Sample locations were chosen based upon historical data and locations of off-gassing PCE during ISB soil treatment. PCE concentrations in soil were tested on-site using the AQR Color-Tec Field PCE Test Kit (using 133LL, 133L, or 133M Gastec tubes) to provide real-time PCE results.
6. Collection, by PES, of post-ISB soil treatment confirmation soil samples for analysis by an off-site Ecology certified laboratory in accordance with the CMMP collection frequency.

ECC used the AQR Color-Tec field screening results to determine if further treatment was necessary and, if not necessary, to recommend collection of post-ISB soil treatment confirmation samples, by PES, to be analyzed by the off-site laboratory. Post-ISB treatment confirmation soil samples, analyzed by the off-site laboratory, were used to determine if ISB treatment successfully remediated CVOC concentrations in soil to at or below the *contained-in* criteria. Off-site analytical results were used to determine the disposition of post-ISB treated SMA soil.

### 3.0 SOIL TREATMENT VOLUMES

A total of 2,293 cubic yards of soil was successfully treated to achieve the *contained-in* criteria of the CVOCs listed in **Section 1** of this Report. A summary of the quantities of soil treated with potassium permanganate at each SMA is provided in **Table 1**, located in **Attachment 1**. Once the off-site laboratory analytical results indicated that the post-ISB treated soil met the *contained-in* criteria, it was excavated from each of the SMAs and disposed of as non-hazardous material at an Ecology approved off-site facility by BMRD.

A total of 94,815 pounds (47.4 tons) of  $\text{KMnO}_4$  amendment was applied, wetted, and mechanically mixed into the soil within the SMA designated ISB soil treatment boundaries to treat the soil. With the exception of one ISB soil treatment, all contaminated soil within the SMA designated treatment boundaries was treated with one application of  $\text{KMnO}_4$  amendment. Only one ISB soil treatment at SMA-2 at elevation eight feet to elevation five feet required an additional ISB soil treatment to achieve the *contained-in* criteria for CVOC concentrations in the soil.

All of the  $\text{KMnO}_4$  delivered to the Property was used to treat soil at the SMAs. As a result, no excess chemical was left at the Property.

### 4.0 ACCIDENT REPORTING

There were no ECC job-related injuries, illnesses, vehicular or other accidents, property loss or damage associated with the work performed by ECC for the duration of ECC's work on the Project. ECC's Daily

Quality Control Reports, which ECC prepared to document the work completed on the project, were provided on a weekly basis as the work progressed.

## **5.0 HEALTH AND HAZARD MONITORING**

As specified in detail in the Final SSHP (ECC, 2019b), health and hazard monitoring were completed for the ECC site workers for the duration of the field activities completed by ECC. This section summarizes the monitoring program.

### **5.1 Worker Exposure and Work Zone Air Monitoring**

As detailed in the Final SSHP, work zone air monitoring was conducted within the EZ during the field activities performed by ECC including personal breathing zone monitoring of the heavy equipment operator. CVOCs were monitored in real-time using a MiniRAE 3000 PID using a 10.6 electron volt (eV) lamp and KMnO<sub>4</sub> dust was monitored in real-time using Thermo Personal Data Ram (PDR) and AeroTrak dust monitors.

In accordance with the Final CMMP Air Monitoring Plan, exceedance of 5 ppm longer than 1-minute in duration required respiratory protection and an exceedance of 20 ppm longer than 1-minute in duration required a work stoppage. ECC personnel within the EZ wore a full-face respirator during ISB soil treatment and test-pitting regardless of the monitored breathing zone CVOC level in order to avoid sudden exposure to CVOC vapors. EZ CVOC breathing zone air was monitored and intrusive work capable of generating vapors (i.e mixing soil, excavations) was immediately stopped if the PID readings exceeded allowable levels. This was done to avoid reaching the Final CMMP action levels and to protect site workers. At no time did breathing zone levels exceed the Final CMMP action levels.

During initial ISB soil treatment with KMnO<sub>4</sub>, ECC collected personal breathing zone samples for CVOC using 3M Passive diffusion monitors (3500/3520) in accordance with the Final SSHP. The worker exposure monitoring results were reviewed by the ECC Environment, Health and Safety (EHS) Manager and consulting Certified Industrial Hygienist (CIH). No exceedances of the established occupational exposure limits were reported by the 3M passive devices.

Dust levels recorded by the PDR and AeroTrak were evaluated by the ECC EHS and CIH and were determined to consistently be below ECC Final SSHP action levels. As a result, dust monitoring was determined to be unnecessary and was discontinued in late June 2019.

### **5.2 Work Zone Perimeter Air Monitoring**

ECC also monitored the perimeter of the EZ in the down wind direction using a MiniRAE 3000 PID with 10.6 eV lamp for CVOC vapors and PDR and AeroTrak for KMnO<sub>4</sub> dust. CVOC breathing zone air was monitored at the perimeter of the EZ and intrusive work capable of generating vapors (i.e mixing soil, excavations) was immediately stopped if the PID readings exceeded 5 ppm for longer than 20 seconds. This was done to avoid reaching the Final CMMP action levels and to protect all site workers. At no time did breathing zone levels exceed the Final CMMP action levels.

Dust levels recorded by the PDR and AeroTrak were evaluated by the ECC EHS and CIH and were determined to consistently be below ECC Final SSHP action levels. As a result, dust monitoring was determined to be unnecessary and discontinued in late June 2019.

## 6.0 INVESTIGATION-DERIVED WASTE MANAGEMENT

ECC ensured the proper disposal of any investigation-derived waste (IDW) generated by the tasks carried out by ECC, as follows:

- Soil generated from the AQR Color-Tec screening was placed back into the SMA ISB soil treatment zone;
- The aqueous liquid waste from the decontamination of work boots and decontamination water from cleaning ISB heavy equipment was released into the SMA ISB soil treatment zone;
- All solid waste, including refuse, used PPE and other non-hazardous solid waste generated by ECC was collected, containerized and properly disposed of off-site, in accordance with the CMMP (PES, 2019).

## 7.0 DEMOBILIZATION

Upon the successful completion of the ISB soil treatment at each SMA, ECC demobilized from the Property by September 12, 2019. To prepare for demobilization, ECC decontaminated the heavy equipment and arranged for the removal of all heavy equipment and the Conex Storage Container used for the secure storage of the  $\text{KMnO}_4$ .

## 8.0 REFERENCES

- Environmental Chemical Corporation (ECC). 2019a. *Technical Memorandum: Bench Scale Testing of In-Situ Blending of Potassium Permanganate into Tetrachloroethene Contaminated Soil, Former American Linen Supply Co - Dexter Ave Site 700 Dexter Avenue North, Seattle, Washington*. Prepared for TCCO. 18, April.
- ECC. 2019b. *Site Safety and Health Plan (SSHP), Former American Linen Supply Co - Dexter Ave Site 700 Dexter Avenue North, Seattle, Washington*. Prepared for TCCO. Revision 0. May.
- PES. 2019. *Final Contaminated Media Management Plan (CMMP), American Linen Supply Co-Dexter Avenue Site 700 Dexter Avenue North Seattle, Washington*. Report Prepared for BMR-Dexter LLC. 12 March. <https://fortress.wa.gov/ecy/gsp/CleanupSiteDocuments.aspx?csid=12004>

**ATTACHMENT 1**

**TABLE**

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**Table 1**  
**Quantities of Soil Treated with Potassium Permanganate**  
**at Each Soil Management Area**

Treatment Date	Soil Management Area (SMA)	Elevation Top (ft msl)	Elevation Bottom (ft msl)	Quantity of Treated Soil (cy)	Additional Quantity of Treated Soil (cy)
<b>SMA-2</b>					
6/10/2019	SMA-2	29	27	117	0
6/19/2019	SMA-2	27	25	117	0
6/25/2019	SMA-2	25	23	117	0
7/3/2019	SMA-2	23	21	117	4
7/10/2019	SMA-2	21	19	117	4
7/12/2019	SMA-2	19	17	117	4
7/19/2019	SMA-2	17	15	117	0
7/31/2019	SMA-2	15	13	69	0
8/5/2019	SMA-2	13	11	69	0
8/12/2019	SMA-2	11	8	103	0
8/15/2019	SMA-2	8	5	103	5
<b>SMA-3</b>					
5/20/2019	SMA-3	35	33	33	15
6/5/2019	SMA-3	33	31	33	0
6/7/2019	SMA-3	31	29	33	5
6/17/2019	SMA-3	31.5	29	0	79
6/26/2019	SMA-3	29	25	87	55
7/2/2019	SMA-3	25	22.5	50	19
7/16/2019	SMA-3	22.5	19	62	24
8/2/2019	SMA-3	22	19	50	50
8/7/2019	SMA-3	19	17	28	43
8/13/2019	SMA-3	17	15	28	0
8/16/2019	SMA-3	15	12.5	28	6
9/7/2019	SMA-3 (Area 3)	13	9	0	66
9/10/2019	SMA-3 (Area 3)	13	9	0	66
9/4/2019	SMA-3 (Areas 1 and 2)	14	9.5/10.5	0	88
<b>SMA-4</b>					
6/18/2019	SMA-4	27.5	26	5	0
6/20/2019	SMA-4	26	24	5	5
6/24/2019	SMA-4	24	22.5	5	3
8/22/2019	SMA-4	12.5	10	41	10
8/26/2019	SMA-4	10	7.5	41	38
9/3/2019	SMA-4	7.5	5	41	38
<b>Total Quantity Treated Soil (cy):</b>					<b>2,293</b>

Notes:  
ft msl = Feet, mean sea level  
cy = cubic yards

**From:** [Maeng, Byung \(ECY\)](#)  
**To:** [Brian O'Neal](#)  
**Cc:** [Daniel Balbiani](#); [Drew Graham](#); [John Moshy](#); [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#)  
**Subject:** RE: Former American Linen Supply Company - Request for Increase in Contained-In Soil Quantity  
**Date:** Wednesday, October 2, 2019 2:21:27 PM

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Brian,

Thanks for submitting an additional information I requested this morning.

Based on the information in your October 1, 2019 letter and submitted this morning, I believe that soil excavated from the additional depths meets the contained-in determination criteria. Therefore, the quantity of soil managed under the March 18, 2019 contained-in determination will be increased to 142,700 tons from the originally approved 127,100 tons.

If you have any questions on this approval, please call or email me.

Thanks,

Byung

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

---

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

**Sent:** Tuesday, October 1, 2019 11:28 AM

**To:** Maeng, Byung (ECY) <[BMAE461@ECY.WA.GOV](mailto:BMAE461@ECY.WA.GOV)>

**Cc:** Daniel Balbiani <[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)>; Drew Graham <[dgraham@oacsvcs.com](mailto:dgraham@oacsvcs.com)>; John Moshy <[john.moshy@biomedrealty.com](mailto:john.moshy@biomedrealty.com)>; Cardona-Marek, Tamara (ECY) <[TACA461@ECY.WA.GOV](mailto:TACA461@ECY.WA.GOV)>; Timm, Ronald W. (ECY) <[rtim461@ECY.WA.GOV](mailto:rtim461@ECY.WA.GOV)>

**Subject:** Former American Linen Supply Company - Request for Increase in Contained-In Soil Quantity

Byung –

Per my phone message to you last Friday, find attached a brief letter requesting an increase in the total quantity of soil that can be managed under the March 18, 2019 Contained-In Determination for the Former American Linen Supply Company interim action.

Let me know if you have any questions or need additional information.

**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: American Linen Tiebacks from Soldier Piles E17 through E22 Contained in Request  
**Date:** Wednesday, June 26, 2019 7:29:04 AM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 2 tons of soil from SMA 1 under the contained-in determination.

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

**From:** Daniel Balbiani [mailto:dbalbiani@pesenv.com]  
**Sent:** Tuesday, June 25, 2019 6:38 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) <JSmith@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:** American Linen Tiebacks from Soldier Piles E17 through E22 Contained in Request

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 **2 tons** of soil generated during installing tie backs associated with soldier piles E17 through E22 that is 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
1	NA	E17-21-TB-36	06/24/19	<0.257 U	<0.206 U	<0.206 U	<0.257 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. <div style="text-align: center;"> </div> 4. Sample naming convention:							

Soil from the identified tie backs (refer to the attached Figure 4 from the CMMP for locations) has been stockpiled separately from other contained-in soils pending your review of these analytical results. This soil was generated from drilling and installing tiebacks near soldier piles E17 through E22 at 34.5 foot elevation. 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.

**Daniel Balbani, P.E.**

Principal Engineer



**PES Environmental, Inc.**  
Engineering & Environmental Services

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(425) 466-0770 cell

[dbalbani@pesenv.com](mailto:dbalbani@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:** American Linen Tiebacks from Soldier Piles E17 through E22 Contained in Request  
**Date:** Tuesday, June 25, 2019 6:38:13 PM  
**Attachments:** [image001.png](#)  
[Rpt\\_1906304\\_American\\_Linen\\_Final\\_v2.pdf](#)  
[CMMP Figure 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 **2 tons** of soil generated during installing tie backs associated with soldier piles E17 through E22 that is 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
1	NA	E17-21-TB-36	06/24/19	<0.257 U	<0.206 U	<0.206 U	<0.257 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. <div style="text-align: center;"> <p>AA-BB-CC-DD            Elevation            Sample ID            Lift            Area</p> </div> 4. Sample naming convention:							

Soil from the identified tie backs (refer to the attached Figure 4 from the CMMP for locations) has been stockpiled separately from other contained-in soils pending your review of these analytical results. This soil was generated from drilling and installing tiebacks near soldier piles E17 through E22 at 34.5 foot elevation. 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.

**Daniel Balbiani, P.E.**

Principal Engineer



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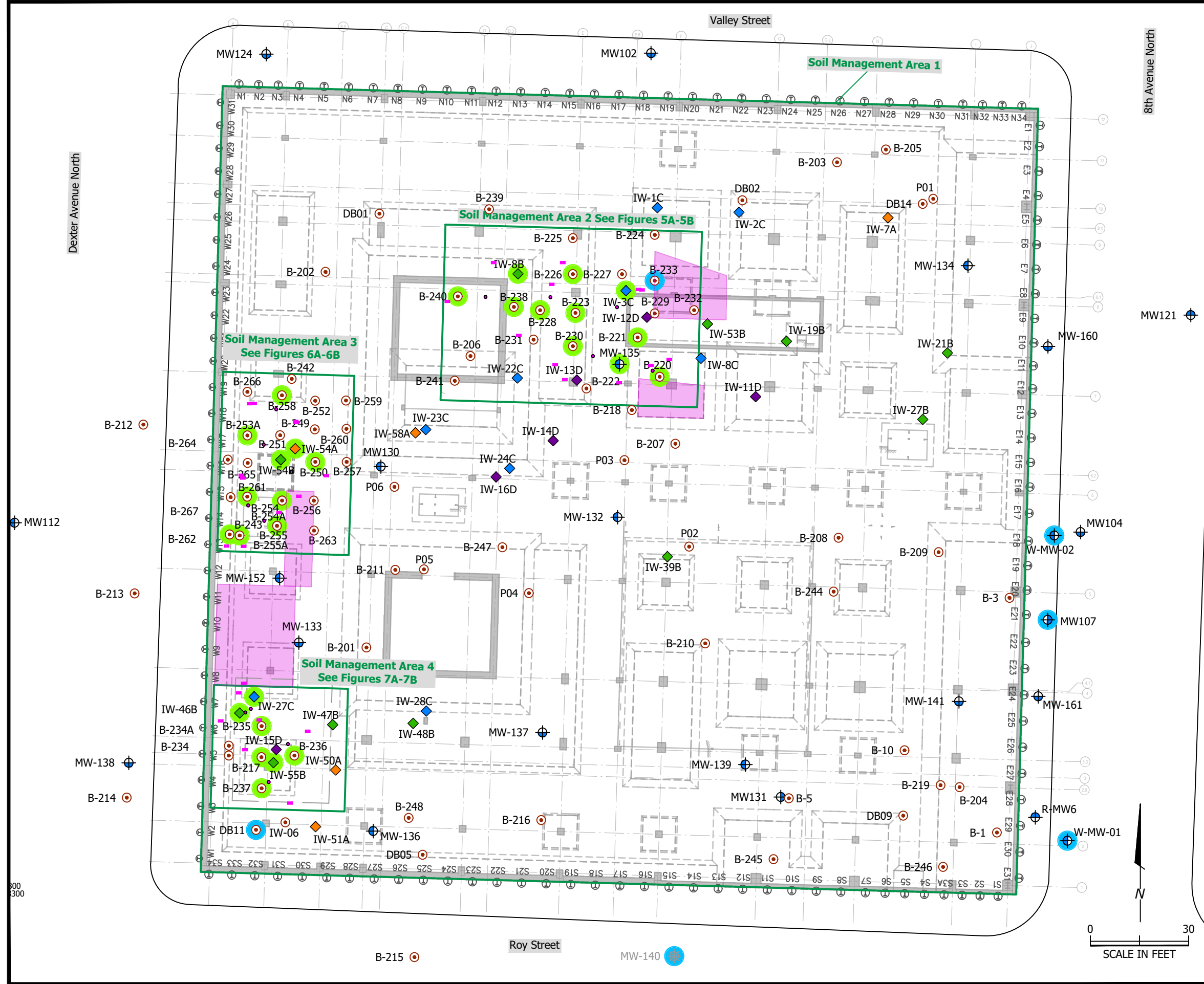
[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)

Dexter Avenue North

Valley Street

8th Avenue North

- Explanation**
- Limits of Soil Management Areas
  - 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
  - MW-140 ⊕ Destroyed/Abandoned Monitoring Well
  - ⊙ Soldier Pile Location
  - Note: Soldier Piles and other shoring system components (tie backs and soil nails) are included in Soil Management Area 1
  - Sample Location has PCE data exceeding 14 mg/kg above elevation zero and above elevation 0 feet
  - Sample Location has PCE data exceeding 14 mg/kg above elevation zero but below planned excavation depth or off-property
  - Area to be over-excavated below the minimum design elevation down to elevation 5 feet



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



**Soil Management Areas**  
 Contaminated Media Management Plan  
 Former American Linen Supply  
 700 Dexter Avenue North  
 Seattle, Washington

FIGURE  
**4**

**Table E-3-1**  
**SMA-1 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)			
		PCE 14	TCE 10	cDCE 160	VC 0.67
01-108-33.5 <sup>1</sup>	6/13/2019	<b>0.11</b>	<b>0.0205 J</b>	0.0222 U	0.0277 U
01-109-34 <sup>1</sup>	6/13/2019	<b>0.0128 J</b>	<b>0.0519</b>	0.138	0.0247 U
01-110-31 <sup>1</sup>	6/13/2019	<b>0.0295 U</b>	<b>0.0129 J</b>	0.0169 J	0.0295 U
N6W23-5.5 <sup>2</sup>	9/20/2019	<b>25.9</b>	<b>0.174</b>	0.215 U	0.269 U
N7W23-5.5 <sup>2</sup>	9/20/2019	<b>117</b>	<b>0.271 U</b>	0.271 U	0.339 U
N8W23-5.5 <sup>2</sup>	9/20/2019	<b>0.269 U</b>	<b>0.237 U</b>	0.237 U	0.269 U
SP-N8W23 <sup>3</sup>	9/20/2019	<b>17.1</b>	<b>0.201 U</b>	0.201 U	0.251 U
DNAPL-092019 <sup>3</sup>	9/20/2019	<b>758,000</b>	<b>32.5</b>	16.3 U	20.4 U
W23N5-6 <sup>2</sup>	9/23/2019	<b>0.244 U</b>	<b>0.196 U</b>	0.196 U	0.244 U
W24N6-6 <sup>2</sup>	9/23/2019	<b>0.253 U</b>	<b>0.202 U</b>	0.202 U	0.253 U
W22N6-6 <sup>2</sup>	9/23/2019	<b>2010</b>	<b>0.208 U</b>	0.208 U	0.260 U
W23N6-6 <sup>2</sup>	9/23/2019	<b>13.3</b>	<b>0.204 U</b>	0.204 U	0.255 U
W22N6-4 <sup>2</sup>	9/23/2019	<b>968</b>	<b>0.103</b>	0.186 U	0.233 U
W24N6-5 <sup>2</sup>	9/23/2019	<b>18.6</b>	<b>0.315 U</b>	0.252 U	0.252 U
W22N6-5 <sup>2</sup>	9/23/2019	<b>59.7</b>	<b>0.247 U</b>	0.247 U	0.309 U
Stockpile-1-092319 <sup>3</sup>	9/23/2019	<b>107</b>	<b>0.180 U</b>	0.180 U	0.225 U
SUMP-5-Soil <sup>3</sup>	5/29/2019	<b>8640</b>	<b>1270</b>	1350	38.7 J
SUMP-5-Concrete <sup>3</sup>	5/29/2019	<b>1480</b>	<b>52.7</b>	68.2	5.51 U

Notes:  
PCE = Tetrachloroethene  
TCE = Trichloroethene  
cDCE = Cis 1,2-Dichloroethene  
VC = Vinyl Chloride  
1. Sample represents soil excavated and disposed per the CID  
2. Sample represents soil left in place  
3. Material represented by sample removed and disposed on as a dangerous waste  
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-3-2

**SMA-1 Soldier Pile and Tie-Back Soil Results  
American Linen Supply Co Dexter Ave Site  
700 Dexter Avenue North, Seattle, Washington**

Sample ID	Soldier Pile Location	Sample Date	Concentration (mg/kg)							
			PCE		TCE		cDCE		VC	
<b>Contained-In Criteria</b>			<b>14</b>		<b>10</b>		<b>160</b>		<b>0.67</b>	
W-9-28	W9	4/3/19	<b>1.45</b>		0.270	U	0.270	U	0.337	U
W-9-13	W9	4/3/19	0.255	U	0.204	U	0.204	U	0.255	U
W7-33	W7	4/4/19	<b>1.61</b>		0.204	U	0.204	U	0.255	U
W7-14	W7	4/4/19	0.275	U	0.220	U	0.220	U	0.275	U
W5-9	W5	4/4/19	<b>0.120</b>	<b>J</b>	0.197	U	0.197	U	0.246	U
W5-(-11)	W5	4/4/19	<b>0.431</b>		0.201	U	0.201	U	0.251	U
W10-33	W10	4/4/19	0.278	U	0.222	U	0.222	U	0.278	U
W12-29	W12	4/5/19	0.221	U	0.177	U	0.177	U	0.221	U
W6-38	W6	4/5/19	0.280	U	0.224	U	0.224	U	0.280	U
W6-(-2)	W6	4/5/19	0.281	U	0.225	U	0.225	U	0.281	U
W4-28	W4	4/5/19	0.244	U	0.195	U	0.195	U	0.244	U
W4-8	W4	4/5/19	0.314	U	0.251	U	0.251	U	0.314	U
W14-36	W14	4/5/19	0.239	U	0.191	U	0.191	U	0.239	U
W8-28	W8	4/8/19	<b>0.419</b>		0.231	U	0.231	U	0.289	U
W8-8	W8	4/8/19	<b>1.130</b>		<b>0.105</b>	<b>J</b>	<b>0.433</b>		0.238	U
W3-38	W3	4/8/19	0.225	U	0.180	U	0.180	U	0.225	U
W3-8	W3	4/8/19	0.208	U	0.166	U	0.166	U	0.208	U
W13-28	W13	4/9/19	<b>0.289</b>		0.173	U	0.173	U	0.217	U
W13-(-2)	W13	4/9/19	<b>1.190</b>		<b>0.342</b>		<b>0.110</b>	<b>J</b>	0.229	U
E17-34.5	E17	4/19/19	0.232	U	0.186	U	0.186	U	0.232	U
E17-14.5	E17	4/19/19	0.232	U	0.186	U	0.186	U	0.232	U
E19-35	E19	4/19/19	<b>0.0989</b>	<b>J</b>	0.198	U	0.198	U	0.248	U
E19-25	E19	4/19/19	0.224	U	0.179	U	0.179	U	0.224	U
E21-20	E21	4/22/19	0.263	U	0.210	U	0.210	U	0.263	U
E21-2	E21	4/22/19	<b>0.169</b>	<b>J</b>	0.177	U	<b>0.155</b>	<b>J</b>	0.221	U
E21-(-2)	E21	4/22/19	<b>0.277</b>		0.209	U	<b>0.642</b>		0.261	U
E29-36.5	E29	4/23/19	0.272	U	0.217	U	0.217	U	0.272	U
E29-26.5	E29	4/23/19	<b>0.123</b>	<b>J</b>	0.166	U	0.166	U	0.207	U
E31-37	E31	4/24/19	0.220	U	0.176	U	0.176	U	0.220	U
E31-27	E31	4/24/19	0.231	U	0.185	U	0.185	U	0.231	U
E20-23	E20	4/24/19	0.249	U	0.199	U	0.199	U	0.249	U
E20-5	E20	4/24/19	<b>0.182</b>	<b>J</b>	0.169	U	<b>0.253</b>		0.212	U
E22-25	E22	4/25/19	0.265	U	0.205	U	0.205	U	0.256	U
E22-11	E22	4/25/19	<b>0.688</b>		<b>0.349</b>		<b>0.265</b>		0.222	U
E28-16.5	E28	4/26/19	<b>1.78</b>		<b>0.143</b>	<b>J</b>	0.169	U	0.211	U
E28-(-3.5)	E28	4/26/19	0.215	U	0.172	U	0.172	U	0.215	U
E30-24.5	E30	4/26/19	<b>0.163</b>	<b>J</b>	0.199	U	0.199	U	0.249	U
E30-(-1.5)	E30	4/26/19	0.287	U	0.230	U	0.230	U	0.287	U
E22/28/29-TB-36	E22/28/29 Tie Back	5/31/19	0.464	U	0.371	U	0.371	U	0.464	U
E30/31-TB-36	E30/31 Tie Back	5/24/19	<b>0.155</b>		0.183	U	0.183	U	0.229	U
E17-21-TB-36	E17-21-TB-36	6/24/19	<0.257	U	<0.206	U	<0.206	U	<0.257	U

Table E-3-2

**SMA-1 Soldier Pile and Tie-Back Soil Results  
American Linen Supply Co Dexter Ave Site  
700 Dexter Avenue North, Seattle, Washington**

Sample ID	Soldier Pile Location	Sample Date	Concentration (mg/kg)			
			PCE	TCE	cDCE	VC
<b>Contained-In Criteria</b>			<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
E28-31-TB-24.5	E28-31-TB-24.5	08/07/19	<b>0.859</b>	0.207 U	0.207 U	0.259 U
E17-22-TB-24.5	E17-22-TB-24.5	8/16/19	<b>0.430</b>	0.216 U	0.216 U	0.270 U

Notes:

VOCs analyzed by EPA Method 8260C

Detected results shown in bold.

Detected results above the screening level are highlighted in gray.

cDCE = cis-1,2-dichloroethene

PCE = perchloroethylene (tetrachloroethene)

TCE = trichloroethene

VC = vinyl chloride

WAC = Washington Administrative Code

- = Not analyzed or results not available

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.



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**PES Environmental, Inc.**

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

**RE: American Linen**  
**Work Order Number: 1905405**

May 30, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 2 sample(s) on 5/29/2019 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



Date: 05/30/2019

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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1905405

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1905405-001	SUMP-5-Soil	05/29/2019 3:12 PM	05/29/2019 3:51 PM
1905405-002	SUMP-5-Concrete	05/29/2019 3:10 PM	05/29/2019 3:51 PM

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**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:** 5/29/2019 3:12:00 PM

**Project:** American Linen

**Lab ID:** 1905405-001

**Matrix:** Soil

**Client Sample ID:** SUMP-5-Soil

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

Batch ID: 24754

Analyst: KT

Vinyl chloride	38.7	45.0	JD	mg/Kg-dry	500	5/29/2019 11:20:57 PM
cis-1,2-Dichloroethene	1,350	36.0	D	mg/Kg-dry	500	5/29/2019 11:20:57 PM
Trichloroethene (TCE)	1,270	36.0	D	mg/Kg-dry	500	5/29/2019 11:20:57 PM
Tetrachloroethene (PCE)	8,640	450	D	mg/Kg-dry	5000	5/30/2019 8:19:02 AM
Surr: Dibromofluoromethane	76.1	56.5 - 129	D	%Rec	500	5/29/2019 11:20:57 PM
Surr: Toluene-d8	83.7	64.5 - 151	D	%Rec	500	5/29/2019 11:20:57 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	54.8 - 168	D	%Rec	500	5/29/2019 11:20:57 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51780

Analyst: PA

Percent Moisture	55.7	0.500		wt%	1	5/29/2019 4:38:57 PM
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**Client:** PES Environmental, Inc.

**Collection Date:** 5/29/2019 3:10:00 PM

**Project:** American Linen

**Lab ID:** 1905405-002

**Matrix:** Solid

**Client Sample ID:** SUMP-5-Concrete

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

Batch ID: 24754

Analyst: KT

Vinyl chloride	ND	5.51	D	mg/Kg-dry	200	5/29/2019 10:50:09 PM
cis-1,2-Dichloroethene	68.2	4.41	D	mg/Kg-dry	200	5/29/2019 10:50:09 PM
Trichloroethene (TCE)	52.7	4.41	D	mg/Kg-dry	200	5/29/2019 10:50:09 PM
Tetrachloroethene (PCE)	1,480	27.6	D	mg/Kg-dry	1000	5/30/2019 7:48:08 AM
Surr: Dibromofluoromethane	78.9	56.5 - 129	D	%Rec	200	5/29/2019 10:50:09 PM
Surr: Toluene-d8	83.6	64.5 - 151	D	%Rec	200	5/29/2019 10:50:09 PM
Surr: 1-Bromo-4-fluorobenzene	96.2	54.8 - 168	D	%Rec	200	5/29/2019 10:50:09 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51780

Analyst: PA

Percent Moisture	16.6	0.500		wt%	1	5/29/2019 4:38:57 PM
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**Work Order:** 1905405  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>LCS-24754</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>5/29/2019</b>	RunNo: <b>51784</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>24754</b>					Analysis Date: <b>5/29/2019</b>	SeqNo: <b>1021590</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.844	0.0250	1.000	0	84.4	43.4	151				
cis-1,2-Dichloroethene	0.926	0.0200	1.000	0	92.6	71.3	135				
Trichloroethene (TCE)	0.755	0.0200	1.000	0	75.5	65.5	137				
Tetrachloroethene (PCE)	0.874	0.0250	1.000	0	87.4	52.7	150				
Surr: Dibromofluoromethane	1.14		1.250		91.0	56.5	129				
Surr: Toluene-d8	1.08		1.250		86.7	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	54.8	168				

Sample ID <b>MB-24754</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>5/29/2019</b>	RunNo: <b>51784</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>24754</b>					Analysis Date: <b>5/29/2019</b>	SeqNo: <b>1021591</b>				
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	0.956		1.250		76.4	56.5	129				
Surr: Toluene-d8	1.44		1.250		115	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.4	54.8	168				

Sample ID <b>1905395-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>5/29/2019</b>	RunNo: <b>51784</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>24754</b>					Analysis Date: <b>5/29/2019</b>	SeqNo: <b>1021584</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0260						0	0	30	
cis-1,2-Dichloroethene	ND	0.0208						0	0	30	
Trichloroethene (TCE)	ND	0.0208						0	0	30	
Tetrachloroethene (PCE)	ND	0.0260						0	0	30	
Surr: Dibromofluoromethane	0.900		1.298		69.4	56.5	129		0		
Surr: Toluene-d8	1.44		1.298		111	64.5	151		0		

**Work Order:** 1905405  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>1905395-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/29/2019</b>	RunNo: <b>51784</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24754</b>	Analysis Date: <b>5/29/2019</b>	SeqNo: <b>1021584</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	1.34		1.298		103	54.8	168		0		
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Sample ID <b>1905391-003BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/29/2019</b>	RunNo: <b>51784</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24754</b>	Analysis Date: <b>5/29/2019</b>	SeqNo: <b>1021578</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.07	0.0262	1.049	0	102	43.6	150				
cis-1,2-Dichloroethene	0.968	0.0210	1.049	0	92.3	58.6	136				
Trichloroethene (TCE)	1.08	0.0210	1.049	0	103	61.6	147				
Tetrachloroethene (PCE)	1.04	0.0262	1.049	0	99.5	35.6	158				
Surr: Dibromofluoromethane	1.12		1.312		85.3	56.5	129				
Surr: Toluene-d8	1.28		1.312		97.6	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.31		1.312		99.9	54.8	168				

Sample ID <b>1905391-003BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/29/2019</b>	RunNo: <b>51784</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24754</b>	Analysis Date: <b>5/29/2019</b>	SeqNo: <b>1021579</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.08	0.0262	1.049	0	102	43.6	150	1.069	0.615	30	
cis-1,2-Dichloroethene	1.17	0.0210	1.049	0	111	58.6	136	0.9684	18.5	30	
Trichloroethene (TCE)	1.04	0.0210	1.049	0	99.4	61.6	147	1.084	3.89	30	
Tetrachloroethene (PCE)	1.20	0.0262	1.049	0	115	35.6	158	1.044	14.3	30	
Surr: Dibromofluoromethane	1.13		1.312		86.0	56.5	129		0		
Surr: Toluene-d8	1.53		1.312		116	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.32		1.312		101	54.8	168		0		



**Work Order:** 1905405  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID <b>1905405-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>5/29/2019</b>	RunNo: <b>51780</b>					
Client ID: <b>SUMP-5-Soil</b>	Batch ID: <b>R51780</b>				Analysis Date: <b>5/29/2019</b>	SeqNo: <b>1021508</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	57.3	0.500						55.75	2.70	20	

Client Name: <b>PES</b>	Work Order Number: <b>1905405</b>
Logged by: <b>Clare Griggs</b>	Date Received: <b>5/29/2019 3:51:00 PM</b>

**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

**Samples 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   
MeOH
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:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Sample	28.4

\* 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: 5/29/19 Page: 1 of 1

Project Name: AMERICAN LUMEN

Project No: 1413.001.05.402

Collected by: R. McLAUGHLIN

Location: SEATTLE WA

Report To (PM): BRIAN ONEAL

PM Email: BSNEAL@PESENV.COM

Laboratory Project No (Internal): 1905405

Special Remarks: 2-1 HR TURN - EOD 5/30/19

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 (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
1 <u>SUMP-5-SOIL</u>	<u>5/29/19</u>	<u>1512</u>	<u>S</u>	<input checked="" type="checkbox"/>													<u>HIGH CONCENTRATION SAMPLE</u>
2 <u>SUMP-5-CONCRETE</u>	<u>X</u>	<u>1510</u>	<u>O</u>	<input checked="" type="checkbox"/>													
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

*R McLaughlin*

\*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): MICA-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

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 R McLaughlin Date/Time 5/29/19 1551

Received [Signature] Date/Time 5/29/19 1551

Received [Signature] Date/Time 5/29/19 1551



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: 1906154**

June 14, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 4 sample(s) on 6/13/2019 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***  
***Gasoline by NWTPH-Gx***  
***Mercury by EPA Method 7471***  
***Sample Moisture (Percent Moisture)***  
***Total Metals by EPA Method 6020B***  
***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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**  
Karsten Springstead  
Kim Vik

DoD/ELAP Certification #L 17-135, ISO/IEC 17025:2005  
ORELAP Certification: WA 100009-007 (NELAP Recognized)

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906154

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**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
1906154-001	01-108-33.5	06/13/2019 12:30 PM	06/13/2019 2:56 PM
1906154-002	01-109-34	06/13/2019 12:40 PM	06/13/2019 2:56 PM
1906154-003	01-110-31	06/13/2019 1:54 PM	06/13/2019 2:56 PM
1906154-004	TB-061319	06/05/2019 4:00 PM	06/13/2019 2:56 PM

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**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:** 6/13/2019 12:30:00 PM

**Project:** American Linen

**Lab ID:** 1906154-001

**Matrix:** Soil

**Client Sample ID:** 01-108-33.5

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 24909

Analyst: DW

Diesel (Fuel Oil)	4.65	22.0	J	mg/Kg-dry	1	6/14/2019 12:52:57 AM
Heavy Oil	ND	54.9		mg/Kg-dry	1	6/14/2019 12:52:57 AM
Surr: 2-Fluorobiphenyl	83.6	50 - 150		%Rec	1	6/14/2019 12:52:57 AM
Surr: o-Terphenyl	85.4	50 - 150		%Rec	1	6/14/2019 12:52:57 AM

**Gasoline by NWTPH-Gx**

Batch ID: 24912

Analyst: KT

Gasoline	ND	55.4	D	mg/Kg-dry	10	6/14/2019 2:17:27 PM
Gasoline Range Organics (C6-C12)	811	55.4	D	mg/Kg-dry	10	6/14/2019 2:17:27 PM
Surr: Toluene-d8	98.5	65 - 135	D	%Rec	10	6/14/2019 2:17:27 PM
Surr: 4-Bromofluorobenzene	93.3	65 - 135	D	%Rec	10	6/14/2019 2:17:27 PM

**NOTES:**

GRO - Indicates the presence of unresolved compounds eluting from hexane to dodecane (~C6-C12).

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24912

Analyst: KT

Dichlorodifluoromethane (CFC-12)	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Chloromethane	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Vinyl chloride	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Bromomethane	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Trichlorofluoromethane (CFC-11)	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Chloroethane	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,1-Dichloroethene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Methylene chloride	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
trans-1,2-Dichloroethene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Methyl tert-butyl ether (MTBE)	ND	0.0554	Q	mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,1-Dichloroethane	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
cis-1,2-Dichloroethene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Chloroform	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,1,1-Trichloroethane (TCA)	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,1-Dichloropropene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Carbon tetrachloride	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2-Dichloroethane (EDC)	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Benzene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Trichloroethene (TCE)	0.0205	0.0222	J	mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2-Dichloropropane	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Bromodichloromethane	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Dibromomethane	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
cis-1,3-Dichloropropene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 6/13/2019 12:30:00 PM

**Project:** American Linen

**Lab ID:** 1906154-001

**Matrix:** Soil

**Client Sample ID:** 01-108-33.5

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

Batch ID: 24912

Analyst: KT

Toluene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
trans-1,3-Dichloropropylene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,1,2-Trichloroethane	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,3-Dichloropropane	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Tetrachloroethene (PCE)	0.110	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Dibromochloromethane	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2-Dibromoethane (EDB)	ND	0.00554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Chlorobenzene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,1,1,2-Tetrachloroethane	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Ethylbenzene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
m,p-Xylene	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
o-Xylene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Styrene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Isopropylbenzene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Bromoform	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,1,2,2-Tetrachloroethane	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
n-Propylbenzene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Bromobenzene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,3,5-Trimethylbenzene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
2-Chlorotoluene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
4-Chlorotoluene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
tert-Butylbenzene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2,3-Trichloropropane	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2,4-Trichlorobenzene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
sec-Butylbenzene	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
4-Isopropyltoluene	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,3-Dichlorobenzene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,4-Dichlorobenzene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
n-Butylbenzene	ND	0.0277		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2-Dichlorobenzene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2-Dibromo-3-chloropropane	ND	0.554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2,4-Trimethylbenzene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Hexachloro-1,3-butadiene	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Naphthalene	ND	0.0554		mg/Kg-dry	1	6/14/2019 12:47:03 PM
1,2,3-Trichlorobenzene	ND	0.0222		mg/Kg-dry	1	6/14/2019 12:47:03 PM
Surr: Dibromofluoromethane	97.9	56.5 - 129		%Rec	1	6/14/2019 12:47:03 PM
Surr: Toluene-d8	104	64.5 - 151		%Rec	1	6/14/2019 12:47:03 PM
Surr: 1-Bromo-4-fluorobenzene	88.5	54.8 - 168		%Rec	1	6/14/2019 12:47:03 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 6/13/2019 12:30:00 PM

**Project:** American Linen

**Lab ID:** 1906154-001

**Matrix:** Soil

**Client Sample ID:** 01-108-33.5

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

Batch ID: 24912

Analyst: KT

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

**Mercury by EPA Method 7471**

Batch ID: 24920

Analyst: WF

Mercury	0.0790	0.294	J	mg/Kg-dry	1	6/14/2019 2:25:42 PM
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**Total Metals by EPA Method 6020B**

Batch ID: 24916

Analyst: CO

Arsenic	3.70	0.237		mg/Kg-dry	1	6/14/2019 12:49:41 PM
Barium	82.4	0.474		mg/Kg-dry	1	6/14/2019 12:49:41 PM
Cadmium	0.0419	0.189	J	mg/Kg-dry	1	6/14/2019 12:49:41 PM
Chromium	39.6	0.0947		mg/Kg-dry	1	6/14/2019 12:49:41 PM
Lead	3.04	0.189		mg/Kg-dry	1	6/14/2019 12:49:41 PM
Selenium	1.10	0.474		mg/Kg-dry	1	6/14/2019 12:49:41 PM
Silver	0.0320	0.0947	J	mg/Kg-dry	1	6/14/2019 12:49:41 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52056

Analyst: PA

Percent Moisture	18.2			wt%	1	6/13/2019 3:33:10 PM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/13/2019 12:40:00 PM

**Project:** American Linen

**Lab ID:** 1906154-002

**Matrix:** Soil

**Client Sample ID:** 01-109-34

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 24909

Analyst: DW

Diesel (Fuel Oil)	ND	20.8		mg/Kg-dry	1	6/14/2019 1:22:52 AM
Heavy Oil	ND	52.0		mg/Kg-dry	1	6/14/2019 1:22:52 AM
Surr: 2-Fluorobiphenyl	76.8	50 - 150		%Rec	1	6/14/2019 1:22:52 AM
Surr: o-Terphenyl	81.1	50 - 150		%Rec	1	6/14/2019 1:22:52 AM

**Gasoline by NWTPH-Gx**

Batch ID: 24912

Analyst: KT

Gasoline	4.19	4.94	J	mg/Kg-dry	1	6/14/2019 11:46:48 AM
Surr: Toluene-d8	100	65 - 135		%Rec	1	6/14/2019 11:46:48 AM
Surr: 4-Bromofluorobenzene	99.2	65 - 135		%Rec	1	6/14/2019 11:46:48 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24912

Analyst: KT

Dichlorodifluoromethane (CFC-12)	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Chloromethane	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Vinyl chloride	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Bromomethane	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Trichlorofluoromethane (CFC-11)	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Chloroethane	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,1-Dichloroethene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Methylene chloride	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
trans-1,2-Dichloroethene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Methyl tert-butyl ether (MTBE)	ND	0.0494	Q	mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,1-Dichloroethane	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
cis-1,2-Dichloroethene	0.138	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Chloroform	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,1,1-Trichloroethane (TCA)	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,1-Dichloropropene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Carbon tetrachloride	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2-Dichloroethane (EDC)	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Benzene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Trichloroethene (TCE)	0.0519	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2-Dichloropropane	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Bromodichloromethane	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Dibromomethane	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
cis-1,3-Dichloropropene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Toluene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
trans-1,3-Dichloropropylene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,1,2-Trichloroethane	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM



**Client:** PES Environmental, Inc.

**Collection Date:** 6/13/2019 12:40:00 PM

**Project:** American Linen

**Lab ID:** 1906154-002

**Matrix:** Soil

**Client Sample ID:** 01-109-34

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

Batch ID: 24912

Analyst: KT

1,3-Dichloropropane	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Tetrachloroethene (PCE)	0.0128	0.0247	J	mg/Kg-dry	1	6/14/2019 11:46:48 AM
Dibromochloromethane	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2-Dibromoethane (EDB)	ND	0.00494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Chlorobenzene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,1,1,2-Tetrachloroethane	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Ethylbenzene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
m,p-Xylene	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
o-Xylene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Styrene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Isopropylbenzene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Bromoform	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,1,2,2-Tetrachloroethane	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
n-Propylbenzene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Bromobenzene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,3,5-Trimethylbenzene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
2-Chlorotoluene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
4-Chlorotoluene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
tert-Butylbenzene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2,3-Trichloropropane	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2,4-Trichlorobenzene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
sec-Butylbenzene	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
4-Isopropyltoluene	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,3-Dichlorobenzene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,4-Dichlorobenzene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
n-Butylbenzene	ND	0.0247		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2-Dichlorobenzene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2-Dibromo-3-chloropropane	ND	0.494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2,4-Trimethylbenzene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Hexachloro-1,3-butadiene	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Naphthalene	ND	0.0494		mg/Kg-dry	1	6/14/2019 11:46:48 AM
1,2,3-Trichlorobenzene	ND	0.0198		mg/Kg-dry	1	6/14/2019 11:46:48 AM
Surr: Dibromofluoromethane	99.2	56.5 - 129		%Rec	1	6/14/2019 11:46:48 AM
Surr: Toluene-d8	104	64.5 - 151		%Rec	1	6/14/2019 11:46:48 AM
Surr: 1-Bromo-4-fluorobenzene	99.1	54.8 - 168		%Rec	1	6/14/2019 11:46:48 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria



**Client:** PES Environmental, Inc.

**Collection Date:** 6/13/2019 12:40:00 PM

**Project:** American Linen

**Lab ID:** 1906154-002

**Matrix:** Soil

**Client Sample ID:** 01-109-34

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Mercury by EPA Method 7471**

Batch ID: 24920 Analyst: WF

Mercury	0.105	0.276	J	mg/Kg-dry	1	6/14/2019 2:32:12 PM
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**Total Metals by EPA Method 6020B**

Batch ID: 24916 Analyst: CO

Arsenic	2.38	0.212		mg/Kg-dry	1	6/14/2019 1:22:51 PM
Barium	70.2	0.424		mg/Kg-dry	1	6/14/2019 1:22:51 PM
Cadmium	0.101	0.170	J	mg/Kg-dry	1	6/14/2019 1:22:51 PM
Chromium	31.9	0.0848		mg/Kg-dry	1	6/14/2019 1:22:51 PM
Lead	25.2	0.170		mg/Kg-dry	1	6/14/2019 1:22:51 PM
Selenium	0.618	0.424		mg/Kg-dry	1	6/14/2019 1:22:51 PM
Silver	0.0445	0.0848	J	mg/Kg-dry	1	6/14/2019 1:22:51 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52056 Analyst: PA

Percent Moisture	9.26			wt%	1	6/13/2019 3:33:10 PM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/13/2019 1:54:00 PM

**Project:** American Linen

**Lab ID:** 1906154-003

**Matrix:** Soil

**Client Sample ID:** 01-110-31

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 24909      Analyst: DW

Diesel (Fuel Oil)	ND	20.9		mg/Kg-dry	1	6/14/2019 1:52:51 AM
Heavy Oil	ND	52.2		mg/Kg-dry	1	6/14/2019 1:52:51 AM
Surr: 2-Fluorobiphenyl	77.6	50 - 150		%Rec	1	6/14/2019 1:52:51 AM
Surr: o-Terphenyl	82.1	50 - 150		%Rec	1	6/14/2019 1:52:51 AM

**Gasoline by NWTPH-Gx**

Batch ID: 24912      Analyst: KT

Gasoline	1.51	5.91	J	mg/Kg-dry	1	6/14/2019 12:16:54 PM
Surr: Toluene-d8	100	65 - 135		%Rec	1	6/14/2019 12:16:54 PM
Surr: 4-Bromofluorobenzene	93.6	65 - 135		%Rec	1	6/14/2019 12:16:54 PM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24912      Analyst: KT

Dichlorodifluoromethane (CFC-12)	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Chloromethane	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Vinyl chloride	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Bromomethane	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Trichlorofluoromethane (CFC-11)	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Chloroethane	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,1-Dichloroethene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Methylene chloride	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
trans-1,2-Dichloroethene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Methyl tert-butyl ether (MTBE)	ND	0.0591	Q	mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,1-Dichloroethane	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
cis-1,2-Dichloroethene	0.0169	0.0236	J	mg/Kg-dry	1	6/14/2019 12:16:54 PM
Chloroform	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,1,1-Trichloroethane (TCA)	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,1-Dichloropropene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Carbon tetrachloride	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2-Dichloroethane (EDC)	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Benzene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Trichloroethene (TCE)	0.0129	0.0236	J	mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2-Dichloropropane	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Bromodichloromethane	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Dibromomethane	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
cis-1,3-Dichloropropene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Toluene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
trans-1,3-Dichloropropylene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,1,2-Trichloroethane	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM



**Client:** PES Environmental, Inc.

**Collection Date:** 6/13/2019 1:54:00 PM

**Project:** American Linen

**Lab ID:** 1906154-003

**Matrix:** Soil

**Client Sample ID:** 01-110-31

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

Batch ID: 24912

Analyst: KT

1,3-Dichloropropane	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Tetrachloroethene (PCE)	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Dibromochloromethane	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2-Dibromoethane (EDB)	ND	0.00591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Chlorobenzene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,1,1,2-Tetrachloroethane	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Ethylbenzene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
m,p-Xylene	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
o-Xylene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Styrene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Isopropylbenzene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Bromoform	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,1,2,2-Tetrachloroethane	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
n-Propylbenzene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Bromobenzene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,3,5-Trimethylbenzene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
2-Chlorotoluene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
4-Chlorotoluene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
tert-Butylbenzene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2,3-Trichloropropane	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2,4-Trichlorobenzene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
sec-Butylbenzene	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
4-Isopropyltoluene	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,3-Dichlorobenzene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,4-Dichlorobenzene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
n-Butylbenzene	ND	0.0295		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2-Dichlorobenzene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2-Dibromo-3-chloropropane	ND	0.591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2,4-Trimethylbenzene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Hexachloro-1,3-butadiene	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Naphthalene	ND	0.0591		mg/Kg-dry	1	6/14/2019 12:16:54 PM
1,2,3-Trichlorobenzene	ND	0.0236		mg/Kg-dry	1	6/14/2019 12:16:54 PM
Surr: Dibromofluoromethane	99.6	56.5 - 129		%Rec	1	6/14/2019 12:16:54 PM
Surr: Toluene-d8	105	64.5 - 151		%Rec	1	6/14/2019 12:16:54 PM
Surr: 1-Bromo-4-fluorobenzene	98.8	54.8 - 168		%Rec	1	6/14/2019 12:16:54 PM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria



**Client:** PES Environmental, Inc.

**Collection Date:** 6/13/2019 1:54:00 PM

**Project:** American Linen

**Lab ID:** 1906154-003

**Matrix:** Soil

**Client Sample ID:** 01-110-31

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Mercury by EPA Method 7471**

Batch ID: 24920 Analyst: WF

Mercury	0.0190	0.302	J	mg/Kg-dry	1	6/14/2019 2:33:47 PM
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**Total Metals by EPA Method 6020B**

Batch ID: 24916 Analyst: CO

Arsenic	2.73	0.221		mg/Kg-dry	1	6/14/2019 1:28:22 PM
Barium	52.3	0.441		mg/Kg-dry	1	6/14/2019 1:28:22 PM
Cadmium	0.0460	0.176	J	mg/Kg-dry	1	6/14/2019 1:28:22 PM
Chromium	25.9	0.0882		mg/Kg-dry	1	6/14/2019 1:28:22 PM
Lead	1.93	0.176		mg/Kg-dry	1	6/14/2019 1:28:22 PM
Selenium	0.769	0.441		mg/Kg-dry	1	6/14/2019 1:28:22 PM
Silver	0.0599	0.0882	J	mg/Kg-dry	1	6/14/2019 1:28:22 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52056 Analyst: PA

Percent Moisture	17.3			wt%	1	6/13/2019 3:33:10 PM
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**Client:** PES Environmental, Inc.

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

**Project:** American Linen

**Lab ID:** 1906154-004

**Matrix:** Soil

**Client Sample ID:** TB-061319

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 24912      Analyst: KT

Gasoline	0.865	5.00	J	mg/Kg	1	6/14/2019 11:16:43 AM
Surr: Toluene-d8	102	65 - 135		%Rec	1	6/14/2019 11:16:43 AM
Surr: 4-Bromofluorobenzene	92.2	65 - 135		%Rec	1	6/14/2019 11:16:43 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 24912      Analyst: KT

Dichlorodifluoromethane (CFC-12)	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Chloromethane	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
Vinyl chloride	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
Bromomethane	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
Trichlorofluoromethane (CFC-11)	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Chloroethane	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
1,1-Dichloroethene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Methylene chloride	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
trans-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Methyl tert-butyl ether (MTBE)	ND	0.0500	Q	mg/Kg	1	6/14/2019 11:16:43 AM
1,1-Dichloroethane	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Chloroform	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
1,1,1-Trichloroethane (TCA)	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
1,1-Dichloropropene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Carbon tetrachloride	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
1,2-Dichloroethane (EDC)	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Benzene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
1,2-Dichloropropane	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Bromodichloromethane	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Dibromomethane	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
cis-1,3-Dichloropropene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Toluene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
trans-1,3-Dichloropropylene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
1,1,2-Trichloroethane	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
1,3-Dichloropropane	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
Dibromochloromethane	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
1,2-Dibromoethane (EDB)	ND	0.00500		mg/Kg	1	6/14/2019 11:16:43 AM
Chlorobenzene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
1,1,1,2-Tetrachloroethane	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
Ethylbenzene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM



**Client:** PES Environmental, Inc.

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

**Project:** American Linen

**Lab ID:** 1906154-004

**Matrix:** Soil

**Client Sample ID:** TB-061319

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

Batch ID: 24912

Analyst: KT

m,p-Xylene	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
o-Xylene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
Styrene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
Isopropylbenzene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
Bromoform	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
1,1,2,2-Tetrachloroethane	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
n-Propylbenzene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
Bromobenzene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
1,3,5-Trimethylbenzene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
2-Chlorotoluene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
4-Chlorotoluene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
tert-Butylbenzene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
1,2,3-Trichloropropane	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
1,2,4-Trichlorobenzene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
sec-Butylbenzene	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
4-Isopropyltoluene	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
1,3-Dichlorobenzene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
1,4-Dichlorobenzene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
n-Butylbenzene	ND	0.0250		mg/Kg	1	6/14/2019 11:16:43 AM
1,2-Dichlorobenzene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
1,2-Dibromo-3-chloropropane	ND	0.500		mg/Kg	1	6/14/2019 11:16:43 AM
1,2,4-Trimethylbenzene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Hexachloro-1,3-butadiene	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
Naphthalene	ND	0.0500		mg/Kg	1	6/14/2019 11:16:43 AM
1,2,3-Trichlorobenzene	ND	0.0200		mg/Kg	1	6/14/2019 11:16:43 AM
Surr: Dibromofluoromethane	100	56.5 - 129		%Rec	1	6/14/2019 11:16:43 AM
Surr: Toluene-d8	103	64.5 - 151		%Rec	1	6/14/2019 11:16:43 AM
Surr: 1-Bromo-4-fluorobenzene	98.1	54.8 - 168		%Rec	1	6/14/2019 11:16:43 AM

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020B**

Sample ID <b>MB-24916</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/14/2019</b>	RunNo: <b>52083</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>24916</b>		Analysis Date: <b>6/14/2019</b>	SeqNo: <b>1028011</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.192									
Barium	ND	0.385									
Cadmium	ND	0.154									
Chromium	ND	0.0769									
Lead	ND	0.154									
Selenium	ND	0.385									
Silver	ND	0.0769									

Sample ID <b>LCS-24916</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/14/2019</b>	RunNo: <b>52083</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>24916</b>		Analysis Date: <b>6/14/2019</b>	SeqNo: <b>1028012</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	37.1	0.185	37.04	0	100	80	120				
Barium	40.2	0.370	37.04	0	108	80	120				
Cadmium	1.99	0.148	1.852	0	107	80	120				
Chromium	39.3	0.0741	37.04	0	106	80	120				
Lead	19.3	0.148	18.52	0	104	80	120				
Selenium	3.73	0.370	3.704	0	101	80	120				
Silver	8.85	0.0741	9.259	0	95.6	80	120				

Sample ID <b>1906154-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/14/2019</b>	RunNo: <b>52083</b>							
Client ID: <b>01-108-33.5</b>	Batch ID: <b>24916</b>		Analysis Date: <b>6/14/2019</b>	SeqNo: <b>1028014</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	4.26	0.239						3.696	14.2	20	
Barium	87.8	0.477						82.38	6.33	20	
Cadmium	0.0432	0.191						0.04187	3.24	20	J
Chromium	43.8	0.0955						39.60	10.1	20	
Lead	3.06	0.191						3.035	0.770	20	
Selenium	1.11	0.477						1.103	1.06	20	

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020B**

Sample ID	<b>1906154-001ADUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52083</b>		
Client ID:	<b>01-108-33.5</b>	Batch ID:	<b>24916</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028014</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.0149	0.0955						0.03197	72.9	20	J

Sample ID	<b>1906154-001AMS</b>	SampType:	<b>MS</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52083</b>		
Client ID:	<b>01-108-33.5</b>	Batch ID:	<b>24916</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028016</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	48.7	0.241	48.11	3.696	93.6	75	125				
Barium	128	0.481	48.11	82.38	94.1	75	125				
Cadmium	2.56	0.192	2.405	0.04187	104	75	125				
Chromium	89.6	0.0962	48.11	39.60	104	75	125				
Lead	24.1	0.192	24.05	3.035	87.6	75	125				
Selenium	5.21	0.481	4.811	1.103	85.3	75	125				
Silver	9.44	0.0962	12.03	0.03197	78.2	75	125				

Sample ID	<b>1906154-001AMSD</b>	SampType:	<b>MSD</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52083</b>		
Client ID:	<b>01-108-33.5</b>	Batch ID:	<b>24916</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028017</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	49.4	0.239	47.73	3.696	95.7	75	125	48.72	1.31	20	
Barium	146	0.477	47.73	82.38	134	75	125	127.7	13.6	20	S
Cadmium	2.51	0.191	2.387	0.04187	104	75	125	2.555	1.69	20	
Chromium	94.9	0.0955	47.73	39.60	116	75	125	89.58	5.75	20	
Lead	23.8	0.191	23.87	3.035	86.9	75	125	24.10	1.34	20	
Selenium	5.48	0.477	4.773	1.103	91.7	75	125	5.206	5.12	20	
Silver	9.68	0.0955	11.93	0.03197	80.9	75	125	9.437	2.60	20	

**NOTES:**

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range (Ba).

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Mercury by EPA Method 7471**

Sample ID	<b>MB-24920</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52081</b>			
Client ID:	<b>MBLKS</b>	Batch ID:	<b>24920</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028172</b>			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.231

Sample ID	<b>LCS-24920</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52081</b>			
Client ID:	<b>LCSS</b>	Batch ID:	<b>24920</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028173</b>			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.489 0.236 0.4717 0 104 80 120

Sample ID	<b>1906154-001ADUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52081</b>			
Client ID:	<b>01-108-33.5</b>	Batch ID:	<b>24920</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028175</b>			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.0613 0.278 0.07896 25.1 20 J

Sample ID	<b>1906154-001AMS</b>	SampType:	<b>MS</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52081</b>			
Client ID:	<b>01-108-33.5</b>	Batch ID:	<b>24920</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028176</b>			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.666 0.300 0.5990 0.07896 98.0 70 130

Sample ID	<b>1906154-001AMSD</b>	SampType:	<b>MSD</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52081</b>			
Client ID:	<b>01-108-33.5</b>	Batch ID:	<b>24920</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028178</b>			
Analyte		Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 0.607 0.273 0.5455 0.07896 96.7 70 130 0.6661 9.35 20

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID <b>MB-24909</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>6/13/2019</b>	RunNo: <b>52064</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>24909</b>				Analysis Date: <b>6/13/2019</b>	SeqNo: <b>1027674</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	9.97	20.0									J
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	17.2		20.00		85.8	50	150				
Surr: o-Terphenyl	18.2		20.00		91.0	50	150				

Sample ID <b>LCS-24909</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>6/13/2019</b>	RunNo: <b>52064</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>24909</b>				Analysis Date: <b>6/13/2019</b>	SeqNo: <b>1027675</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	505	20.0	500.0	0	101	65	135				
Surr: 2-Fluorobiphenyl	21.8		20.00		109	50	150				
Surr: o-Terphenyl	22.2		20.00		111	50	150				

Sample ID <b>1906146-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>6/13/2019</b>	RunNo: <b>52064</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>24909</b>				Analysis Date: <b>6/13/2019</b>	SeqNo: <b>1027677</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	22.9						0	0	30	
Heavy Oil	ND	57.2						0	0	30	
Surr: 2-Fluorobiphenyl	18.1		22.89		78.9	50	150		0		
Surr: o-Terphenyl	19.5		22.89		85.2	50	150		0		

Sample ID <b>1906146-003AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>6/13/2019</b>	RunNo: <b>52064</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>24909</b>				Analysis Date: <b>6/13/2019</b>	SeqNo: <b>1027678</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	603	23.9	597.0	0	101	65	135				
Surr: 2-Fluorobiphenyl	24.7		23.88		103	50	150				
Surr: o-Terphenyl	24.4		23.88		102	50	150				

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID <b>1906146-003AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/13/2019</b>	RunNo: <b>52064</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24909</b>	Analysis Date: <b>6/13/2019</b>	SeqNo: <b>1027678</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID <b>1906146-003AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/13/2019</b>	RunNo: <b>52064</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24909</b>	Analysis Date: <b>6/13/2019</b>	SeqNo: <b>1027679</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	510	21.7	542.2	0	94.1	65	135	603.3	16.8	30	
Surr: 2-Fluorobiphenyl	18.8		21.69		86.8	50	150		0		
Surr: o-Terphenyl	19.3		21.69		89.1	50	150		0		

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID	<b>LCS-24912</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52087</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>24912</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028086</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	28.7	5.00	25.00	0	115	65	135				
Surr: Toluene-d8	1.27		1.250		102	65	135				
Surr: 4-Bromofluorobenzene	1.23		1.250		98.1	65	135				

Sample ID	<b>LCSD-24912</b>	SampType:	<b>LCSD</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52087</b>		
Client ID:	<b>LCSS02</b>	Batch ID:	<b>24912</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028087</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	27.5	5.00	25.00	0	110	65	135	28.69	4.08	20	
Surr: Toluene-d8	1.27		1.250		101	65	135		0		
Surr: 4-Bromofluorobenzene	1.25		1.250		99.6	65	135		0		

Sample ID	<b>MB-24912</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52087</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>24912</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028088</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	1.27		1.250		101	65	135				
Surr: 4-Bromofluorobenzene	1.17		1.250		93.9	65	135				

Sample ID	<b>1906154-001BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52087</b>		
Client ID:	<b>01-108-33.5</b>	Batch ID:	<b>24912</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028081</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	504	5.54						514.6	2.02	30	E
Surr: Toluene-d8	1.49		1.386		107	65	135		0		
Surr: 4-Bromofluorobenzene	26.3		1.386		1,900	65	135		0		S

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID	1906154-001BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/14/2019	RunNo:	52087		
Client ID:	01-108-33.5	Batch ID:	24912			Analysis Date:	6/14/2019	SeqNo:	1028081		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**NOTES:**

S - Outlying surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).  
 E - Estimated value. The amount exceeds the linear working range of the instrument.



**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-24912</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/14/2019</b>	RunNo: <b>52084</b>
Client ID: <b>LCSS</b>	Batch ID: <b>24912</b>		Analysis Date: <b>6/14/2019</b>	SeqNo: <b>1028029</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.73	0.0200	1.000	0	173	14.3	167				S
Chloromethane	1.42	0.0500	1.000	0	142	32	156				
Vinyl chloride	1.21	0.0250	1.000	0	121	43.4	151				
Bromomethane	1.34	0.0500	1.000	0	134	35	155				
Trichlorofluoromethane (CFC-11)	1.25	0.0200	1.000	0	125	33.8	156				
Chloroethane	1.40	0.0500	1.000	0	140	33.1	147				
1,1-Dichloroethene	1.17	0.0200	1.000	0	117	30.9	145				
Methylene chloride	1.15	0.0200	1.000	0	115	46.3	140				
trans-1,2-Dichloroethene	1.15	0.0200	1.000	0	115	68	130				
Methyl tert-butyl ether (MTBE)	0.862	0.0500	1.000	0	86.2	44.1	152				
1,1-Dichloroethane	1.16	0.0200	1.000	0	116	61.9	137				
cis-1,2-Dichloroethene	1.13	0.0200	1.000	0	113	71.3	135				
Chloroform	1.15	0.0200	1.000	0	115	69	145				
1,1,1-Trichloroethane (TCA)	1.17	0.0250	1.000	0	117	69	132				
1,1-Dichloropropene	1.14	0.0200	1.000	0	114	72.7	131				
Carbon tetrachloride	1.17	0.0250	1.000	0	117	63.4	137				
1,2-Dichloroethane (EDC)	1.08	0.0200	1.000	0	108	50.9	162				
Benzene	1.12	0.0200	1.000	0	112	64.3	133				
Trichloroethene (TCE)	1.11	0.0200	1.000	0	111	65.5	137				
1,2-Dichloropropane	1.09	0.0200	1.000	0	109	63.2	142				
Bromodichloromethane	1.11	0.0200	1.000	0	111	53.4	131				
Dibromomethane	1.03	0.0200	1.000	0	103	60.1	146				
cis-1,3-Dichloropropene	1.04	0.0200	1.000	0	104	59.1	143				
Toluene	1.13	0.0200	1.000	0	113	67	144				
trans-1,3-Dichloropropylene	1.00	0.0200	1.000	0	100	49.2	149				
1,1,2-Trichloroethane	0.963	0.0200	1.000	0	96.3	56.9	147				
1,3-Dichloropropane	1.01	0.0250	1.000	0	101	56.1	153				
Tetrachloroethene (PCE)	1.11	0.0250	1.000	0	111	52.7	150				
Dibromochloromethane	1.01	0.0250	1.000	0	101	70.6	144				
1,2-Dibromoethane (EDB)	0.985	0.00500	1.000	0	98.5	50.5	154				
Chlorobenzene	1.08	0.0250	1.000	0	108	84.9	125				

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID	LCS-24912	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/14/2019	RunNo:	52084		
Client ID:	LCSS	Batch ID:	24912	Analysis Date:	6/14/2019	SeqNo:	1028029				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	0.991	0.0250	1.000	0	99.1	65.9	141				
Ethylbenzene	1.11	0.0250	1.000	0	111	74	129				
m,p-Xylene	2.24	0.0500	2.000	0	112	70	124				
o-Xylene	1.09	0.0250	1.000	0	109	68.1	139				
Styrene	1.09	0.0250	1.000	0	109	73.3	146				
Isopropylbenzene	1.12	0.0250	1.000	0	112	70	130				
Bromoform	0.906	0.0500	1.000	0	90.6	44.3	130				
1,1,1,2,2-Tetrachloroethane	0.870	0.0200	1.000	0	87.0	44.8	165				
n-Propylbenzene	1.15	0.0250	1.000	0	115	75.8	139				
Bromobenzene	1.05	0.0200	1.000	0	105	49.2	144				
1,3,5-Trimethylbenzene	1.10	0.0250	1.000	0	110	76.5	135				
2-Chlorotoluene	1.12	0.0250	1.000	0	112	76.7	129				
4-Chlorotoluene	1.12	0.0250	1.000	0	112	77.5	125				
tert-Butylbenzene	1.12	0.0250	1.000	0	112	66.2	130				
1,2,3-Trichloropropane	0.918	0.0250	1.000	0	91.8	67.9	136				
1,2,4-Trichlorobenzene	1.05	0.0250	1.000	0	105	65.5	150				
sec-Butylbenzene	1.12	0.0500	1.000	0	112	75.6	133				
4-Isopropyltoluene	1.12	0.0500	1.000	0	112	76.8	131				
1,3-Dichlorobenzene	1.12	0.0200	1.000	0	112	48.6	144				
1,4-Dichlorobenzene	1.11	0.0200	1.000	0	111	72.6	126				
n-Butylbenzene	1.15	0.0250	1.000	0	115	78.4	140				
1,2-Dichlorobenzene	1.08	0.0200	1.000	0	108	72.8	126				
1,2-Dibromo-3-chloropropane	0.874	0.500	1.000	0	87.4	40.2	155				
1,2,4-Trimethylbenzene	1.10	0.0200	1.000	0	110	77.5	129				
Hexachloro-1,3-butadiene	1.13	0.0500	1.000	0	113	42	151				
Naphthalene	0.912	0.0500	1.000	0	91.2	46.5	167				
1,2,3-Trichlorobenzene	0.995	0.0200	1.000	0	99.5	64.5	149				
Surr: Dibromofluoromethane	1.35		1.250		108	56.5	129				
Surr: Toluene-d8	1.29		1.250		103	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	54.8	168				

Work Order: 1906154  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID	<b>LCS-24912</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52084</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>24912</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028029</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**NOTES:**

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed and recovered within range.

Sample ID	<b>LCSD-24912</b>	SampType:	<b>LCSD</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52084</b>		
Client ID:	<b>LCSS02</b>	Batch ID:	<b>24912</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028030</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.67	0.0200	1.000	0	167	14.3	167	1.730	3.57	20	
Chloromethane	1.35	0.0500	1.000	0	135	32	156	1.421	4.85	20	
Vinyl chloride	1.13	0.0250	1.000	0	113	43.4	151	1.209	7.03	20	
Bromomethane	1.29	0.0500	1.000	0	129	35	155	1.338	3.66	20	
Trichlorofluoromethane (CFC-11)	1.21	0.0200	1.000	0	121	33.8	156	1.251	3.17	20	
Chloroethane	1.31	0.0500	1.000	0	131	33.1	147	1.400	6.31	20	
1,1-Dichloroethene	1.15	0.0200	1.000	0	115	30.9	145	1.175	1.83	20	
Methylene chloride	1.13	0.0200	1.000	0	113	57.6	135	1.152	1.80	20	
trans-1,2-Dichloroethene	1.12	0.0200	1.000	0	112	68	130	1.153	3.08	20	
Methyl tert-butyl ether (MTBE)	0.919	0.0500	1.000	0	91.9	44.1	152	0.8617	6.41	20	
1,1-Dichloroethane	1.12	0.0200	1.000	0	112	61.9	137	1.160	3.92	20	
cis-1,2-Dichloroethene	1.11	0.0200	1.000	0	111	71.6	123	1.127	1.31	20	
Chloroform	1.12	0.0200	1.000	0	112	69	145	1.146	2.70	20	
1,1,1-Trichloroethane (TCA)	1.13	0.0250	1.000	0	113	69	132	1.166	3.30	20	
1,1-Dichloropropene	1.10	0.0200	1.000	0	110	72.7	131	1.136	2.98	20	
Carbon tetrachloride	1.12	0.0250	1.000	0	112	63.4	137	1.170	4.64	20	
1,2-Dichloroethane (EDC)	1.06	0.0200	1.000	0	106	50.9	162	1.080	1.40	20	
Benzene	1.10	0.0200	1.000	0	110	74.6	124	1.117	1.46	20	
Trichloroethene (TCE)	1.09	0.0200	1.000	0	109	65.5	137	1.107	1.44	20	
1,2-Dichloropropane	1.10	0.0200	1.000	0	110	63.2	142	1.094	0.138	20	
Bromodichloromethane	1.12	0.0200	1.000	0	112	53.4	131	1.109	0.941	20	
Dibromomethane	1.04	0.0200	1.000	0	104	60.1	146	1.027	0.880	20	
cis-1,3-Dichloropropene	1.06	0.0200	1.000	0	106	59.1	143	1.040	1.89	20	
Toluene	1.11	0.0200	1.000	0	111	67	144	1.133	2.03	20	

Work Order: 1906154  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID	LCSD-24912	SampType:	LCSD	Units:	mg/Kg	Prep Date:	6/14/2019	RunNo:	52084		
Client ID:	LCSS02	Batch ID:	24912	Analysis Date:	6/14/2019	SeqNo:	1028030				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropylene	1.04	0.0200	1.000	0	104	49.2	149	1.005	3.16	20	
1,1,2-Trichloroethane	1.00	0.0200	1.000	0	100	56.9	147	0.9628	4.05	20	
1,3-Dichloropropane	1.03	0.0250	1.000	0	103	56.1	153	1.011	2.21	20	
Tetrachloroethene (PCE)	1.08	0.0250	1.000	0	108	52.7	150	1.106	2.77	20	
Dibromochloromethane	1.04	0.0250	1.000	0	104	70.6	144	1.012	3.12	20	
1,2-Dibromoethane (EDB)	1.00	0.00500	1.000	0	100	50.5	154	0.9849	1.83	20	
Chlorobenzene	1.07	0.0250	1.000	0	107	84.9	125	1.085	1.76	20	
1,1,1,2-Tetrachloroethane	1.01	0.0250	1.000	0	101	65.9	141	0.9912	1.59	20	
Ethylbenzene	1.09	0.0250	1.000	0	109	74	129	1.111	2.37	20	
m,p-Xylene	2.18	0.0500	2.000	0	109	70	124	2.243	2.63	20	
o-Xylene	1.08	0.0250	1.000	0	108	68.1	139	1.088	0.336	20	
Styrene	1.08	0.0250	1.000	0	108	73.3	146	1.089	0.332	20	
Isopropylbenzene	1.09	0.0250	1.000	0	109	70	130	1.117	2.73	20	
Bromoform	0.941	0.0500	1.000	0	94.1	44.3	130	0.9064	3.77	20	
1,1,1,2,2-Tetrachloroethane	0.919	0.0200	1.000	0	91.9	44.8	165	0.8697	5.49	20	
n-Propylbenzene	1.12	0.0250	1.000	0	112	75.8	139	1.146	2.14	20	
Bromobenzene	1.05	0.0200	1.000	0	105	49.2	144	1.047	0.260	20	
1,3,5-Trimethylbenzene	1.08	0.0250	1.000	0	108	76.5	135	1.104	1.92	20	
2-Chlorotoluene	1.10	0.0250	1.000	0	110	76.7	129	1.117	1.43	20	
4-Chlorotoluene	1.10	0.0250	1.000	0	110	77.5	125	1.116	1.21	20	
tert-Butylbenzene	1.09	0.0250	1.000	0	109	66.2	130	1.117	2.45	20	
1,2,3-Trichloropropane	0.940	0.0250	1.000	0	94.0	67.9	136	0.9179	2.35	20	
1,2,4-Trichlorobenzene	1.05	0.0250	1.000	0	105	65.5	150	1.051	0.112	20	
sec-Butylbenzene	1.11	0.0500	1.000	0	111	75.6	133	1.121	1.04	20	
4-Isopropyltoluene	1.10	0.0500	1.000	0	110	76.8	131	1.121	1.86	20	
1,3-Dichlorobenzene	1.08	0.0200	1.000	0	108	48.6	144	1.124	3.95	20	
1,4-Dichlorobenzene	1.09	0.0200	1.000	0	109	72.6	126	1.107	2.04	20	
n-Butylbenzene	1.13	0.0250	1.000	0	113	78.4	140	1.151	1.66	20	
1,2-Dichlorobenzene	1.06	0.0200	1.000	0	106	72.8	126	1.082	2.34	20	
1,2-Dibromo-3-chloropropane	0.919	0.500	1.000	0	91.9	40.2	155	0.8742	4.96	20	
1,2,4-Trimethylbenzene	1.09	0.0200	1.000	0	109	77.5	129	1.104	1.08	20	

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>LCSD-24912</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/14/2019</b>	RunNo: <b>52084</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>24912</b>		Analysis Date: <b>6/14/2019</b>	SeqNo: <b>1028030</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	1.11	0.0500	1.000	0	111	42	151	1.128	1.87	20	
Naphthalene	0.931	0.0500	1.000	0	93.1	46.5	167	0.9117	2.10	20	
1,2,3-Trichlorobenzene	0.993	0.0200	1.000	0	99.3	64.5	149	0.9946	0.157	20	
Surr: Dibromofluoromethane	1.36		1.250		109	56.5	129		0		
Surr: Toluene-d8	1.32		1.250		105	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168		0		

Sample ID <b>MB-24912</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/14/2019</b>	RunNo: <b>52084</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>24912</b>		Analysis Date: <b>6/14/2019</b>	SeqNo: <b>1028031</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0200									
Chloromethane	ND	0.0500									
Vinyl chloride	ND	0.0250									
Bromomethane	ND	0.0500									
Trichlorofluoromethane (CFC-11)	ND	0.0200									
Chloroethane	ND	0.0500									
1,1-Dichloroethene	ND	0.0200									
Methylene chloride	ND	0.0200									
trans-1,2-Dichloroethene	ND	0.0200									
Methyl tert-butyl ether (MTBE)	ND	0.0500									Q
1,1-Dichloroethane	ND	0.0200									
cis-1,2-Dichloroethene	ND	0.0200									
Chloroform	ND	0.0200									
1,1,1-Trichloroethane (TCA)	ND	0.0250									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0250									
1,2-Dichloroethane (EDC)	ND	0.0200									
Benzene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>MB-24912</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/14/2019</b>	RunNo: <b>52084</b>
Client ID: <b>MBLKS</b>	Batch ID: <b>24912</b>		Analysis Date: <b>6/14/2019</b>	SeqNo: <b>1028031</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	ND	0.0200									
Bromodichloromethane	ND	0.0200									
Dibromomethane	ND	0.0200									
cis-1,3-Dichloropropene	ND	0.0200									
Toluene	ND	0.0200									
trans-1,3-Dichloropropylene	ND	0.0200									
1,1,2-Trichloroethane	ND	0.0200									
1,3-Dichloropropane	ND	0.0250									
Tetrachloroethene (PCE)	ND	0.0250									
Dibromochloromethane	ND	0.0250									
1,2-Dibromoethane (EDB)	ND	0.00500									
Chlorobenzene	ND	0.0250									
1,1,1,2-Tetrachloroethane	ND	0.0250									
Ethylbenzene	ND	0.0250									
m,p-Xylene	ND	0.0500									
o-Xylene	ND	0.0250									
Styrene	ND	0.0250									
Isopropylbenzene	ND	0.0250									
Bromoform	ND	0.0500									
1,1,1,2,2-Tetrachloroethane	ND	0.0200									
n-Propylbenzene	ND	0.0250									
Bromobenzene	ND	0.0200									
1,3,5-Trimethylbenzene	ND	0.0250									
2-Chlorotoluene	ND	0.0250									
4-Chlorotoluene	ND	0.0250									
tert-Butylbenzene	ND	0.0250									
1,2,3-Trichloropropane	ND	0.0250									
1,2,4-Trichlorobenzene	ND	0.0250									
sec-Butylbenzene	ND	0.0500									
4-Isopropyltoluene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0200									

**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID	<b>MB-24912</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52084</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>24912</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028031</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.0200									
n-Butylbenzene	ND	0.0250									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.0200									
Hexachloro-1,3-butadiene	ND	0.0500									
Naphthalene	ND	0.0500									
1,2,3-Trichlorobenzene	ND	0.0200									
Surr: Dibromofluoromethane	1.27		1.250		102	56.5	129				
Surr: Toluene-d8	1.29		1.250		103	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		99.8	54.8	168				

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID	<b>1906154-001BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/14/2019</b>	RunNo:	<b>52084</b>		
Client ID:	<b>01-108-33.5</b>	Batch ID:	<b>24912</b>			Analysis Date:	<b>6/14/2019</b>	SeqNo:	<b>1028024</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0222						0	0	30	
Chloromethane	ND	0.0554						0	0	30	
Vinyl chloride	ND	0.0277						0	0	30	
Bromomethane	ND	0.0554						0	0	30	
Trichlorofluoromethane (CFC-11)	ND	0.0222						0	0	30	
Chloroethane	ND	0.0554						0	0	30	
1,1-Dichloroethene	ND	0.0222						0	0	30	
Methylene chloride	ND	0.0222						0	0	30	
trans-1,2-Dichloroethene	ND	0.0222						0	0	30	
Methyl tert-butyl ether (MTBE)	ND	0.0554						0	0	30	Q
1,1-Dichloroethane	ND	0.0222						0	0	30	
cis-1,2-Dichloroethene	ND	0.0222						0	0	30	
Chloroform	ND	0.0222						0	0	30	



Work Order: 1906154  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>1906154-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/14/2019</b>	RunNo: <b>52084</b>
Client ID: <b>01-108-33.5</b>	Batch ID: <b>24912</b>		Analysis Date: <b>6/14/2019</b>	SeqNo: <b>1028024</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane (TCA)	ND	0.0277						0	0	30	
1,1-Dichloropropene	ND	0.0222						0	0	30	
Carbon tetrachloride	ND	0.0277						0	0	30	
1,2-Dichloroethane (EDC)	ND	0.0222						0	0	30	
Benzene	ND	0.0222						0	0	30	
Trichloroethene (TCE)	0.0190	0.0222						0.02047	7.32	30	J
1,2-Dichloropropane	ND	0.0222						0	0	30	
Bromodichloromethane	ND	0.0222						0	0	30	
Dibromomethane	ND	0.0222						0	0	30	
cis-1,3-Dichloropropene	ND	0.0222						0	0	30	
Toluene	ND	0.0222						0	0	30	
trans-1,3-Dichloropropylene	ND	0.0222						0	0	30	
1,1,2-Trichloroethane	ND	0.0222						0	0	30	
1,3-Dichloropropane	ND	0.0277						0	0	30	
Tetrachloroethene (PCE)	0.0959	0.0277						0.1102	13.8	30	
Dibromochloromethane	ND	0.0277						0	0	30	
1,2-Dibromoethane (EDB)	ND	0.00554						0	0	30	
Chlorobenzene	ND	0.0277						0	0	30	
1,1,1,2-Tetrachloroethane	ND	0.0277						0	0	30	
Ethylbenzene	ND	0.0277						0	0	30	
m,p-Xylene	ND	0.0554						0	0	30	
o-Xylene	ND	0.0277						0	0	30	
Styrene	ND	0.0277						0	0	30	
Isopropylbenzene	ND	0.0277						0	0	30	
Bromoform	ND	0.0554						0	0	30	
1,1,2,2-Tetrachloroethane	ND	0.0222						0	0	30	
n-Propylbenzene	ND	0.0277						0	0	30	
Bromobenzene	ND	0.0222						0	0	30	
1,3,5-Trimethylbenzene	ND	0.0277						0	0	30	
2-Chlorotoluene	ND	0.0277						0	0	30	
4-Chlorotoluene	ND	0.0277						0	0	30	

Work Order: 1906154  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID	1906154-001BDUP	SampType:	DUP	Units:	mg/Kg-dry	Prep Date:	6/14/2019	RunNo:	52084		
Client ID:	01-108-33.5	Batch ID:	24912			Analysis Date:	6/14/2019	SeqNo:	1028024		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

tert-Butylbenzene	ND	0.0277						0	0	30	
1,2,3-Trichloropropane	ND	0.0277						0	0	30	
1,2,4-Trichlorobenzene	ND	0.0277						0	0	30	
sec-Butylbenzene	ND	0.0554						0	0	30	
4-Isopropyltoluene	ND	0.0554						0	0	30	
1,3-Dichlorobenzene	ND	0.0222						0	0	30	
1,4-Dichlorobenzene	ND	0.0222						0	0	30	
n-Butylbenzene	ND	0.0277						0	0	30	
1,2-Dichlorobenzene	ND	0.0222						0	0	30	
1,2-Dibromo-3-chloropropane	ND	0.554						0	0	30	
1,2,4-Trimethylbenzene	ND	0.0222						0	0	30	
Hexachloro-1,3-butadiene	ND	0.0554						0	0	30	
Naphthalene	ND	0.0554						0	0	30	
1,2,3-Trichlorobenzene	ND	0.0222						0	0	30	
Surr: Dibromofluoromethane	1.32		1.386		95.1	56.5	129		0		
Surr: Toluene-d8	1.38		1.386		99.7	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.06		1.386		76.6	54.8	168		0		

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria



**Work Order:** 1906154  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID <b>1906154-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/13/2019</b>	RunNo: <b>52056</b>							
Client ID: <b>01-109-34</b>	Batch ID: <b>R52056</b>		Analysis Date: <b>6/13/2019</b>	SeqNo: <b>1027517</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	8.80	0.500						9.264	5.17	20	

Client Name: **PES**

 Work Order Number: **1906154**

 Logged by: **Clare Griggs**

 Date Received: **6/13/2019 2:56:00 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

### 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	2.2
Sample	24.1

\* 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: 6/13/19 Page: 1 of 1  
Project Name: AMERICAN LINEN

Laboratory Project No (Internal): 1906154  
Special Remarks:  
ASAP TAT

Client: PESENVIRONMENTAL  
Project No: 1413.001.05.402

FULL LIST VOCs

Address: 1215 4th AVE STE 1350  
Collected by: R. McLAUGHLIN / K. ZYGAS

TRH GX & DY EXTENDED  
RCA & METALS  
NO DILUTION

City, State, zip: SEATTLE WA 98161  
Location: SEATTLE WA

Telephone: 206 529 3980  
Report To (PM): B. ONEAL

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

Fax: 206 529 3985  
PM Email: BONEAL@PESENV.COM

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	EXTENDED										Comments						
				VOCs (EPA 8260 / 624)	GW/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (DYO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - 608)	Metals** (EPA 6020 / 200.8)		Total (T)   Dissolved (D)	Anions (IC)***	EDB (8011)	RCA-8 METALS		
1 01-108-33.5	6/13/19	1230	S	X																
2 01-109-34		1240	S	X																
3 01-110-31	X	1354	S	X																
4 TB-061319	6/13/19	1400	-	X																TRP BLANK
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): MICA-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 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>[Signature]</u>	<u>6/13/19 1456</u>	<u>[Signature]</u>	<u>6/13/19 1456</u>
Relinquished	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>6/13/19 1456</u>	<u>[Signature]</u>	<u>6/13/19 1456</u>



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: 1906304**

June 25, 2019

**Attention Karsten Springstead:**

Fremont Analytical, Inc. received 17 sample(s) on 6/24/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**  
Dan Balbiani  
Kim Vik



Date: 06/25/2019

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906304

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906304-001	03-OB-004-26.5	06/24/2019 1:47 PM	06/24/2019 3:27 PM
1906304-002	03-OB-004-25.5	06/24/2019 1:51 PM	06/24/2019 3:27 PM
1906304-003	03-29-004-28	06/24/2019 1:43 PM	06/24/2019 3:27 PM
1906304-004	03-29-110-28.5	06/24/2019 2:02 PM	06/24/2019 3:27 PM
1906304-005	03-25-110-24	06/24/2019 1:58 PM	06/24/2019 3:27 PM
1906304-006	03-29-118-28	06/24/2019 2:23 PM	06/24/2019 3:27 PM
1906304-007	03-27-118-26	06/24/2019 2:25 PM	06/24/2019 3:27 PM
1906304-008	03-29-119-28	06/24/2019 2:08 PM	06/24/2019 3:27 PM
1906304-009	03-27-119-26	06/24/2019 2:12 PM	06/24/2019 3:27 PM
1906304-010	B-950-28	06/24/2019 3:00 PM	06/24/2019 3:27 PM
1906304-011	03-25-109-24	06/24/2019 1:40 PM	06/24/2019 3:27 PM
1906304-012	03-25-118-24	06/24/2019 2:28 PM	06/24/2019 3:27 PM
1906304-013	03-23-118-22	06/24/2019 2:34 PM	06/24/2019 3:27 PM
1906304-014	03-25-119-24	06/24/2019 2:15 PM	06/24/2019 3:27 PM
1906304-015	03-23-119-22	06/24/2019 2:19 PM	06/24/2019 3:27 PM
1906304-016	TB-062419	06/24/2019 2:28 PM	06/24/2019 3:27 PM
1906304-017	E17-21-TB-36	06/24/2019 10:12 AM	06/24/2019 3:27 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.

6/25/19: Rev1 includes re-analysis.



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.

**Project:** American Linen

**Lab ID:** 1906304-001

**Collection Date:** 6/24/2019 1:47:00 PM

**Client Sample ID:** 03-OB-004-26.5

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.247	D	mg/Kg-dry	10	6/24/2019 10:04:12 PM
cis-1,2-Dichloroethene	ND	0.197	D	mg/Kg-dry	10	6/24/2019 10:04:12 PM
Trichloroethene (TCE)	ND	0.197	D	mg/Kg-dry	10	6/24/2019 10:04:12 PM
Tetrachloroethene (PCE)	0.613	0.247	D	mg/Kg-dry	10	6/24/2019 10:04:12 PM
Surr: Dibromofluoromethane	97.2	56.5 - 129	D	%Rec	10	6/24/2019 10:04:12 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/24/2019 10:04:12 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/24/2019 10:04:12 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	13.5	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Lab ID:** 1906304-002

**Collection Date:** 6/24/2019 1:51:00 PM

**Client Sample ID:** 03-OB-004-25.5

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.228	D	mg/Kg-dry	10	6/24/2019 10:34:20 PM
cis-1,2-Dichloroethene	ND	0.183	D	mg/Kg-dry	10	6/24/2019 10:34:20 PM
Trichloroethene (TCE)	ND	0.183	D	mg/Kg-dry	10	6/24/2019 10:34:20 PM
Tetrachloroethene (PCE)	0.394	0.228	D	mg/Kg-dry	10	6/24/2019 10:34:20 PM
Surr: Dibromofluoromethane	97.5	56.5 - 129	D	%Rec	10	6/24/2019 10:34:20 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/24/2019 10:34:20 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	6/24/2019 10:34:20 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	9.98	0.500		wt%	1	6/24/2019 4:17:15 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1906304-003

**Collection Date:** 6/24/2019 1:43:00 PM

**Client Sample ID:** 03-29-004-28

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.231	D	mg/Kg-dry	10	6/24/2019 11:04:27 PM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	6/24/2019 11:04:27 PM
Trichloroethene (TCE)	ND	0.184	D	mg/Kg-dry	10	6/24/2019 11:04:27 PM
Tetrachloroethene (PCE)	300	4.61	D	mg/Kg-dry	200	6/25/2019 9:04:28 AM
Surr: Dibromofluoromethane	97.6	56.5 - 129	D	%Rec	10	6/24/2019 11:04:27 PM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	6/24/2019 11:04:27 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	6/24/2019 11:04:27 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	13.1	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Lab ID:** 1906304-004

**Collection Date:** 6/24/2019 2:02:00 PM

**Client Sample ID:** 03-29-110-28.5

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.211	D	mg/Kg-dry	10	6/24/2019 11:34:34 PM
cis-1,2-Dichloroethene	ND	0.169	D	mg/Kg-dry	10	6/24/2019 11:34:34 PM
Trichloroethene (TCE)	ND	0.169	D	mg/Kg-dry	10	6/24/2019 11:34:34 PM
Tetrachloroethene (PCE)	4.04	0.211	D	mg/Kg-dry	10	6/25/2019 9:34:37 AM
Surr: Dibromofluoromethane	98.9	56.5 - 129	D	%Rec	10	6/24/2019 11:34:34 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/24/2019 11:34:34 PM
Surr: 1-Bromo-4-fluorobenzene	99.9	54.8 - 168	D	%Rec	10	6/24/2019 11:34:34 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	9.67	0.500		wt%	1	6/24/2019 4:17:15 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906304-005

**Collection Date:** 6/24/2019 1:58:00 PM

**Client Sample ID:** 03-25-110-24

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.216	D	mg/Kg-dry	10	6/25/2019 12:04:41 AM
cis-1,2-Dichloroethene	ND	0.173	D	mg/Kg-dry	10	6/25/2019 12:04:41 AM
Trichloroethene (TCE)	ND	0.173	D	mg/Kg-dry	10	6/25/2019 12:04:41 AM
Tetrachloroethene (PCE)	9.85	0.216	D	µg/L-dry	10	6/25/2019 10:40:16 AM
Surr: Dibromofluoromethane	99.7	56.5 - 129	D	%Rec	10	6/25/2019 12:04:41 AM
Surr: Toluene-d8	99.4	64.5 - 151	D	%Rec	10	6/25/2019 12:04:41 AM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/25/2019 12:04:41 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	11.0	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Lab ID:** 1906304-006

**Collection Date:** 6/24/2019 2:23:00 PM

**Client Sample ID:** 03-29-118-28

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.236	D	mg/Kg-dry	10	6/25/2019 12:34:49 AM
cis-1,2-Dichloroethene	ND	0.188	D	mg/Kg-dry	10	6/25/2019 12:34:49 AM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	6/25/2019 12:34:49 AM
Tetrachloroethene (PCE)	7.85	0.236	D	mg/Kg-dry	10	6/25/2019 11:10:24 AM
Surr: Dibromofluoromethane	99.1	56.5 - 129	D	%Rec	10	6/25/2019 12:34:49 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 12:34:49 AM
Surr: 1-Bromo-4-fluorobenzene	99.3	54.8 - 168	D	%Rec	10	6/25/2019 12:34:49 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	10.8	0.500		wt%	1	6/24/2019 4:17:15 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906304-007

**Collection Date:** 6/24/2019 2:25:00 PM

**Client Sample ID:** 03-27-118-26

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.209	D	mg/Kg-dry	10	6/25/2019 1:04:56 AM
cis-1,2-Dichloroethene	ND	0.168	D	mg/Kg-dry	10	6/25/2019 1:04:56 AM
Trichloroethene (TCE)	ND	0.168	D	mg/Kg-dry	10	6/25/2019 1:04:56 AM
Tetrachloroethene (PCE)	0.359	0.209	D	mg/Kg-dry	10	6/25/2019 1:04:56 AM
Surr: Dibromofluoromethane	96.6	56.5 - 129	D	%Rec	10	6/25/2019 1:04:56 AM
Surr: Toluene-d8	98.4	64.5 - 151	D	%Rec	10	6/25/2019 1:04:56 AM
Surr: 1-Bromo-4-fluorobenzene	99.1	54.8 - 168	D	%Rec	10	6/25/2019 1:04:56 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	9.16	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Lab ID:** 1906304-008

**Collection Date:** 6/24/2019 2:08:00 PM

**Client Sample ID:** 03-29-119-28

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	6/25/2019 1:35:03 AM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	6/25/2019 1:35:03 AM
Trichloroethene (TCE)	ND	0.184	D	mg/Kg-dry	10	6/25/2019 1:35:03 AM
Tetrachloroethene (PCE)	0.378	0.230	D	mg/Kg-dry	10	6/25/2019 1:35:03 AM
Surr: Dibromofluoromethane	98.4	56.5 - 129	D	%Rec	10	6/25/2019 1:35:03 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 1:35:03 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	6/25/2019 1:35:03 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	11.4	0.500		wt%	1	6/24/2019 4:17:15 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906304-009

**Collection Date:** 6/24/2019 2:12:00 PM

**Client Sample ID:** 03-27-119-26

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.214	D	mg/Kg-dry	10	6/25/2019 2:05:13 AM
cis-1,2-Dichloroethene	ND	0.171	D	mg/Kg-dry	10	6/25/2019 2:05:13 AM
Trichloroethene (TCE)	ND	0.171	D	mg/Kg-dry	10	6/25/2019 2:05:13 AM
Tetrachloroethene (PCE)	3.77	0.214	D	mg/Kg-dry	10	6/25/2019 2:05:13 AM
Surr: Dibromofluoromethane	96.9	56.5 - 129	D	%Rec	10	6/25/2019 2:05:13 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/25/2019 2:05:13 AM
Surr: 1-Bromo-4-fluorobenzene	99.4	54.8 - 168	D	%Rec	10	6/25/2019 2:05:13 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	7.24	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Lab ID:** 1906304-010

**Collection Date:** 6/24/2019 3:00:00 PM

**Client Sample ID:** B-950-28

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.236	D	mg/Kg-dry	10	6/25/2019 2:35:18 AM
cis-1,2-Dichloroethene	ND	0.188	D	mg/Kg-dry	10	6/25/2019 2:35:18 AM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	6/25/2019 2:35:18 AM
Tetrachloroethene (PCE)	3.16	0.236	D	mg/Kg-dry	10	6/25/2019 2:35:18 AM
Surr: Dibromofluoromethane	97.4	56.5 - 129	D	%Rec	10	6/25/2019 2:35:18 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/25/2019 2:35:18 AM
Surr: 1-Bromo-4-fluorobenzene	97.4	54.8 - 168	D	%Rec	10	6/25/2019 2:35:18 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	10.9	0.500		wt%	1	6/24/2019 4:17:15 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1906304-011

**Collection Date:** 6/24/2019 1:40:00 PM

**Client Sample ID:** 03-25-109-24

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.217	D	mg/Kg-dry	10	6/25/2019 4:34:37 AM
cis-1,2-Dichloroethene	ND	0.174	D	mg/Kg-dry	10	6/25/2019 4:34:37 AM
Trichloroethene (TCE)	ND	0.174	D	mg/Kg-dry	10	6/25/2019 4:34:37 AM
Tetrachloroethene (PCE)	0.102	0.217	DJ	mg/Kg-dry	10	6/25/2019 4:34:37 AM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/25/2019 4:34:37 AM
Surr: Toluene-d8	97.5	64.5 - 151	D	%Rec	10	6/25/2019 4:34:37 AM
Surr: 1-Bromo-4-fluorobenzene	98.6	54.8 - 168	D	%Rec	10	6/25/2019 4:34:37 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	8.80	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Lab ID:** 1906304-012

**Collection Date:** 6/24/2019 2:28:00 PM

**Client Sample ID:** 03-25-118-24

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.225	D	mg/Kg-dry	10	6/25/2019 5:04:44 AM
cis-1,2-Dichloroethene	ND	0.180	D	mg/Kg-dry	10	6/25/2019 5:04:44 AM
Trichloroethene (TCE)	ND	0.180	D	mg/Kg-dry	10	6/25/2019 5:04:44 AM
Tetrachloroethene (PCE)	0.228	0.225	D	mg/Kg-dry	10	6/25/2019 5:04:44 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/25/2019 5:04:44 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 5:04:44 AM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	6/25/2019 5:04:44 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	7.99	0.500		wt%	1	6/24/2019 4:17:15 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1906304-013

**Collection Date:** 6/24/2019 2:34:00 PM

**Client Sample ID:** 03-23-118-22

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.216	D	mg/Kg-dry	10	6/25/2019 5:34:52 AM
cis-1,2-Dichloroethene	0.206	0.173	D	mg/Kg-dry	10	6/25/2019 5:34:52 AM
Trichloroethene (TCE)	0.0714	0.173	DJ	mg/Kg-dry	10	6/25/2019 5:34:52 AM
Tetrachloroethene (PCE)	0.706	0.216	D	mg/Kg-dry	10	6/25/2019 5:34:52 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/25/2019 5:34:52 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/25/2019 5:34:52 AM
Surr: 1-Bromo-4-fluorobenzene	99.9	54.8 - 168	D	%Rec	10	6/25/2019 5:34:52 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	8.68	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Lab ID:** 1906304-014

**Collection Date:** 6/24/2019 2:15:00 PM

**Client Sample ID:** 03-25-119-24

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	6/25/2019 6:04:59 AM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	6/25/2019 6:04:59 AM
Trichloroethene (TCE)	0.0618	0.184	DJ	mg/Kg-dry	10	6/25/2019 6:04:59 AM
Tetrachloroethene (PCE)	4.04	0.230	D	mg/Kg-dry	10	6/25/2019 6:04:59 AM
Surr: Dibromofluoromethane	99.5	56.5 - 129	D	%Rec	10	6/25/2019 6:04:59 AM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	6/25/2019 6:04:59 AM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	6/25/2019 6:04:59 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	8.90	0.500		wt%	1	6/24/2019 4:17:15 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906304-015

**Collection Date:** 6/24/2019 2:19:00 PM

**Client Sample ID:** 03-23-119-22

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.227	D	mg/Kg-dry	10	6/25/2019 6:35:06 AM
cis-1,2-Dichloroethene	0.159	0.181	DJ	mg/Kg-dry	10	6/25/2019 6:35:06 AM
Trichloroethene (TCE)	0.165	0.181	DJ	mg/Kg-dry	10	6/25/2019 6:35:06 AM
Tetrachloroethene (PCE)	2.01	0.227	D	mg/Kg-dry	10	6/25/2019 6:35:06 AM
Surr: Dibromofluoromethane	98.4	56.5 - 129	D	%Rec	10	6/25/2019 6:35:06 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/25/2019 6:35:06 AM
Surr: 1-Bromo-4-fluorobenzene	99.0	54.8 - 168	D	%Rec	10	6/25/2019 6:35:06 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	8.80	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Lab ID:** 1906304-016

**Collection Date:** 6/24/2019 2:28:00 PM

**Client Sample ID:** TB-062419

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.0250		mg/Kg	1	6/24/2019 8:33:53 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	6/24/2019 8:33:53 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	6/24/2019 8:33:53 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	6/24/2019 8:33:53 PM
Surr: Dibromofluoromethane	95.4	56.5 - 129		%Rec	1	6/24/2019 8:33:53 PM
Surr: Toluene-d8	100	64.5 - 151		%Rec	1	6/24/2019 8:33:53 PM
Surr: 1-Bromo-4-fluorobenzene	96.6	54.8 - 168		%Rec	1	6/24/2019 8:33:53 PM



**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906304-017

**Collection Date:** 6/24/2019 10:12:00 AM

**Client Sample ID:** E17-21-TB-36

**Matrix:** Soil

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

Batch ID: 25013

Analyst: CR

Vinyl chloride	ND	0.257	D	mg/Kg-dry	10	6/25/2019 7:35:24 AM
cis-1,2-Dichloroethene	ND	0.206	D	mg/Kg-dry	10	6/25/2019 7:35:24 AM
Trichloroethene (TCE)	ND	0.206	D	mg/Kg-dry	10	6/25/2019 7:35:24 AM
Tetrachloroethene (PCE)	ND	0.257	D	mg/Kg-dry	10	6/25/2019 7:35:24 AM
Surr: Dibromofluoromethane	97.8	56.5 - 129	D	%Rec	10	6/25/2019 7:35:24 AM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	6/25/2019 7:35:24 AM
Surr: 1-Bromo-4-fluorobenzene	99.3	54.8 - 168	D	%Rec	10	6/25/2019 7:35:24 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52260

Analyst: CG

Percent Moisture	18.3	0.500		wt%	1	6/24/2019 4:17:15 PM
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**Work Order:** 1906304  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25013</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/24/2019</b>	RunNo: <b>52273</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25013</b>					Analysis Date: <b>6/24/2019</b>	SeqNo: <b>1032319</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.20	0.0250	1.000	0	120	43.4	151				
cis-1,2-Dichloroethene	1.05	0.0200	1.000	0	105	71.3	135				
Trichloroethene (TCE)	1.06	0.0200	1.000	0	106	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.30		1.250		104	56.5	129				
Surr: Toluene-d8	1.28		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		102	54.8	168				

Sample ID: <b>LCSD-25013</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/24/2019</b>	RunNo: <b>52273</b>				
Client ID: <b>LCSS02</b>	Batch ID: <b>25013</b>					Analysis Date: <b>6/24/2019</b>	SeqNo: <b>1032320</b>				
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	1.195	7.10	20	
cis-1,2-Dichloroethene	1.03	0.0200	1.000	0	103	71.6	123	1.052	2.51	20	
Trichloroethene (TCE)	0.998	0.0200	1.000	0	99.8	65.5	137	1.065	6.43	20	
Tetrachloroethene (PCE)	1.01	0.0250	1.000	0	101	52.7	150	1.061	5.01	20	
Surr: Dibromofluoromethane	1.30		1.250		104	56.5	129		0		
Surr: Toluene-d8	1.27		1.250		101	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168		0		

Sample ID: <b>MB-25013</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/24/2019</b>	RunNo: <b>52273</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25013</b>					Analysis Date: <b>6/24/2019</b>	SeqNo: <b>1032321</b>				
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		95.7	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				

Work Order: 1906304  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>MB-25013</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/24/2019</b>	RunNo: <b>52273</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25013</b>		Analysis Date: <b>6/24/2019</b>	SeqNo: <b>1032321</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene      1.20      1.250      96.3      54.8      168

Sample ID: <b>1906296-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/24/2019</b>	RunNo: <b>52273</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25013</b>		Analysis Date: <b>6/24/2019</b>	SeqNo: <b>1032323</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0252						0	0	30	
cis-1,2-Dichloroethene	ND	0.0202						0	0	30	
Trichloroethene (TCE)	ND	0.0202						0	0	30	
Tetrachloroethene (PCE)	ND	0.0252						0	0	30	
Surr: Dibromofluoromethane	1.18		1.262		93.2	56.5	129		0		
Surr: Toluene-d8	1.27		1.262		100	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.24		1.262		98.1	54.8	168		0		

Sample ID: <b>1906304-015BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/24/2019</b>	RunNo: <b>52273</b>							
Client ID: <b>03-23-119-22</b>	Batch ID: <b>25013</b>		Analysis Date: <b>6/25/2019</b>	SeqNo: <b>1032314</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.227						0	0	30	D
cis-1,2-Dichloroethene	0.154	0.181						0.1595	3.55	30	DJ
Trichloroethene (TCE)	0.157	0.181						0.1649	5.19	30	DJ
Tetrachloroethene (PCE)	1.97	0.227						2.012	1.86	30	D
Surr: Dibromofluoromethane	11.3		11.34		99.4	56.5	129		0		D
Surr: Toluene-d8	11.4		11.34		100	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.5		11.34		102	54.8	168		0		D

**Work Order:** 1906304  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1906304-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/24/2019</b>	RunNo: <b>52260</b>							
Client ID: <b>03-OB-004-26.5</b>	Batch ID: <b>R52260</b>		Analysis Date: <b>6/24/2019</b>	SeqNo: <b>1031971</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.0	0.500						13.53	3.97	20	

Sample ID: <b>1906304-009ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/24/2019</b>	RunNo: <b>52260</b>							
Client ID: <b>03-27-119-26</b>	Batch ID: <b>R52260</b>		Analysis Date: <b>6/24/2019</b>	SeqNo: <b>1031980</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	7.16	0.500						7.244	1.23	20	

Client Name: **PES**

 Work Order Number: **1906304**

 Logged by: **Clare Griggs**

 Date Received: **6/24/2019 3:27:00 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
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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	2.3
Temp Blank	9.8

\* 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: 6/24/19 Page: 1 of 2  
Project Name: AMERICAN LIVEN

Project No: 1413.001.05.402

Collected by: RTM/KSZ

Location: SEATTLE WA

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

PM Email: KSPRINGSTEAD@PESENV.COM

KVIK@PESENV.COM

Laboratory Project No (Internal): 19002304

Special Remarks: ASAP TAT - TUES AM

SELECT LIST: PCB, TC, CIS-1, 2, 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: 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 (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
1 03-08-004-26.5	6/24/19	1347	S	X													ALL ASAP TAT
2 03-08-004-25.5		1351															
3 03-29-004-28		1343															
4 03-29-110-28.5		1402															
5 03-25-110-24		1358															
6 03-29-118-28		1423															
7 03-29-118-26		1425															
8 03-29-119-28		1408															
9 03-27-119-26		1412															
10 B-950-28	X	1500	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): MICA-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.

Retain/Inquired	Date/Time	Received	Date/Time
X	6/24/19 1527	X	6-24-19 1527
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: 6/24/19 Page: 2 of 2

Project Name: AMERICAN UNIV

Project No: 1413.061.05.402

Collected by: SEE PAGE 1

Location: SEE PAGE 1

Report To (PM): SEE PAGE 1

PM Email: SEE PAGE 1

Laboratory Project No (Internal):

Special Remarks:

48 HR TAT

SELECT LIST: PCE, TCE, CIS, DCE, V.C.

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

Client: PES ENVIRONMENTAL  
Address: SEE PAGE 1  
City, State, Zip: SEE PAGE 1  
Telephone: SEE PAGE 1  
Fax: SEE PAGE 1

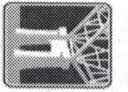
Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1 03-25-109-24	6/24/19	1340	S	X													} 48 HR TAT
2 03-25-118-24		1428															
3 03-23-118-22		1434															
4 03-25-119-24		1415															
5 03-23-119-22		1419	X														
6 TB-062419		1428	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 Sb Se Sr Sn Ti U V Zn  
 \*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide 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 [Signature] Date/Time 6/24/19 1527  
 Received [Signature] Date/Time 6-24-19 1527  
 Relinquished [Signature] Date/Time 6/24/19 1527  
 Received [Signature] Date/Time 6-24-19 1527

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day  
 Same Day (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: 6/24/19 Page: 1 of 2

Project Name: AMERICAN LIVEN

Project No: 1413.001.05.402

Collected by: R.TM / K.SZ

Location: SEATTLE USA

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

PM Email: KSPRINGSTEAD@PESENV.COM

kv: K@PESENV.COM

Laboratory Project No (Internal): 190023024

Special Remarks: ASAPTAT - TOES AM

SELECT LIST: PCB, TC, CIS-1, 2, 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: 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)	PAHs (EPA 8270 / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) Dissolved (D)	Anions (C)***	EDB (8011)	Comments
1 <u>03-08-004-26.5</u>	<u>6/24/19</u>	<u>1347</u>	<u>S</u>	<input checked="" type="checkbox"/>												<u>ALL ASAP TAT</u>
2 <u>03-08-004-25.5</u>		<u>1351</u>														
3 <u>03-29-004-28</u>		<u>1343</u>														
4 <u>03-29-110-28.5</u>		<u>1402</u>														
5 <u>03-25-110-24</u>		<u>1358</u>														
6 <u>03-29-118-28</u>		<u>1423</u>														
7 <u>03-27-118-26</u>		<u>1425</u>														
8 <u>03-27-119-28</u>		<u>1408</u>														
9 <u>03-27-119-26</u>		<u>1412</u>														
10 <u>B-950-228</u>		<u>1500</u>	<u>X</u>													

\*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): MTA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd 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
<u>[Signature]</u>	<u>6/24/19 1527</u>	<u>[Signature]</u>	<u>6-24-19 1527</u>
Relinquished	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>6/24/19 1527</u>	<u>[Signature]</u>	<u>6-24-19 1527</u>

Turn-around Time:  Standard  3 Day  2 Day  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: 6/24/19 Page: 2 of 2

Project Name: AMERICAN LINEN

Project No: 1413.061.05.402

Laboratory Project No (Internal):

Special Remarks: 48 HR TAT

SELECT LIST: PCE, TCE, U.S. 12 DCE,

V.C.

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

Client: PES ENVIRONMENTAL

Address: SEE PAGE 1

City, State, Zip: SEE PAGE 1

Telephone: SEE PAGE 1

Fax: SEE PAGE 1

Collected by: SEE PAGE 1

Location: SEE PAGE 1

Report To (PM): SEE PAGE 1

PM Email: SEE PAGE 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 (DH)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (Cl)**	EDB (8011)	Comments
1 <u>03-25-109-24</u>	<u>6/24/19</u>	<u>1340</u>	<u>S</u>	<input checked="" type="checkbox"/>													
2 <u>03-25-118-24</u>		<u>1428</u>															<u>48 HR TAT</u>
3 <u>03-23-118-22</u>		<u>1434</u>															
4 <u>03-25-119-24</u>		<u>1415</u>															
5 <u>03-23-119-22</u>		<u>1419</u>	<u>X</u>														
6 <u>TB-062419</u>		<u>1428</u>	<u>X</u>														
7 <u>E17-21-TB-30</u>	<u>6/24/19</u>	<u>10:12</u>	<u>S</u>														<u>NOT DAILY FROM 6/24/19 day perm.</u>
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 Iodide 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: [Signature] Date/Time: 6/24/19 1527 Received: [Signature] Date/Time: 6-24-19 1527

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



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: Former American Linen  
Work Order Number: 1909329**

September 23, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 20 sample(s) on 9/20/2019 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.  
Gasoline by NWTPH-Gx  
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

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005  
ORELAP Certification: WA 100009-007 (NELAP Recognized)



**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen  
**Work Order:** 1909329

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1909329-001	SP2-1-920	09/20/2019 10:25 AM	09/20/2019 12:30 PM
1909329-002	SP2-4-920	09/20/2019 10:10 AM	09/20/2019 12:30 PM
1909329-003	SP2-2-920	09/20/2019 9:57 AM	09/20/2019 12:30 PM
1909329-004	SP2-3-920	09/20/2019 10:15 AM	09/20/2019 12:30 PM
1909329-005	SP2-5-920	09/20/2019 9:55 AM	09/20/2019 12:30 PM
1909329-006	N15-2-920	09/20/2019 10:50 AM	09/20/2019 12:30 PM
1909329-007	N15-1-920	09/20/2019 10:55 AM	09/20/2019 12:30 PM
1909329-008	N13-2-920	09/20/2019 11:00 AM	09/20/2019 12:30 PM
1909329-009	N13-1-920	09/20/2019 11:05 AM	09/20/2019 12:30 PM
1909329-010	N11-2-920	09/20/2019 11:07 AM	09/20/2019 12:30 PM
1909329-011	N11-1-920	09/20/2019 11:10 AM	09/20/2019 12:30 PM
1909329-012	N9-2-920	09/20/2019 11:12 AM	09/20/2019 12:30 PM
1909329-013	N9-1-920	09/20/2019 11:15 AM	09/20/2019 12:30 PM
1909329-014	N7-2-920	09/20/2019 11:17 AM	09/20/2019 12:30 PM
1909329-015	N7-1-920	09/20/2019 11:20 AM	09/20/2019 12:30 PM
1909329-016	N8W23-5.5	09/20/2019 11:15 AM	09/20/2019 12:30 PM
1909329-017	N7W23-5.5	09/20/2019 11:20 AM	09/20/2019 12:30 PM
1909329-018	N6W23-5.5	09/20/2019 11:25 AM	09/20/2019 12:30 PM
1909329-019	SP-N8W23	09/20/2019 11:30 AM	09/20/2019 12:30 PM
1909329-020	DNAPL-092019	09/20/2019 9:00 AM	09/20/2019 12:30 PM

---

**CLIENT:** PES Environmental, Inc.  
**Project:** Former 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.

Revision 1:

-VOC dilutions

-PMoist for SP-N8W23 complete

### 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.  
**Project:** Former American Linen

**Lab ID:** 1909329-001

**Collection Date:** 9/20/2019 10:25:00 AM

**Client Sample ID:** SP2-1-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.295	D	mg/Kg-dry	10	9/20/2019 8:10:27 PM
cis-1,2-Dichloroethene	ND	0.236	D	mg/Kg-dry	10	9/20/2019 8:10:27 PM
Trichloroethene (TCE)	ND	0.236	D	mg/Kg-dry	10	9/20/2019 8:10:27 PM
Tetrachloroethene (PCE)	5.96	0.295	D	mg/Kg-dry	10	9/20/2019 8:10:27 PM
Surr: Dibromofluoromethane	95.0	56.5 - 129	D	%Rec	10	9/20/2019 8:10:27 PM
Surr: Toluene-d8	93.5	64.5 - 151	D	%Rec	10	9/20/2019 8:10:27 PM
Surr: 1-Bromo-4-fluorobenzene	96.0	54.8 - 168	D	%Rec	10	9/20/2019 8:10:27 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	10.4	0.500		wt%	1	9/20/2019 3:00:28 PM
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**Lab ID:** 1909329-002

**Collection Date:** 9/20/2019 10:10:00 AM

**Client Sample ID:** SP2-4-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.262	D	mg/Kg-dry	10	9/20/2019 8:41:54 PM
cis-1,2-Dichloroethene	0.135	0.209	DJ	mg/Kg-dry	10	9/20/2019 8:41:54 PM
Trichloroethene (TCE)	ND	0.209	D	mg/Kg-dry	10	9/20/2019 8:41:54 PM
Tetrachloroethene (PCE)	1.75	0.262	D	mg/Kg-dry	10	9/20/2019 8:41:54 PM
Surr: Dibromofluoromethane	95.3	56.5 - 129	D	%Rec	10	9/20/2019 8:41:54 PM
Surr: Toluene-d8	93.3	64.5 - 151	D	%Rec	10	9/20/2019 8:41:54 PM
Surr: 1-Bromo-4-fluorobenzene	94.3	54.8 - 168	D	%Rec	10	9/20/2019 8:41:54 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	9.76	0.500		wt%	1	9/20/2019 3:00:28 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-003

**Collection Date:** 9/20/2019 9:57:00 AM

**Client Sample ID:** SP2-2-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.260	D	mg/Kg-dry	10	9/20/2019 9:13:16 PM
cis-1,2-Dichloroethene	0.637	0.208	D	mg/Kg-dry	10	9/20/2019 9:13:16 PM
Trichloroethene (TCE)	ND	0.208	D	mg/Kg-dry	10	9/20/2019 9:13:16 PM
Tetrachloroethene (PCE)	8.84	0.260	D	mg/Kg-dry	10	9/20/2019 9:13:16 PM
Surr: Dibromofluoromethane	92.7	56.5 - 129	D	%Rec	10	9/20/2019 9:13:16 PM
Surr: Toluene-d8	91.3	64.5 - 151	D	%Rec	10	9/20/2019 9:13:16 PM
Surr: 1-Bromo-4-fluorobenzene	90.8	54.8 - 168	D	%Rec	10	9/20/2019 9:13:16 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	10.0	0.500		wt%	1	9/20/2019 3:00:28 PM
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**Lab ID:** 1909329-004

**Collection Date:** 9/20/2019 10:15:00 AM

**Client Sample ID:** SP2-3-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.294	D	mg/Kg-dry	10	9/20/2019 9:44:37 PM
cis-1,2-Dichloroethene	ND	0.236	D	mg/Kg-dry	10	9/20/2019 9:44:37 PM
Trichloroethene (TCE)	ND	0.236	D	mg/Kg-dry	10	9/20/2019 9:44:37 PM
Tetrachloroethene (PCE)	7.15	0.294	D	mg/Kg-dry	10	9/20/2019 9:44:37 PM
Surr: Dibromofluoromethane	94.8	56.5 - 129	D	%Rec	10	9/20/2019 9:44:37 PM
Surr: Toluene-d8	91.9	64.5 - 151	D	%Rec	10	9/20/2019 9:44:37 PM
Surr: 1-Bromo-4-fluorobenzene	95.6	54.8 - 168	D	%Rec	10	9/20/2019 9:44:37 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	9.73	0.500		wt%	1	9/20/2019 3:00:28 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-005

**Collection Date:** 9/20/2019 9:55:00 AM

**Client Sample ID:** SP2-5-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	9/20/2019 10:15:55 PM
cis-1,2-Dichloroethene	ND	0.186	D	mg/Kg-dry	10	9/20/2019 10:15:55 PM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	9/20/2019 10:15:55 PM
Tetrachloroethene (PCE)	2.12	0.233	D	mg/Kg-dry	10	9/20/2019 10:15:55 PM
Surr: Dibromofluoromethane	95.2	56.5 - 129	D	%Rec	10	9/20/2019 10:15:55 PM
Surr: Toluene-d8	92.6	64.5 - 151	D	%Rec	10	9/20/2019 10:15:55 PM
Surr: 1-Bromo-4-fluorobenzene	95.7	54.8 - 168	D	%Rec	10	9/20/2019 10:15:55 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	9.60	0.500		wt%	1	9/20/2019 3:00:28 PM
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**Lab ID:** 1909329-006

**Collection Date:** 9/20/2019 10:50:00 AM

**Client Sample ID:** N15-2-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.281	D	mg/Kg-dry	10	9/20/2019 11:18:34 PM
cis-1,2-Dichloroethene	ND	0.225	D	mg/Kg-dry	10	9/20/2019 11:18:34 PM
Trichloroethene (TCE)	ND	0.225	D	mg/Kg-dry	10	9/20/2019 11:18:34 PM
Tetrachloroethene (PCE)	5.18	0.281	D	mg/Kg-dry	10	9/20/2019 11:18:34 PM
Surr: Dibromofluoromethane	94.8	56.5 - 129	D	%Rec	10	9/20/2019 11:18:34 PM
Surr: Toluene-d8	92.6	64.5 - 151	D	%Rec	10	9/20/2019 11:18:34 PM
Surr: 1-Bromo-4-fluorobenzene	95.0	54.8 - 168	D	%Rec	10	9/20/2019 11:18:34 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	10.1	0.500		wt%	1	9/20/2019 3:00:28 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-007

**Collection Date:** 9/20/2019 10:55:00 AM

**Client Sample ID:** N15-1-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.275	D	mg/Kg-dry	10	9/20/2019 11:50:02 PM
cis-1,2-Dichloroethene	ND	0.220	D	mg/Kg-dry	10	9/20/2019 11:50:02 PM
Trichloroethene (TCE)	ND	0.220	D	mg/Kg-dry	10	9/20/2019 11:50:02 PM
Tetrachloroethene (PCE)	0.247	0.275	DJ	mg/Kg-dry	10	9/20/2019 11:50:02 PM
Surr: Dibromofluoromethane	96.3	56.5 - 129	D	%Rec	10	9/20/2019 11:50:02 PM
Surr: Toluene-d8	93.9	64.5 - 151	D	%Rec	10	9/20/2019 11:50:02 PM
Surr: 1-Bromo-4-fluorobenzene	93.5	54.8 - 168	D	%Rec	10	9/20/2019 11:50:02 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	8.99	0.500		wt%	1	9/20/2019 3:00:28 PM
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**Lab ID:** 1909329-008

**Collection Date:** 9/20/2019 11:00:00 AM

**Client Sample ID:** N13-2-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.279	D	mg/Kg-dry	10	9/21/2019 12:21:27 AM
cis-1,2-Dichloroethene	ND	0.223	D	mg/Kg-dry	10	9/21/2019 12:21:27 AM
Trichloroethene (TCE)	ND	0.223	D	mg/Kg-dry	10	9/21/2019 12:21:27 AM
Tetrachloroethene (PCE)	0.996	0.279	D	mg/Kg-dry	10	9/21/2019 12:21:27 AM
Surr: Dibromofluoromethane	96.5	56.5 - 129	D	%Rec	10	9/21/2019 12:21:27 AM
Surr: Toluene-d8	94.0	64.5 - 151	D	%Rec	10	9/21/2019 12:21:27 AM
Surr: 1-Bromo-4-fluorobenzene	94.4	54.8 - 168	D	%Rec	10	9/21/2019 12:21:27 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	8.64	0.500		wt%	1	9/20/2019 3:00:28 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-009

**Collection Date:** 9/20/2019 11:05:00 AM

**Client Sample ID:** N13-1-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	9/21/2019 12:52:59 AM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	9/21/2019 12:52:59 AM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	9/21/2019 12:52:59 AM
Tetrachloroethene (PCE)	ND	0.253	D	mg/Kg-dry	10	9/21/2019 12:52:59 AM
Surr: Dibromofluoromethane	95.8	56.5 - 129	D	%Rec	10	9/21/2019 12:52:59 AM
Surr: Toluene-d8	94.0	64.5 - 151	D	%Rec	10	9/21/2019 12:52:59 AM
Surr: 1-Bromo-4-fluorobenzene	93.8	54.8 - 168	D	%Rec	10	9/21/2019 12:52:59 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	10.1	0.500		wt%	1	9/20/2019 3:00:28 PM
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**Lab ID:** 1909329-010

**Collection Date:** 9/20/2019 11:07:00 AM

**Client Sample ID:** N11-2-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.287	D	mg/Kg-dry	10	9/21/2019 1:24:16 AM
cis-1,2-Dichloroethene	ND	0.230	D	mg/Kg-dry	10	9/21/2019 1:24:16 AM
Trichloroethene (TCE)	ND	0.230	D	mg/Kg-dry	10	9/21/2019 1:24:16 AM
Tetrachloroethene (PCE)	ND	0.287	D	mg/Kg-dry	10	9/21/2019 1:24:16 AM
Surr: Dibromofluoromethane	95.4	56.5 - 129	D	%Rec	10	9/21/2019 1:24:16 AM
Surr: Toluene-d8	94.3	64.5 - 151	D	%Rec	10	9/21/2019 1:24:16 AM
Surr: 1-Bromo-4-fluorobenzene	94.6	54.8 - 168	D	%Rec	10	9/21/2019 1:24:16 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	12.2	0.500		wt%	1	9/20/2019 3:00:28 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-011

**Collection Date:** 9/20/2019 11:10:00 AM

**Client Sample ID:** N11-1-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.281	D	mg/Kg-dry	10	9/21/2019 1:55:44 AM
cis-1,2-Dichloroethene	ND	0.225	D	mg/Kg-dry	10	9/21/2019 1:55:44 AM
Trichloroethene (TCE)	ND	0.225	D	mg/Kg-dry	10	9/21/2019 1:55:44 AM
Tetrachloroethene (PCE)	ND	0.281	D	mg/Kg-dry	10	9/21/2019 1:55:44 AM
Surr: Dibromofluoromethane	96.4	56.5 - 129	D	%Rec	10	9/21/2019 1:55:44 AM
Surr: Toluene-d8	92.9	64.5 - 151	D	%Rec	10	9/21/2019 1:55:44 AM
Surr: 1-Bromo-4-fluorobenzene	94.0	54.8 - 168	D	%Rec	10	9/21/2019 1:55:44 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	9.64	0.500		wt%	1	9/20/2019 3:00:28 PM
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**Lab ID:** 1909329-012

**Collection Date:** 9/20/2019 11:12:00 AM

**Client Sample ID:** N9-2-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.140	D	mg/Kg-dry	10	9/21/2019 2:27:12 AM
cis-1,2-Dichloroethene	ND	0.112	D	mg/Kg-dry	10	9/21/2019 2:27:12 AM
Trichloroethene (TCE)	ND	0.112	D	mg/Kg-dry	10	9/21/2019 2:27:12 AM
Tetrachloroethene (PCE)	ND	0.140	D	mg/Kg-dry	10	9/21/2019 2:27:12 AM
Surr: Dibromofluoromethane	95.6	56.5 - 129	D	%Rec	10	9/21/2019 2:27:12 AM
Surr: Toluene-d8	93.0	64.5 - 151	D	%Rec	10	9/21/2019 2:27:12 AM
Surr: 1-Bromo-4-fluorobenzene	95.3	54.8 - 168	D	%Rec	10	9/21/2019 2:27:12 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	10.8	0.500		wt%	1	9/20/2019 3:00:28 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-013

**Collection Date:** 9/20/2019 11:15:00 AM

**Client Sample ID:** N9-1-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	9/21/2019 2:58:33 AM
cis-1,2-Dichloroethene	ND	0.186	D	mg/Kg-dry	10	9/21/2019 2:58:33 AM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	9/21/2019 2:58:33 AM
Tetrachloroethene (PCE)	0.312	0.233	D	mg/Kg-dry	10	9/21/2019 2:58:33 AM
Surr: Dibromofluoromethane	96.3	56.5 - 129	D	%Rec	10	9/21/2019 2:58:33 AM
Surr: Toluene-d8	92.8	64.5 - 151	D	%Rec	10	9/21/2019 2:58:33 AM
Surr: 1-Bromo-4-fluorobenzene	94.4	54.8 - 168	D	%Rec	10	9/21/2019 2:58:33 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	11.4	0.500		wt%	1	9/20/2019 3:00:28 PM
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**Lab ID:** 1909329-014

**Collection Date:** 9/20/2019 11:17:00 AM

**Client Sample ID:** N7-2-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.245	D	mg/Kg-dry	10	9/21/2019 3:30:05 AM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	9/21/2019 3:30:05 AM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	9/21/2019 3:30:05 AM
Tetrachloroethene (PCE)	0.137	0.245	DJ	mg/Kg-dry	10	9/21/2019 3:30:05 AM
Surr: Dibromofluoromethane	95.8	56.5 - 129	D	%Rec	10	9/21/2019 3:30:05 AM
Surr: Toluene-d8	93.1	64.5 - 151	D	%Rec	10	9/21/2019 3:30:05 AM
Surr: 1-Bromo-4-fluorobenzene	93.5	54.8 - 168	D	%Rec	10	9/21/2019 3:30:05 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	10.0	0.500		wt%	1	9/20/2019 3:00:28 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-015

**Collection Date:** 9/20/2019 11:20:00 AM

**Client Sample ID:** N7-1-920

**Matrix:** Soil

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

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	0.273	D	mg/Kg-dry	10	9/21/2019 5:35:49 AM
cis-1,2-Dichloroethene	ND	0.218	D	mg/Kg-dry	10	9/21/2019 5:35:49 AM
Trichloroethene (TCE)	ND	0.218	D	mg/Kg-dry	10	9/21/2019 5:35:49 AM
Tetrachloroethene (PCE)	ND	0.273	D	mg/Kg-dry	10	9/21/2019 5:35:49 AM
Surr: Dibromofluoromethane	95.7	56.5 - 129	D	%Rec	10	9/21/2019 5:35:49 AM
Surr: Toluene-d8	93.1	64.5 - 151	D	%Rec	10	9/21/2019 5:35:49 AM
Surr: 1-Bromo-4-fluorobenzene	94.4	54.8 - 168	D	%Rec	10	9/21/2019 5:35:49 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54048

Analyst: CG

Percent Moisture	7.99	0.500		wt%	1	9/20/2019 3:00:28 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-016

**Collection Date:** 9/20/2019 11:15:00 AM

**Client Sample ID:** N8W23-5.5

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u></b>				Batch ID: 25886		Analyst: IH
Diesel (Fuel Oil)	ND	22.4		mg/Kg-dry	1	9/20/2019 9:12:42 PM
Heavy Oil	ND	55.9		mg/Kg-dry	1	9/20/2019 9:12:42 PM
Surr: 2-Fluorobiphenyl	97.4	50 - 150		%Rec	1	9/20/2019 9:12:42 PM
Surr: o-Terphenyl	100	50 - 150		%Rec	1	9/20/2019 9:12:42 PM
<b><u>Gasoline by NWTPH-Gx</u></b>				Batch ID: 25878		Analyst: KT
Gasoline	ND	59.2	D	mg/Kg-dry	10	9/21/2019 6:38:47 AM
Surr: Toluene-d8	101	65 - 135	D	%Rec	10	9/21/2019 6:38:47 AM
Surr: 4-Bromofluorobenzene	92.2	65 - 135	D	%Rec	10	9/21/2019 6:38:47 AM
<b><u>Volatile Organic Compounds by EPA Method 8260D</u></b>				Batch ID: 25878		Analyst: KT
Vinyl chloride	ND	0.296	D	mg/Kg-dry	10	9/21/2019 6:38:47 AM
cis-1,2-Dichloroethene	ND	0.237	D	mg/Kg-dry	10	9/21/2019 6:38:47 AM
Trichloroethene (TCE)	ND	0.237	D	mg/Kg-dry	10	9/21/2019 6:38:47 AM
Tetrachloroethene (PCE)	ND	0.296	D	mg/Kg-dry	10	9/21/2019 6:38:47 AM
Surr: Dibromofluoromethane	95.8	56.5 - 129	D	%Rec	10	9/21/2019 6:38:47 AM
Surr: Toluene-d8	93.9	64.5 - 151	D	%Rec	10	9/21/2019 6:38:47 AM
Surr: 1-Bromo-4-fluorobenzene	94.0	54.8 - 168	D	%Rec	10	9/21/2019 6:38:47 AM
<b><u>Sample Moisture (Percent Moisture)</u></b>				Batch ID: R54048		Analyst: CG
Percent Moisture	10.2	0.500		wt%	1	9/20/2019 3:00:28 PM



**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-017

**Collection Date:** 9/20/2019 11:20:00 AM

**Client Sample ID:** N7W23-5.5

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u></b>				Batch ID: 25886		Analyst: IH
Diesel (Fuel Oil)	ND	23.9		mg/Kg-dry	1	9/20/2019 9:42:27 PM
Heavy Oil	ND	59.9		mg/Kg-dry	1	9/20/2019 9:42:27 PM
Surr: 2-Fluorobiphenyl	112	50 - 150		%Rec	1	9/20/2019 9:42:27 PM
Surr: o-Terphenyl	116	50 - 150		%Rec	1	9/20/2019 9:42:27 PM
<b><u>Gasoline by NWTPH-Gx</u></b>				Batch ID: 25878		Analyst: KT
Gasoline	ND	67.7	D	mg/Kg-dry	10	9/21/2019 7:10:20 AM
Surr: Toluene-d8	99.6	65 - 135	D	%Rec	10	9/21/2019 7:10:20 AM
Surr: 4-Bromofluorobenzene	91.9	65 - 135	D	%Rec	10	9/21/2019 7:10:20 AM
<b><u>Volatile Organic Compounds by EPA Method 8260D</u></b>				Batch ID: 25878		Analyst: KT
Vinyl chloride	ND	0.339	D	mg/Kg-dry	10	9/21/2019 7:10:20 AM
cis-1,2-Dichloroethene	ND	0.271	D	mg/Kg-dry	10	9/21/2019 7:10:20 AM
Trichloroethene (TCE)	ND	0.271	D	mg/Kg-dry	10	9/21/2019 7:10:20 AM
Tetrachloroethene (PCE)	117	3.39	D	mg/Kg-dry	100	9/23/2019 8:03:39 AM
Surr: Dibromofluoromethane	96.7	56.5 - 129	D	%Rec	10	9/21/2019 7:10:20 AM
Surr: Toluene-d8	95.3	64.5 - 151	D	%Rec	10	9/21/2019 7:10:20 AM
Surr: 1-Bromo-4-fluorobenzene	93.6	54.8 - 168	D	%Rec	10	9/21/2019 7:10:20 AM
<b><u>Sample Moisture (Percent Moisture)</u></b>				Batch ID: R54048		Analyst: CG
Percent Moisture	17.5	0.500		wt%	1	9/20/2019 3:00:28 PM



**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-018

**Collection Date:** 9/20/2019 11:25:00 AM

**Client Sample ID:** N6W23-5.5

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u></b>				Batch ID: 25886		Analyst: IH
Diesel (Fuel Oil)	ND	21.8		mg/Kg-dry	1	9/20/2019 10:12:16 PM
Heavy Oil	ND	54.5		mg/Kg-dry	1	9/20/2019 10:12:16 PM
Surr: 2-Fluorobiphenyl	100	50 - 150		%Rec	1	9/20/2019 10:12:16 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	9/20/2019 10:12:16 PM
<b><u>Gasoline by NWTPH-Gx</u></b>				Batch ID: 25878		Analyst: KT
Gasoline	ND	53.8	D	mg/Kg-dry	10	9/21/2019 7:41:50 AM
Surr: Toluene-d8	102	65 - 135	D	%Rec	10	9/21/2019 7:41:50 AM
Surr: 4-Bromofluorobenzene	91.1	65 - 135	D	%Rec	10	9/21/2019 7:41:50 AM
<b><u>Volatile Organic Compounds by EPA Method 8260D</u></b>				Batch ID: 25878		Analyst: KT
Vinyl chloride	ND	0.269	D	mg/Kg-dry	10	9/21/2019 7:41:50 AM
cis-1,2-Dichloroethene	ND	0.215	D	mg/Kg-dry	10	9/21/2019 7:41:50 AM
Trichloroethene (TCE)	0.174	0.215	DJ	mg/Kg-dry	10	9/21/2019 7:41:50 AM
Tetrachloroethene (PCE)	25.9	2.69	D	mg/Kg-dry	100	9/23/2019 8:35:25 AM
Surr: Dibromofluoromethane	96.5	56.5 - 129	D	%Rec	10	9/21/2019 7:41:50 AM
Surr: Toluene-d8	94.2	64.5 - 151	D	%Rec	10	9/21/2019 7:41:50 AM
Surr: 1-Bromo-4-fluorobenzene	92.8	54.8 - 168	D	%Rec	10	9/21/2019 7:41:50 AM
<b><u>Sample Moisture (Percent Moisture)</u></b>				Batch ID: R54048		Analyst: CG
Percent Moisture	9.30	0.500		wt%	1	9/20/2019 3:00:28 PM



**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-019

**Collection Date:** 9/20/2019 11:30:00 AM

**Client Sample ID:** SP-N8W23

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u></b>				Batch ID: 25886		Analyst: IH
Diesel (Fuel Oil)	ND	23.7		mg/Kg-dry	1	9/20/2019 10:42:05 PM
Heavy Oil	ND	59.3		mg/Kg-dry	1	9/20/2019 10:42:05 PM
Surr: 2-Fluorobiphenyl	98.3	50 - 150		%Rec	1	9/20/2019 10:42:05 PM
Surr: o-Terphenyl	102	50 - 150		%Rec	1	9/20/2019 10:42:05 PM
<b><u>Gasoline by NWTPH-Gx</u></b>				Batch ID: 25878		Analyst: KT
Gasoline	ND	50.3	D	mg/Kg-dry	10	9/21/2019 8:13:18 AM
Surr: Toluene-d8	100	65 - 135	D	%Rec	10	9/21/2019 8:13:18 AM
Surr: 4-Bromofluorobenzene	92.4	65 - 135	D	%Rec	10	9/21/2019 8:13:18 AM
<b><u>Volatile Organic Compounds by EPA Method 8260D</u></b>				Batch ID: 25878		Analyst: KT
Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	9/21/2019 8:13:18 AM
cis-1,2-Dichloroethene	ND	0.201	D	mg/Kg-dry	10	9/21/2019 8:13:18 AM
Trichloroethene (TCE)	ND	0.201	D	mg/Kg-dry	10	9/21/2019 8:13:18 AM
Tetrachloroethene (PCE)	17.1	0.251	D	mg/Kg-dry	10	9/21/2019 8:13:18 AM
Surr: Dibromofluoromethane	97.1	56.5 - 129	D	%Rec	10	9/21/2019 8:13:18 AM
Surr: Toluene-d8	94.8	64.5 - 151	D	%Rec	10	9/21/2019 8:13:18 AM
Surr: 1-Bromo-4-fluorobenzene	94.1	54.8 - 168	D	%Rec	10	9/21/2019 8:13:18 AM
<b><u>Sample Moisture (Percent Moisture)</u></b>				Batch ID: R54058		Analyst: CJ
Percent Moisture	15.8	0.500		wt%	1	9/23/2019 8:07:26 AM



**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**Lab ID:** 1909329-020

**Collection Date:** 9/20/2019 9:00:00 AM

**Client Sample ID:** DNAPL-092019

**Matrix:** Product

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 25886

Analyst: IH

Diesel (Fuel Oil)	ND	400		mg/Kg	1	9/20/2019 11:11:57 PM
Diesel Range Organics (C12-C24)	2,460	400		mg/Kg	1	9/20/2019 11:11:57 PM
Heavy Oil	4,620	1,000		mg/Kg	1	9/20/2019 11:11:57 PM
Surr: 2-Fluorobiphenyl	96.2	50 - 150		%Rec	1	9/20/2019 11:11:57 PM
Surr: o-Terphenyl	96.3	50 - 150		%Rec	1	9/20/2019 11:11:57 PM

**NOTES:**

DRO - Indicates the presence of unresolved compounds eluting from dodecane through tetracosane (~C12-C24).

**Gasoline by NWTPH-Gx**

Batch ID: 25878

Analyst: KT

Gasoline	ND	4,070	D	mg/Kg	100	9/21/2019 8:44:48 AM
Surr: Toluene-d8	93.0	65 - 135	D	%Rec	100	9/21/2019 8:44:48 AM
Surr: 4-Bromofluorobenzene	92.4	65 - 135	D	%Rec	100	9/21/2019 8:44:48 AM

**Volatile Organic Compounds by EPA Method 8260D**

Batch ID: 25878

Analyst: KT

Vinyl chloride	ND	20.4	D	mg/Kg	100	9/21/2019 8:44:48 AM
cis-1,2-Dichloroethene	ND	16.3	D	mg/Kg	100	9/21/2019 8:44:48 AM
Trichloroethene (TCE)	32.5	16.3	D	mg/Kg	100	9/21/2019 8:44:48 AM
Tetrachloroethene (PCE)	758,000	4,070	DE	mg/Kg	20000	9/23/2019 9:07:00 AM
Surr: Dibromofluoromethane	96.7	56.5 - 129	D	%Rec	100	9/21/2019 8:44:48 AM
Surr: Toluene-d8	95.3	64.5 - 151	D	%Rec	100	9/21/2019 8:44:48 AM
Surr: 1-Bromo-4-fluorobenzene	94.1	54.8 - 168	D	%Rec	100	9/21/2019 8:44:48 AM

**NOTES:**

E - Estimated value. The amount exceeds the linear working range of the instrument.

**Work Order:** 1909329  
**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID: <b>MB-25886</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54059</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>25886</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070591</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	16.8		20.00		84.2	50	150				
Surr: o-Terphenyl	17.9		20.00		89.6	50	150				

Sample ID: <b>LCS-25886</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54059</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>25886</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070592</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	530	20.0	500.0	0	106	65	135				
Surr: 2-Fluorobiphenyl	19.9		20.00		99.4	50	150				
Surr: o-Terphenyl	19.0		20.00		95.1	50	150				

Sample ID: <b>1909301-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54059</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>25886</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070594</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	19.2						0	0	30	
Diesel Range Organics (C12-C24)	57.0	19.2						30.33	61.1	30	R
Heavy Oil	ND	48.0						0	0	30	
Heavy Oil Range Organics (C24-37)	118	48.0						98.93	17.3	30	
Surr: 2-Fluorobiphenyl	22.7		19.21		118	50	150		0		
Surr: o-Terphenyl	22.5		19.21		117	50	150		0		

**NOTES:**

R - High RPD due to suspected sample inhomogeneity.  
DRO - Indicates the presence of unresolved compounds eluting from dodecane through tetracosane (~C12-C24).  
Heavy Oil Range Organics - Indicates the presence of unresolved compounds in the Lube+ Oil ranges.

**Work Order:** 1909329  
**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID: <b>1909301-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54059</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25886</b>		Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070595</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	497	20.2	506.1	30.33	92.2	65	135				
Surr: 2-Fluorobiphenyl	20.4		20.24		101	50	150				
Surr: o-Terphenyl	19.4		20.24		96.0	50	150				

Sample ID: <b>1909301-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54059</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25886</b>		Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070596</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	496	19.6	490.2	30.33	94.9	65	135	497.0	0.273	30	
Surr: 2-Fluorobiphenyl	23.8		19.61		122	50	150		0		
Surr: o-Terphenyl	22.7		19.61		116	50	150		0		

**Work Order:** 1909329  
**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>LCS-25878</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54057</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>25878</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070562</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	23.6	5.00	25.00	0	94.5	65	135				
Surr: Toluene-d8	1.21		1.250		97.0	65	135				
Surr: 4-Bromofluorobenzene	1.15		1.250		91.7	65	135				

Sample ID: <b>MB-25878</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54057</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>25878</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070563</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	1.27		1.250		102	65	135				
Surr: 4-Bromofluorobenzene	1.15		1.250		91.7	65	135				

Sample ID: <b>1909329-005BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54057</b>					
Client ID: <b>SP2-5-920</b>	Batch ID: <b>25878</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070552</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	46.6						0	0	30	D
Surr: Toluene-d8	12.0		11.64		103	65	135		0		D
Surr: 4-Bromofluorobenzene	10.8		11.64		92.5	65	135		0		D

Sample ID: <b>1909329-015BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54057</b>					
Client ID: <b>N7-1-920</b>	Batch ID: <b>25878</b>				Analysis Date: <b>9/21/2019</b>	SeqNo: <b>1070554</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	54.5						0	0	30	D
Surr: Toluene-d8	13.9		13.63		102	65	135		0		D
Surr: 4-Bromofluorobenzene	12.7		13.63		93.1	65	135		0		D

Work Order: 1909329  
 CLIENT: PES Environmental, Inc.  
 Project: Former American Linen

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>1909329-019BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54057</b>							
Client ID: <b>SP-N8W23</b>	Batch ID: <b>25878</b>	Analysis Date: <b>9/21/2019</b>	SeqNo: <b>1070555</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	236	50.3	251.4	0	94.0	65	135				D
Surr: Toluene-d8	12.8		12.57		102	65	135				D
Surr: 4-Bromofluorobenzene	11.8		12.57		94.0	65	135				D

Sample ID: <b>1909329-019BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54057</b>							
Client ID: <b>SP-N8W23</b>	Batch ID: <b>25878</b>	Analysis Date: <b>9/21/2019</b>	SeqNo: <b>1070556</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	251	50.3	251.4	0	100	65	135	236.3	6.17	30	D
Surr: Toluene-d8	12.8		12.57		101	65	135		0		D
Surr: 4-Bromofluorobenzene	11.7		12.57		93.5	65	135		0		D

Work Order: 1909329  
 CLIENT: PES Environmental, Inc.  
 Project: Former American Linen

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

Sample ID: <b>LCS-25878</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54056</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>25878</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070544</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.994	0.0250	1.000	0	99.4	43.4	151				
cis-1,2-Dichloroethene	0.989	0.0200	1.000	0	98.9	71.3	135				
Trichloroethene (TCE)	0.993	0.0200	1.000	0	99.3	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.19		1.250		95.1	56.5	129				
Surr: Toluene-d8	1.20		1.250		95.7	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.8	54.8	168				

Sample ID: <b>MB-25878</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54056</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>25878</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070545</b>					
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	1.11		1.250		88.8	56.5	129				
Surr: Toluene-d8	1.16		1.250		93.0	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.17		1.250		93.4	54.8	168				

Sample ID: <b>1909329-005BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>9/20/2019</b>	RunNo: <b>54056</b>					
Client ID: <b>SP2-5-920</b>	Batch ID: <b>25878</b>				Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070525</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.233						0	0	30	D
cis-1,2-Dichloroethene	ND	0.186						0	0	30	D
Trichloroethene (TCE)	ND	0.186						0	0	30	D
Tetrachloroethene (PCE)	2.10	0.233						2.118	0.920	30	D
Surr: Dibromofluoromethane	11.1		11.64		95.7	56.5	129		0		D
Surr: Toluene-d8	10.9		11.64		93.5	64.5	151		0		D

**Work Order:** 1909329  
**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

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

Sample ID: <b>1909329-005BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54056</b>							
Client ID: <b>SP2-5-920</b>	Batch ID: <b>25878</b>		Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070525</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	11.0		11.64		94.3	54.8	168		0		D

Sample ID: <b>1909329-015BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54056</b>							
Client ID: <b>N7-1-920</b>	Batch ID: <b>25878</b>		Analysis Date: <b>9/21/2019</b>	SeqNo: <b>1070536</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.273						0	0	30	D
cis-1,2-Dichloroethene	ND	0.218						0	0	30	D
Trichloroethene (TCE)	ND	0.218						0	0	30	D
Tetrachloroethene (PCE)	ND	0.273						0	0	30	D
Surr: Dibromofluoromethane	13.1		13.63		96.3	56.5	129		0		D
Surr: Toluene-d8	12.7		13.63		93.4	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.9		13.63		94.8	54.8	168		0		D

Sample ID: <b>1909329-017BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54056</b>							
Client ID: <b>N7W23-5.5</b>	Batch ID: <b>25878</b>		Analysis Date: <b>9/21/2019</b>	SeqNo: <b>1070537</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.46	0.339	13.54	0	69.8	43.6	150				D
cis-1,2-Dichloroethene	12.1	0.271	13.54	0	89.2	58.6	136				D
Trichloroethene (TCE)	12.7	0.271	13.54	0	93.4	61.6	147				D
Tetrachloroethene (PCE)	112	0.339	13.54	105.0	48.6	35.6	158				DE
Surr: Dibromofluoromethane	16.7		16.93		98.5	56.5	129				D
Surr: Toluene-d8	16.4		16.93		96.9	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	16.1		16.93		95.1	54.8	168				D

**NOTES:**

E - Estimated value. The amount exceeds the linear working range of the instrument.

**Work Order:** 1909329  
**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

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

Sample ID: <b>1909329-017BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54056</b>							
Client ID: <b>N7W23-5.5</b>	Batch ID: <b>25878</b>		Analysis Date: <b>9/21/2019</b>	SeqNo: <b>1070538</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	10.1	0.339	13.54	0	74.5	43.6	150	9.460	6.46	30	D
cis-1,2-Dichloroethene	12.4	0.271	13.54	0	91.6	58.6	136	12.08	2.72	30	D
Trichloroethene (TCE)	13.1	0.271	13.54	0	96.4	61.6	147	12.65	3.16	30	D
Tetrachloroethene (PCE)	120	0.339	13.54	105.0	113	35.6	158	111.6	7.54	30	DE
Surr: Dibromofluoromethane	16.5		16.93		97.5	56.5	129		0		D
Surr: Toluene-d8	16.2		16.93		95.7	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	16.3		16.93		96.1	54.8	168		0		D

**NOTES:**

E - Estimated value. The amount exceeds the linear working range of the instrument.

**Work Order:** 1909329  
**CLIENT:** PES Environmental, Inc.  
**Project:** Former American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1909329-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54048</b>							
Client ID: <b>SP2-2-920</b>	Batch ID: <b>R54048</b>	Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070348</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	9.59	0.500						10.04	4.54	20	

Sample ID: <b>1909329-016ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>9/20/2019</b>	RunNo: <b>54048</b>							
Client ID: <b>N8W23-5.5</b>	Batch ID: <b>R54048</b>	Analysis Date: <b>9/20/2019</b>	SeqNo: <b>1070362</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	8.87	0.500						10.22	14.2	20	

Sample ID: <b>1909233-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>9/23/2019</b>	RunNo: <b>54058</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R54058</b>	Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1070569</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	6.65	0.500						7.063	6.05	20	

Sample ID: <b>1909285-011ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>9/23/2019</b>	RunNo: <b>54058</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R54058</b>	Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1070581</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	15.9	0.500						14.30	10.6	20	

Client Name: **PES**

 Work Order Number: **1909329**

 Logged by: **Carissa True**

 Date Received: **9/20/2019 12:30:00 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
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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler 1	10.6
Sample 1	2.9

\* 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

**Client:** PBS Environmental, Inc  
**Address:** 1215 4th Ave Suite 1350  
**City, State, zip:** \_\_\_\_\_  
**Telephone:** \_\_\_\_\_  
**Fax:** \_\_\_\_\_

**Date:** 9/20/19 **Page:** 1 **of:** 2  
**Project Name:** Former American Lines  
**Project No.:** 1413, 00105, 310  
**Collected by:** C. DeBoer, JAP, K. Polysted  
**Location:** Seattle WA  
**Report To (PM):** Dan Peterson; Brian O'Neal  
**PM Email:** boned@pbcenv.com

**Laboratory Project No (internal):** 1909329  
**Special Remarks:**  
PCE, TCE, DCE, VC  
Standard dilution  
**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		BTX		Gasoline Range Organics (GX)		Hydrocarbon Identification (HID)		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	
				✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓			
1 SPA-1-920	9/20/19	1025	Soil																												
2 SPA-2-4-920																															
3 SPA-2-2-920																															
4 SPA-2-3-920																															
5 SPA-2-5-920																															
6 N15-2-920																															
7 N15-1-920																															
8 N13-2-920																															
9 N13-2-920																															
10 N11-2-920																															

**\*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 backsides of this Agreement.

**Turn-around Time:**  
 Standard  
 3 Day  
 2 Day  
 Next Day  
 Same Day (specify) ASAP Mon-Ku

Relinquished	Date/Time	Received	Date/Time
x	<u>9/20/19</u>	x	<u>9/20/19</u>
Relinquished	Date/Time	Received	Date/Time
x	<u>9/20/19</u>	x	<u>9/20/19</u>



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

# Chain of Custody Record & Laboratory Services Agreement

**Client:** PES Services Monthly Inc.  
**Address:** 1215 4th Ave Suite 1350  
**City, State, zip:** Seattle, WA 98161  
**Telephone:** (206) 529-3480  
**Fax:** (206) 529-3485

**Date:** 9/20/19 **Page:** 2 **of:** 2  
**Project Name:** Former American Line  
**Project No.:** 1413.001.05.310  
**Collected by:** CSD, SAD, KWS  
**Location:** Seattle, WA  
**Report To (PM):** Brian O'Neal  
**PM Email:** boroal@pesserv.com

**Laboratory Project No (Internal):** 1909329  
**Special Remarks:** PCE, TCE, SDC, VC Standard Addition  
**Sample Disposal:**  Return to client  Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes										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 (Cl)***	EDB (8011)	
1 N11-1-920	9/20/19	1110	Soil															
2 N9-a-920		1112																
3 N9-1-920		1115																
4 N7-a-920		1117																
5 N7-1-920		1120																
6 N8W23-5.5		1115																
7 N7W23-5.5		1120																
8 N6W23-5.5		1125																
9 SP-N8W23		1130																
10 DUAPL-092019		0900	P															

**Matrix:** A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SI = 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 9/20/19 12:30  
**Received:** Date/Time 9/20/19 12:30  
**Reinquired:** Date/Time 9/20/19 12:30

**Turn-around Time:**  Standard  3 Day  2 Day  Next Day  
Same Day (specify) Mon AM

www.fremontanalytical.com



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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: 1909345**

September 24, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 8 sample(s) on 9/23/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 09/24/2019

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1909345

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1909345-001	W23 N5-6	09/23/2019 10:52 AM	09/23/2019 3:09 PM
1909345-002	W24 N6-6	09/23/2019 10:57 AM	09/23/2019 3:09 PM
1909345-003	W22 N6-6	09/23/2019 11:03 AM	09/23/2019 3:09 PM
1909345-004	W23 N6-6	09/23/2019 11:08 AM	09/23/2019 3:09 PM
1909345-005	W22 N6-4	09/23/2019 2:03 PM	09/23/2019 3:09 PM
1909345-006	W24 N6-5	09/23/2019 2:08 PM	09/23/2019 3:09 PM
1909345-007	W22 N6-5	09/23/2019 2:15 PM	09/23/2019 3:09 PM
1909345-008	Stockpile-1-092319	09/23/2019 2:40 PM	09/23/2019 3:09 PM

**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

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**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.  
**Project:** American Linen

**Lab ID:** 1909345-001

**Collection Date:** 9/23/2019 10:52:00 AM

**Client Sample ID:** W23 N5-6

**Matrix:** Soil

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

Batch ID: 25907

Analyst: KT

Vinyl chloride	ND	0.244	D	mg/Kg-dry	10	9/24/2019 12:30:00 AM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	9/24/2019 12:30:00 AM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	9/24/2019 12:30:00 AM
Tetrachloroethene (PCE)	ND	0.244	D	mg/Kg-dry	10	9/24/2019 12:30:00 AM
Surr: Dibromofluoromethane	93.7	56.5 - 129	D	%Rec	10	9/24/2019 12:30:00 AM
Surr: Toluene-d8	96.8	64.5 - 151	D	%Rec	10	9/24/2019 12:30:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.9	54.8 - 168	D	%Rec	10	9/24/2019 12:30:00 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54090

Analyst: ZR

Percent Moisture	14.4	0.500		wt%	1	9/23/2019 5:30:09 PM
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**Lab ID:** 1909345-002

**Collection Date:** 9/23/2019 10:57:00 AM

**Client Sample ID:** W24 N6-6

**Matrix:** Soil

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

Batch ID: 25907

Analyst: KT

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	9/24/2019 1:00:10 AM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	9/24/2019 1:00:10 AM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	9/24/2019 1:00:10 AM
Tetrachloroethene (PCE)	ND	0.253	D	mg/Kg-dry	10	9/24/2019 1:00:10 AM
Surr: Dibromofluoromethane	95.2	56.5 - 129	D	%Rec	10	9/24/2019 1:00:10 AM
Surr: Toluene-d8	97.3	64.5 - 151	D	%Rec	10	9/24/2019 1:00:10 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	54.8 - 168	D	%Rec	10	9/24/2019 1:00:10 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54090

Analyst: ZR

Percent Moisture	12.0	0.500		wt%	1	9/23/2019 5:30:09 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1909345-003

**Collection Date:** 9/23/2019 11:03:00 AM

**Client Sample ID:** W22 N6-6

**Matrix:** Soil

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

Batch ID: 25907

Analyst: KT

Vinyl chloride	ND	0.260	D	mg/Kg-dry	10	9/24/2019 1:30:19 AM
cis-1,2-Dichloroethene	ND	0.208	D	mg/Kg-dry	10	9/24/2019 1:30:19 AM
Trichloroethene (TCE)	ND	0.208	D	mg/Kg-dry	10	9/24/2019 1:30:19 AM
Tetrachloroethene (PCE)	2,010	26.0	D	mg/Kg-dry	1000	9/24/2019 8:54:46 AM
Surr: Dibromofluoromethane	89.0	56.5 - 129	D	%Rec	10	9/24/2019 1:30:19 AM
Surr: Toluene-d8	96.1	64.5 - 151	D	%Rec	10	9/24/2019 1:30:19 AM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	9/24/2019 1:30:19 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54090

Analyst: ZR

Percent Moisture	12.7	0.500		wt%	1	9/23/2019 5:30:09 PM
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**Lab ID:** 1909345-004

**Collection Date:** 9/23/2019 11:08:00 AM

**Client Sample ID:** W23 N6-6

**Matrix:** Soil

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

Batch ID: 25907

Analyst: KT

Vinyl chloride	ND	0.255	D	mg/Kg-dry	10	9/24/2019 7:24:21 AM
cis-1,2-Dichloroethene	ND	0.204	D	mg/Kg-dry	10	9/24/2019 7:24:21 AM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	9/24/2019 7:24:21 AM
Tetrachloroethene (PCE)	13.3	0.255	D	mg/Kg-dry	10	9/24/2019 7:24:21 AM
Surr: Dibromofluoromethane	97.9	56.5 - 129	D	%Rec	10	9/24/2019 7:24:21 AM
Surr: Toluene-d8	97.1	64.5 - 151	D	%Rec	10	9/24/2019 7:24:21 AM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	9/24/2019 7:24:21 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54090

Analyst: ZR

Percent Moisture	20.1	0.500		wt%	1	9/23/2019 5:30:09 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1909345-005

**Collection Date:** 9/23/2019 2:03:00 PM

**Client Sample ID:** W22 N6-4

**Matrix:** Soil

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

Batch ID: 25907

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	9/24/2019 2:30:35 AM
cis-1,2-Dichloroethene	ND	0.186	D	mg/Kg-dry	10	9/24/2019 2:30:35 AM
Trichloroethene (TCE)	0.103	0.186	DJ	mg/Kg-dry	10	9/24/2019 2:30:35 AM
Tetrachloroethene (PCE)	968	23.3	D	mg/Kg-dry	1000	9/24/2019 9:24:53 AM
Surr: Dibromofluoromethane	90.1	56.5 - 129	D	%Rec	10	9/24/2019 2:30:35 AM
Surr: Toluene-d8	95.0	64.5 - 151	D	%Rec	10	9/24/2019 2:30:35 AM
Surr: 1-Bromo-4-fluorobenzene	99.8	54.8 - 168	D	%Rec	10	9/24/2019 2:30:35 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54090

Analyst: ZR

Percent Moisture	9.15	0.500		wt%	1	9/23/2019 5:30:09 PM
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**Lab ID:** 1909345-006

**Collection Date:** 9/23/2019 2:08:00 PM

**Client Sample ID:** W24 N6-5

**Matrix:** Soil

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

Batch ID: 25907

Analyst: KT

Vinyl chloride	ND	0.315	D	mg/Kg-dry	10	9/23/2019 8:30:09 PM
cis-1,2-Dichloroethene	ND	0.252	D	mg/Kg-dry	10	9/23/2019 8:30:09 PM
Trichloroethene (TCE)	ND	0.252	D	mg/Kg-dry	10	9/23/2019 8:30:09 PM
Tetrachloroethene (PCE)	18.6	0.315	D	mg/Kg-dry	10	9/23/2019 8:30:09 PM
Surr: Dibromofluoromethane	94.8	56.5 - 129	D	%Rec	10	9/23/2019 8:30:09 PM
Surr: Toluene-d8	97.4	64.5 - 151	D	%Rec	10	9/23/2019 8:30:09 PM
Surr: 1-Bromo-4-fluorobenzene	99.7	54.8 - 168	D	%Rec	10	9/23/2019 8:30:09 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R54090

Analyst: ZR

Percent Moisture	17.8	0.500		wt%	1	9/23/2019 5:30:09 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1909345-007

**Collection Date:** 9/23/2019 2:15:00 PM

**Client Sample ID:** W22 N6-5

**Matrix:** Soil

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

Batch ID: 25907

Analyst: KT

Vinyl chloride	ND	0.309	D	mg/Kg-dry	10	9/24/2019 3:00:43 AM
cis-1,2-Dichloroethene	ND	0.247	D	mg/Kg-dry	10	9/24/2019 3:00:43 AM
Trichloroethene (TCE)	ND	0.247	D	mg/Kg-dry	10	9/24/2019 3:00:43 AM
Tetrachloroethene (PCE)	59.7	3.09	D	mg/Kg-dry	100	9/24/2019 7:54:30 AM
Surr: Dibromofluoromethane	96.2	56.5 - 129	D	%Rec	10	9/24/2019 3:00:43 AM
Surr: Toluene-d8	98.2	64.5 - 151	D	%Rec	10	9/24/2019 3:00:43 AM
Surr: 1-Bromo-4-fluorobenzene	99.3	54.8 - 168	D	%Rec	10	9/24/2019 3:00:43 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54090

Analyst: ZR

Percent Moisture	19.7	0.500		wt%	1	9/23/2019 5:30:09 PM
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**Lab ID:** 1909345-008

**Collection Date:** 9/23/2019 2:40:00 PM

**Client Sample ID:** Stockpile-1-092319

**Matrix:** Soil

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

Batch ID: 25907

Analyst: KT

Vinyl chloride	ND	0.225	D	mg/Kg-dry	10	9/24/2019 3:30:51 AM
cis-1,2-Dichloroethene	ND	0.180	D	mg/Kg-dry	10	9/24/2019 3:30:51 AM
Trichloroethene (TCE)	ND	0.180	D	mg/Kg-dry	10	9/24/2019 3:30:51 AM
Tetrachloroethene (PCE)	107	2.25	D	mg/Kg-dry	100	9/24/2019 8:24:37 AM
Surr: Dibromofluoromethane	92.9	56.5 - 129	D	%Rec	10	9/24/2019 3:30:51 AM
Surr: Toluene-d8	96.8	64.5 - 151	D	%Rec	10	9/24/2019 3:30:51 AM
Surr: 1-Bromo-4-fluorobenzene	98.9	54.8 - 168	D	%Rec	10	9/24/2019 3:30:51 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R54090

Analyst: ZR

Percent Moisture	12.3	0.500		wt%	1	9/23/2019 5:30:09 PM
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**Work Order:** 1909345  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25907</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/23/2019</b>	RunNo: <b>54091</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>25907</b>				Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1071294</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.982	0.0250	1.000	0	98.2	43.4	151				
cis-1,2-Dichloroethene	0.986	0.0200	1.000	0	98.6	71.3	135				
Trichloroethene (TCE)	0.987	0.0200	1.000	0	98.7	65.5	137				
Tetrachloroethene (PCE)	1.00	0.0250	1.000	0	100	52.7	150				
Surr: Dibromofluoromethane	1.22		1.250		97.4	56.5	129				
Surr: Toluene-d8	1.25		1.250		100	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.24		1.250		99.2	54.8	168				

Sample ID: <b>MB-25907</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>9/23/2019</b>	RunNo: <b>54091</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>25907</b>				Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1071295</b>					
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		96.0	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.1	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		100	54.8	168				

Sample ID: <b>1909347-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>9/23/2019</b>	RunNo: <b>54091</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>25907</b>				Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1071290</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.531	0.249						0.4723	11.7	30	D
cis-1,2-Dichloroethene	12.3	0.199						11.81	4.03	30	D
Trichloroethene (TCE)	0.269	0.199						0.2397	11.7	30	D
Tetrachloroethene (PCE)	4.85	0.249						4.579	5.70	30	D
Surr: Dibromofluoromethane	11.9		12.45		95.6	56.5	129		0		D
Surr: Toluene-d8	12.3		12.45		98.6	64.5	151		0		D

Work Order: 1909345  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>1909347-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/23/2019</b>	RunNo: <b>54091</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25907</b>		Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1071290</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	12.3		12.45		99.2	54.8	168		0		D
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Sample ID: <b>1909345-006BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/23/2019</b>	RunNo: <b>54091</b>							
Client ID: <b>W24 N6-5</b>	Batch ID: <b>25907</b>		Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1071286</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.315						0	0	30	D
cis-1,2-Dichloroethene	ND	0.252						0	0	30	D
Trichloroethene (TCE)	ND	0.252						0	0	30	D
Tetrachloroethene (PCE)	18.3	0.315						18.57	1.28	30	D
Surr: Dibromofluoromethane	15.1		15.76		95.8	56.5	129		0		D
Surr: Toluene-d8	15.5		15.76		98.4	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	15.7		15.76		99.7	54.8	168		0		D

Sample ID: <b>1909338-001BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/23/2019</b>	RunNo: <b>54091</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25907</b>		Analysis Date: <b>9/24/2019</b>	SeqNo: <b>1071275</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	7.94	0.218	8.709	0.1507	89.4	43.6	150				D
cis-1,2-Dichloroethene	13.5	0.174	8.709	5.556	91.4	58.6	136				D
Trichloroethene (TCE)	8.74	0.174	8.709	0	100	61.6	147				D
Tetrachloroethene (PCE)	9.28	0.218	8.709	0.1463	105	35.6	158				D
Surr: Dibromofluoromethane	10.4		10.89		95.7	56.5	129				D
Surr: Toluene-d8	10.8		10.89		99.3	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	11.0		10.89		101	54.8	168				D

**Work Order:** 1909345  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1909338-001BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/23/2019</b>	RunNo: <b>54091</b>
Client ID: <b>BATCH</b>	Batch ID: <b>25907</b>		Analysis Date: <b>9/24/2019</b>	SeqNo: <b>1071276</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.44	0.218	8.709	0.1507	107	43.6	150	7.938	17.3	30	D
cis-1,2-Dichloroethene	13.9	0.174	8.709	5.556	95.3	58.6	136	13.51	2.49	30	D
Trichloroethene (TCE)	8.42	0.174	8.709	0	96.6	61.6	147	8.736	3.73	30	D
Tetrachloroethene (PCE)	9.06	0.218	8.709	0.1463	102	35.6	158	9.279	2.35	30	D
Surr: Dibromofluoromethane	9.96		10.89		91.5	56.5	129		0		D
Surr: Toluene-d8	10.3		10.89		94.5	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.8		10.89		99.0	54.8	168		0		D

**Work Order:** 1909345  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1909345-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>9/23/2019</b>	RunNo: <b>54090</b>							
Client ID: <b>W23 N5-6</b>	Batch ID: <b>R54090</b>	Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1071239</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	14.5	0.500						14.39	0.539	20	

Sample ID: <b>1909347-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>9/23/2019</b>	RunNo: <b>54090</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R54090</b>	Analysis Date: <b>9/23/2019</b>	SeqNo: <b>1071248</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	14.7	0.500						14.66	0.0444	20	

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

Work Order Number: **1909345**  
 Date Received: **9/23/2019 3:09:00 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°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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	3.4
Sample	9.9

\* 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

**Client:** PES Environmental  
**Address:** 1215 4th Ave #1350  
**City, State, zip:** Seattle WA 98161  
**Telephone:** (206) 529-3980  
**Fax:** (206) 529-3985

**Date:** 9/23/19 **Page:** 1 **of:** 1  
**Project Name:** American Linen  
**Project No:** 1413.001.05.402  
**Collected by:** MRC/KWS  
**Location:** Seattle, WA  
**Report To (PM):** Brian O'Neal  
**PM Email:** BOVEAL@PESENV.COM

**Laboratory Project No (Internal):** 1009745  
**Special Remarks:** SELECT LIST: PCE, TCE, cis-DCE, VC  
**Sample Disposal:**  Return to client  Disposal by lab (after 30 days)

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											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 W23N5-6	9/23/19	1052	S	X																
2 W24N6-6		1057	X																	
3 W22N6-6		1103	X																	
4 W23N6-6		1108	X																	
5 W22N6-4		1403	X																	
6 W24N6-5		1408	X																	
7 W22N6-5		1415	X																	
8 STOWPILE-1-092319		1440	X																	
9																				
10																				

ASAP  
9/23 AM

**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

**Turn-around Time:**  
 Standard  
 3 Day  
 2 Day  
 Next Day  
 Same Day (Specify) **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.**

**Relinquished:** *[Signature]* Date/Time: 9/23/19 15:09  
**Received:** *[Signature]* Date/Time: 9/23/19 14:45

**Relinquished:** *[Signature]* Date/Time: 9/23/19 15:09  
**Received:** *[Signature]* Date/Time: 9/23/19 15:09

**From:** [Maeng, Byung \(ECY\)](#)  
**To:** [Brian O'Neal](#)  
**Cc:** [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Daniel Balbiani](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 8-5 feet Contained-In Addendum (8/21/2019)  
**Date:** Wednesday, August 21, 2019 11:13:25 AM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 191 tons of soil from SMA-2 under the contained-in determination.

Since the soil is excavated from the groundwater saturated 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, August 21, 2019 10:58 AM  
**To:** Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>  
**Subject:** Former American Linen Supply Company - SMA-2 from 8-5 feet Contained-In Addendum (8/21/2019)

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 **191 tons** of soil from SMA-2 from elevation 8 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	7	02-07-202-05.5	08/16/19	0.278	<0.213 U	<0.213 U	<0.266 U
	9	02-09-202-07	08/16/19	0.230	<0.185 U	<0.185 U	<0.232 U
	9	02-09-203-07	08/16/19	1.51	<0.192 U	<0.192 U	<0.241 U
	7	02-07-203-06	08/16/19	0.224	<0.221 U	<0.221 U	<0.276 U
	9	02-09-205-07.5	08/16/19	0.332	<0.219 U	<0.219 U	<0.274 U
	9	02-09-207-07	08/20/19	0.756	<0.182 U	<0.182 U	<0.228 U
	7	02-07-207-05.5	08/20/19	2.80	<0.204 U	<0.204 U	<0.255 U
	9	02-09-208-07.5	08/20/19	<0.255 U	<0.204 U	<0.204 U	<0.255 U
	7	02-07-208-06	08/20/19	<0.237 U	<0.189 U	<0.189 U	<0.237 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.

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 southeast portion of SMA-2 from elevation 8 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 5B). The results of the initial confirmation samples for this lift were all below contained in criteria except sample 02-09-204-07.5 in the southeast corner of the

treatment area which contained PCE at a concentration of 22.2 mg/kg. Based on this single exceedance, the eastern half of the treatment zone was retreated in situ and additional confirmation samples were collected (blue dashed line and samples on Lift Map 9). Two samples were collected near the location of sample 02-09-204-07.5 to confirm that this area was successfully treated; both these samples (02-09-208-07.5 and 02-07-208-06) did not contain PCE after re-treatment. Pre-treatment concentrations are shown on CMMP Figure 5B 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.

Karsten Springstead, L.G.

Project Geologist

PES Environmental, Inc.

*ph: (206) 529-3980 ext. 109*

*cell: (206) 914-0308*

*fax: (206) 529-3985*

**From:** [Brian O'Neal](#)  
**To:** [Byung Maeng \(FCY\) \(BMAE461@FCY.WA.GOV\)](#)  
**Subject:** Former American Linen Supply Company - SMA-2 from 8-5 feet Contained-In Addendum (8/21/2019)  
**Date:** Wednesday, August 21, 2019 10:57:00 AM  
**Attachments:** [CMMP Figure 4.pdf](#)  
[image001.png](#)  
[Rpt\\_1908243\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[Rpt\\_1908277\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[Figure 5B SMA2 Updated Treatment Boundary 8-5 FT.pdf](#)  
[Dexter Yard In-Situ Lift 9 8-5 SMA2 Re-Treatment.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 **191 tons** of soil from SMA-2 from elevation 8 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	7	02-07-202-05.5	08/16/19	0.278	<0.213 U	<0.213 U	<0.266 U
	9	02-09-202-07	08/16/19	0.230	<0.185 U	<0.185 U	<0.232 U
	9	02-09-203-07	08/16/19	1.51	<0.192 U	<0.192 U	<0.241 U
	7	02-07-203-06	08/16/19	0.224	<0.221 U	<0.221 U	<0.276 U
	9	02-09-205-07.5	08/16/19	0.332	<0.219 U	<0.219 U	<0.274 U
	9	02-09-207-07	08/20/19	0.756	<0.182 U	<0.182 U	<0.228 U
	7	02-07-207-05.5	08/20/19	2.80	<0.204 U	<0.204 U	<0.255 U
	9	02-09-208-07.5	08/20/19	<0.255 U	<0.204 U	<0.204 U	<0.255 U
	7	02-07-208-06	08/20/19	<0.237 U	<0.189 U	<0.189 U	<0.237 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.

4. Sample naming convention:

AA-BB-CC-DD  
 └───┬───┬───┬───  
 Area Lift Sample ID Elevation

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 southeast portion of SMA-2 from elevation 8 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 5B). The results of the initial confirmation samples for this lift were all below contained in criteria except sample 02-09-204-07.5 in the southeast corner of the treatment area which contained PCE at a concentration of 22.2 mg/kg. Based on this single exceedance, the eastern half of the treatment zone was retreated *in situ* and additional confirmation samples were collected (blue dashed line and samples on Lift Map 9). Two samples were collected near the location of sample 02-09-204-07.5 to confirm that this area was successfully treated; both these samples (02-09-208-07.5 and 02-07-208-06) did not contain PCE after re-treatment. Pre-treatment concentrations are shown on CMMP Figure 5B 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.

Karsten Springstead, L.G.

Project Geologist

PES Environmental , Inc.

*ph: (206) 529-3980 ext. 109*

*cell: (206) 914-0308*

*fax: (206) 529-3985*

**From:** [Brian O'Neal](mailto:Brian.O'Neal)  
**To:** [Byung Maeng \(FCY\) \(BMAE461@FCY.WA.GOV\)](mailto:Byung.Maeng@FCY.WA.GOV)  
**Cc:** [Cardona-Marek, Tamara \(FCY\)](#); [Timm, Ronald W. \(FCY\)](#); [Drew Graham](#); [Brad Rock](#); [Smith, Jeff A. - \(SEA\)](#); [Walcott, James P. - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M. - \(SEA\)](#); [Ron D. Coringrato](#); [Paul G. Dimakos](#); [Daniel Balbiani](#); [Karsten Springstead](#); [Kim Vik](#); [Kovas Zygas](#)  
**Subject:** Former American Linen Supply Company - SMA-2 from 8-5 feet Contained-In Addendum (8/21/2019)  
**Date:** Wednesday, August 21, 2019 8:11:00 AM  
**Attachments:** [CMMP Figure 4.pdf](#)  
[image001.png](#)  
[Rpt\\_1908243\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[Rpt\\_1908277\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[Dexter\\_Yard\\_In-Situ\\_Lift\\_9\\_8-5\\_SMA2\\_Re-Treatment.pdf](#)  
[Figure 5B SMA2 Updated Treatment Boundary 8-5 FT.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 **191 tons** of soil from SMA-2 from elevation 8 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	7	02-07-202-05.5	08/16/19	0.278	<0.213 U	<0.213 U	<0.266 U
	9	02-09-202-07	08/16/19	0.230	<0.185 U	<0.185 U	<0.232 U
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	7	02-07-203-06	08/16/19	0.224	<0.221 U	<0.221 U	<0.276 U
	7	02-09-205-07.5	08/16/19	0.332	<0.219 U	<0.219 U	<0.274 U
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	7	02-07-208-06	08/20/19	<0.237 U	<0.189 U	<0.189 U	<0.237 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 additional soil from the southeast portion of SMA-2 from elevation 8 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 5B). Based on results of the initial confirmation samples, the eastern half of the treatment zone was retreated *in situ* and additional confirmation samples were collected (blue dashed line and samples on Lift Map 9). Pre-treatment concentrations are shown on CMMP Figure 5B 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.

Karsten Springstead, L.G.

Project Geologist

PES Environmental , Inc.

*ph: (206) 529-3980 ext. 109*

*cell: (206) 914-0308*

*fax: (206) 529-3985*

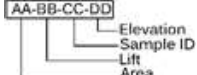
**From:** [Maeng, Byung \(ECY\)](#)  
**To:** [Brian O'Neal](#)  
**Cc:** [Cardona-Marek, Tamara \(ECY\)](#); [Timm, Ronald W. \(ECY\)](#); [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Daniel Balbiani](#); [Kim Vik](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#); [Ron D. Coringrato](#); [Paul G. Dimakos](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 11-8 feet Contained-In Addendum (8/14/2019)  
**Date:** Thursday, August 15, 2019 10:00:06 AM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 183 tons of soil from SMA-2 under the contained-in determination.

If 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, August 14, 2019 1:55 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>; 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>; Troy, Ryan - (SEA <RTroy@tcco.com>; McDowell, Bryce M - (SEA <bmcowell@tcco.com>; Daniel Balbiani <dbalbiani@pesenv.com>; Kim Vik <Kvik@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>; Rachel T. McLaughlin <RMcLaughlin@pesenv.com>; Ron D. Coringrato <RCoringrato@ecc.net>; Paul G. Dimakos <PDimakos@ecc.net>

**Subject:** RE: Former American Linen Supply Company - SMA-2 from 11-8 feet Contained-In Addendum (8/14/2019)  
 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 **183 tons** of soil from SMA-2 from elevation 11 to 8 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	11	02-11-205-10.5	08/13/19	0.584	<0.193 U	<0.193 U	<0.241 U
	9	02-09-206-09	08/13/19	<0.268 U	<0.214 U	<0.214 U	<0.268 U
	11	02-11-203-09.5	08/13/19	0.165	<0.186 U	<0.186 U	<0.233 U
	9	02-09-207-09	08/13/19	0.111	<0.194 U	<0.194 U	<0.242 U
	11	02-11-204-09.5	08/13/19	0.116	<0.203 U	<0.203 U	<0.253 U
	11	02-11-202-10.5	08/13/19	0.261	<0.228 U	<0.228 U	<0.284 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. <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">AA-BB-CC-DD</div>  </div> 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 5b and the post-treatment samples locations are shown on the "lift map" (Lift 11) 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 \(FCY\) \(BMAE461@FCY.WA.GOV\)](#)  
**Cc:** [Cardona-Marek, Tamara \(FCY\)](#); [Timm, Ronald W. \(FCY\)](#); [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Trov, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Daniel Balbiani](#); [Kim Vik](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#); [Ron D. Coringrato](#); [Paul G. Dimakos](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 11-8 feet Contained-In Addendum (8/14/2019)  
**Date:** Wednesday, August 14, 2019 1:54:00 PM  
**Attachments:** [CMMP Figure 4.pdf](#)  
[image001.png](#)  
[SMA2 11-8 FT Lift Map.pdf](#)  
[CMMP Figure 5B.pdf](#)  
[Rpt\\_1908174\\_American\\_Linen\\_Final\\_v1.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 **183 tons** of soil from SMA-2 from elevation 11 to 8 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:

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2	11	02-11-205-10.5	08/13/19	0.584	<0.193 U	<0.193 U	<0.241 U
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	11	02-11-203-09.5	08/13/19	0.165	<0.186 U	<0.186 U	<0.233 U
	9	02-09-207-09	08/13/19	0.111	<0.194 U	<0.194 U	<0.242 U
	11	02-11-204-09.5	08/13/19	0.116	<0.203 U	<0.203 U	<0.253 U
	11	02-11-202-10.5	08/13/19	0.261	<0.228 U	<0.228 U	<0.284 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. <div style="display: flex; align-items: center; margin-left: 40px;"> <div style="border: 1px solid black; padding: 2px; margin-right: 5px;">AA-BB-CC-DD</div> <div style="margin-left: 5px;">             Elevation              Sample ID              Lift              Area           </div> </div> 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:** [Maeng, Byung \(ECY\)](#)  
**To:** [Brian O'Neal](#)  
**Cc:** [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Ron D. Coringrato](#); [Paul G. Dimakos](#); [Daniel Balbiani](#); [Karsten Springstead](#); [Kim Vik](#); [Rachel T. McLaughlin](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 13-11 feet Contained-In Addendum (8/7/2019)  
**Date:** Wednesday, August 7, 2019 11:47:54 AM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 122 tons of soil from SMA-2 under the contained-in determination.

If 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.

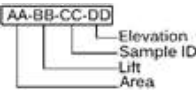
**From:** Brian O'Neal <boneal@pesenv.com>  
**Sent:** Wednesday, August 7, 2019 10:02 AM  
**To:** Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>  
**Cc:** Drew Graham <dgraham@oacsvcs.com>; Brad Rock <brock@oacsvcs.com>; John Moshy <john.moshy@biomedrealty.com>; Smith, Jeff A - (SEA <JXSmith@tcco.com>; Walcott, James P - (SEA <jpwalcott@tcco.com>; Troy, Ryan - (SEA <RTroy@tcco.com>; McDowell, Bryce M - (SEA <bmcowell@tcco.com>; Ron D. Coringrato <RCoringrato@ecc.net>; Paul G. Dimakos <PDimakos@ecc.net>; Daniel Balbiani <dbalbiani@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>; Kim Vik <KVik@pesenv.com>; Rachel T. McLaughlin <RMcLaughlin@pesenv.com>  
**Subject:** Former American Linen Supply Company - SMA-2 from 13-11 feet Contained-In Addendum (8/7/2019)  
 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 **122 tons** of soil from SMA-2 (13 to 11) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	13	02-13-204-11.5	08/06/19	0.140	<0.196 U	<0.196 U	<0.245 U
	13	02-13-202-12.5	08/06/19	0.242	<0.205 U	<0.205 U	<0.256 U
	13	02-13-203-11.5	08/06/19	0.247	<0.190 U	<0.190 U	<0.238 U
	13	02-13-205-12.5	08/06/19	0.390	<0.243 U	<0.243 U	<0.303 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.

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 5B 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.

Karsten Springstead, L.G.

Project Geologist

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**Cc:** [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Ron D. Coringrato](#); [Paul G. Dimakos](#); [Daniel Balbiani](#); [Karsten Springstead](#); [Kim Vik](#); [Rachel T. McLaughlin](#)  
**Subject:** Former American Linen Supply Company - SMA-2 from 13-11 feet Contained-In Addendum (8/7/2019)  
**Date:** Wednesday, August 7, 2019 10:01:00 AM  
**Attachments:** [CMMP Figure 4.pdf](#)  
[CMMP Figure 5B.pdf](#)  
[Dexter Yard In-Situ Lift 13\\_R14.pdf](#)  
[image001.png](#)  
[Rpt\\_1908059\\_American\\_Linen\\_Final\\_v1.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 **122 tons** of soil from SMA-2 (13 to 11) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	13	02-13-204-11.5	08/06/19	0.140	<0.196 U	<0.196 U	<0.245 U
	13	02-13-202-12.5	08/06/19	0.242	<0.205 U	<0.205 U	<0.256 U
	13	02-13-203-11.5	08/06/19	0.247	<0.190 U	<0.190 U	<0.238 U
	13	02-13-205-12.5	08/06/19	0.390	<0.243 U	<0.243 U	<0.303 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 5B 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.

Karsten Springstead, L.G.  
 Project Geologist  
 PES Environmental, Inc.  
*ph:* (206) 529-3980 ext. 109  
*cell:* (206) 914-0308  
*fax:* (206) 529-3985

**From:** [Maeng, Byung \(ECY\)](#)  
**To:** [Brian O'Neal](#)  
**Cc:** [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Daniel Balbiani](#); [Kim Vik](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#); [Ron D. Coringrato](#); [Paul G. Dimakos](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 15-13 feet Contained-In Addendum (8/2/2019)  
**Date:** Monday, August 5, 2019 8:16:38 AM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 122 tons of soil from SMA-2 under the contained-in determination.

If 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:** Friday, August 2, 2019 9:56 AM  
**To:** Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>  
**Cc:** 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>; Troy, Ryan - (SEA <RTroy@tcco.com>; McDowell, Bryce M - (SEA <bmcowell@tcco.com>; Daniel Balbiani <dbalbiani@pesenv.com>; Kim Vik <Kvik@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>; Rachel T. McLaughlin <RMcLaughlin@pesenv.com>; Ron D. Coringrato <RCoringrato@ecc.net>; Paul G. Dimakos <PDimakos@ecc.net>  
**Subject:** Former American Linen Supply Company - SMA-2 from 15-13 feet Contained-In Addendum (8/2/2019)  
 Byung,

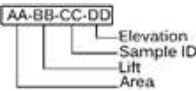
Pursuant to the requirements of Section 3.5.3 of the Final Contaminated Media Management Plan (CMMP) and consistent with the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for soil samples collected to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **122 tons** of soil from SMA-2 (15 to 13) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	15	02-15-204-14.5	08/01/19	0.748	<0.249 U	<0.249 U	<0.311 U
	15	02-15-202-13.5	08/01/19	0.196	<0.184 U	<0.184 U	<0.230 U
	15	02-15-203-13.5	08/01/19	<0.258 U	<0.207 U	<0.207 U	<0.258 U
	15	02-15-205-14.5	08/01/19	0.226	<0.214 U	<0.214 U	<0.268 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:



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 5b 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.

Karsten Springstead, L.G.

Project Geologist

PES Environmental, Inc.

*ph: (206) 529-3980 ext. 109*

*cell: (206) 914-0308*

*fax: (206) 529-3985*

**From:** [Brian O'Neal](mailto:Brian.O'Neal)  
**To:** [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](mailto:Byung.Maeng@ECY.WA.GOV)  
**Cc:** [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Daniel Balbiani](#); [Kim Vik](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#); [Ron D. Coringrato](#); [Paul G. Dimakos](#)  
**Subject:** Former American Linen Supply Company - SMA-2 from 15-13 feet Contained-In Addendum (8/2/2019)  
**Date:** Friday, August 2, 2019 9:55:00 AM  
**Attachments:** [CMMP Figure 4.pdf](#)  
[image001.png](#)  
[Rpt\\_1908002\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[CMMP Figure 5B.pdf](#)  
[Dexter Yard In-Situ Lift 15 R14.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 **122 tons** of soil from SMA-2 (15 to 13) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	15	02-15-204-14.5	08/01/19	0.748	<0.249 U	<0.249 U	<0.311 U
	15	02-15-202-13.5	08/01/19	0.196	<0.184 U	<0.184 U	<0.230 U
	15	02-15-203-13.5	08/01/19	<0.258 U	<0.207 U	<0.207 U	<0.258 U
	15	02-15-205-14.5	08/01/19	0.226	<0.214 U	<0.214 U	<0.268 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

- 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 5b 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.

Karsten Springstead, L.G.

Project Geologist

PES Environmental, Inc.

ph: (206) 529-3980 ext. 109

cell: (206) 914-0308

fax: (206) 529-3985

**From:** [Maeng, Byung \(ECY\)](#)  
**To:** [Brian O'Neal](#)  
**Cc:** [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA\)](#); [Walcott, James P - \(SEA\)](#); [Troy, Ryan - \(SEA\)](#); [McDowell, Bryce M - \(SEA\)](#); [Daniel Balbiani](#); [Kim Vik](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#); [Ron D. Coringrato](#); [Paul G. Dimakos](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 17-15 feet Contained-In Addendum (7/25/2019)  
**Date:** Friday, July 26, 2019 8:20:56 AM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 200 tons of soil from SMA-2 under the contained-in determination.

If 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.

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

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

**Sent:** Thursday, July 25, 2019 1:44 PM

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

**Cc:** 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>; Troy, Ryan - (SEA <RTroy@tcco.com>; McDowell, Bryce M - (SEA <bmcowell@tcco.com>; Daniel Balbiani <dbalbiani@pesenv.com>; Kim Vik <KVik@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>; Rachel T. McLaughlin <RMcLaughlin@pesenv.com>; Ron D. Coringrato <RCoringrato@ecc.net>; Paul G. Dimakos <PDimakos@ecc.net>

**Subject:** Former American Linen Supply Company - SMA-2 from 17-15 feet Contained-In Addendum (7/25/2019)  
 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 **200 tons** of soil from SMA-2 (17 to 15) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	17	02-17-200-16.5	07/19/19	0.360	<0.212 U	<0.212 U	<0.264 U
	17	02-17-201-15.5	07/19/19	0.268	<0.248 U	<0.248 U	<0.311 U
	17	02-17-202-16.5	07/19/19	0.362	<0.221 U	<0.221 U	<0.276 U
	17	02-17-203-15.5	07/19/19	0.374	<0.256 U	<0.256 U	<0.321 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.

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. Pre-treatment concentrations are shown on CMMP Figure 5a 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:** [Brian O'Neal](mailto:Brian.O'Neal@PES-Environmental.com)  
**To:** [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](mailto:Byung.Maeng@ECY.WA.GOV)  
**Cc:** [Drew Graham](#); [Brad Rock](#); [John Moshy](#); [Smith, Jeff A - \(SEA; Walcott, James P - \(SEA; Troy, Ryan - \(SEA; McDowell, Bryce M - \(SEA; Daniel Balbiani; Kim Vik; Karsten Springstead; Rachel T. McLaughlin; Ron D. Coringrato; Paul G. Dimakos](#)  
**Subject:** Former American Linen Supply Company - SMA-2 from 17-15 feet Contained-In Addendum (7/25/2019)  
**Date:** Thursday, July 25, 2019 1:44:00 PM  
**Attachments:** [CMMP Figure 4.pdf](#)  
[image001.png](#)  
[Rpt\\_1907267\\_American\\_Linen\\_Final\\_v2.pdf](#)  
[Figure 5a from CMMP \(SMA-2\) Updated Treatment 17-15.pdf](#)  
[Dexter Yard In-Situ Lift 17-15.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 **200 tons** of soil from SMA-2 (17 to 15) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	17	02-17-200-16.5	07/19/19	0.360	<0.212 U	<0.212 U	<0.264 U
	17	02-17-201-15.5	07/19/19	0.268	<0.248 U	<0.248 U	<0.311 U
	17	02-17-202-16.5	07/19/19	0.362	<0.221 U	<0.221 U	<0.276 U
	17	02-17-203-15.5	07/19/19	0.374	<0.256 U	<0.256 U	<0.321 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

- 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 5a 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:** [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](#); [Paul G. Dimakos](#); [Brian O'Neal](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 19-17 feet Contained-In Addendum (7/16/2019)  
**Date:** Wednesday, July 17, 2019 8:14:35 AM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 213 tons of soil from SMA-2 under the contained-in determination.

If 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.

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

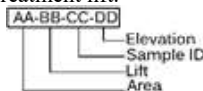
**From:** Daniel Balbiani [mailto:dbalbiani@pesenv.com]  
**Sent:** Tuesday, July 16, 2019 2:36 PM  
**To:** Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>  
**Cc:** Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Timm, Ronald W. (ECY) <rtim461@ECY.WA.GOV>; Drew Graham <dgraham@oacsvcs.com>; John Moshy <john.moshy@biomedrealty.com>; 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>; Paul G. Dimakos <PDimakos@ecc.net>; Brian O'Neal <boneal@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>; Rachel T. McLaughlin <RMcLaughlin@pesenv.com>

**Subject:** Former American Linen Supply Company - SMA-2 from 19-17 feet Contained-In Addendum (7/16/2019)  
 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 **213 tons** of soil from SMA-2 (19 to 17) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	19	02-19-200-17.5	07/15/19	<0.231 U	<0.185 U	<0.185 U	<0.231 U
	19	02-19-201-18.5	07/15/19	<0.215 U	<0.172 U	<0.172 U	<0.215 U
	19	02-19-202-17.5	07/15/19	<0.214 U	<0.171 U	<0.171 U	<0.214 U
	19	02-19-203-18.5	07/15/19	<0.318 U	<0.254 U	<0.254 U	<0.318 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:

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-2 from elevation 19 to 17 feet that was identified based on field-screening and confirmed by test pit samples (defined by the green dashed lines on the annotated Figure 5a). Pre-treatment concentrations are shown on CMMP Figure 5a 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.

Daniel Balbiani, P.E.

Principal Engineer



1215 Fourth Ave., Suite 1350

Seattle, WA 98161

(206) 529-3980, Ext. #106

(206) 529-3985 fax

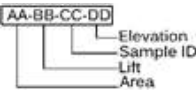
(425) 466-0770 cell

[dbalbiani@pesenv.com](mailto: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](#); [Paul G. Dimakos](#); [Brian O'Neal](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** Former American Linen Supply Company - SMA-2 from 19-17 feet Contained-In Addendum (7/16/2019)  
**Date:** Tuesday, July 16, 2019 2:36:06 PM  
**Attachments:** [CMMP Figure 4.pdf](#)  
[Figure 5a from CMMP \(SMA-2\) Updated Treatment 19-17.pdf](#)  
[Rpt\\_1907193\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[image001.png](#)  
[SMA2\\_Updated\\_Northern\\_Treatment\\_Boundary\\_19-17.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 **213 tons** of soil from SMA-2 (19 to 17) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	19	02-19-200-17.5	07/15/19	<0.231 U	<0.185 U	<0.185 U	<0.231 U
	19	02-19-201-18.5	07/15/19	<0.215 U	<0.172 U	<0.172 U	<0.215 U
	19	02-19-202-17.5	07/15/19	<0.214 U	<0.171 U	<0.171 U	<0.214 U
	19	02-19-203-18.5	07/15/19	<0.318 U	<0.254 U	<0.254 U	<0.318 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: 							

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-2 from elevation 19 to 17 feet that was identified based on field-screening and confirmed by test pit samples (defined by the green dashed lines on the annotated Figure 5a). Pre-treatment concentrations are shown on CMMP Figure 5a 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.

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](mailto: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](#); [Paul G. Dimakos](#); [Brian O'Neal](#); [Bill Haldeman](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 Intermediate A Groundwater Zone Contained-In Addendum (7/12/2019)  
**Date:** Tuesday, July 16, 2019 11:01:53 AM  
**Attachments:** [image001.png](#)  
[SMA-2 Test Pit Locations for 20 and 18 ft samples.pdf](#)

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Based on the information provided below and Ecology's understanding that the soil sampling locations for Lifts 19 and 21 are the same as the sampling locations for Lift 23 as shown on the attached figure, Ecology approves the disposal of approximately 2,990 tons of soil from SMA-2 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.

Per the Ecology March 18, 2019 contained-in determination letter, you are required to update Ecology of the soil excavation and disposal status at least once every 3 months. Please submit the quarterly status report by the end of July. This status report must include at least soil excavation date, soil volume, excavation area, excavation depth, and disposal date. Copies of land fill receipts or a certificate of disposal issued by the receiving landfill must be included in the report. If there are more than 10 landfill receipts, please tabulate the receipts soil volumes.

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

---

**From:** Daniel Balbiani [mailto:[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)]  
**Sent:** Monday, July 15, 2019 8:25 AM  
**To:** Maeng, Byung (ECY) <[BMAE461@ECY.WA.GOV](mailto:BMAE461@ECY.WA.GOV)>  
**Cc:** Cardona-Marek, Tamara (ECY) <[TACA461@ECY.WA.GOV](mailto:TACA461@ECY.WA.GOV)>; Timm, Ronald W. (ECY) <[rtim461@ECY.WA.GOV](mailto:rtim461@ECY.WA.GOV)>; Drew Graham <[dgraham@oacsvcs.com](mailto:dgraham@oacsvcs.com)>; John Moshy <[john.moshy@biomedrealty.com](mailto:john.moshy@biomedrealty.com)>; Smith, Jeff A - (SEA) <[JXSmith@tcco.com](mailto:JXSmith@tcco.com)>; Walcott, James P - (SEA) <[jpwalcott@tcco.com](mailto:jpwalcott@tcco.com)>; Troy, Ryan - (SEA) <[RTroy@tcco.com](mailto:RTroy@tcco.com)>; McDowell, Bryce M - (SEA) <[bmcdowell@tcco.com](mailto:bmcdowell@tcco.com)>; Brad Rock <[brock@oacsvcs.com](mailto:brock@oacsvcs.com)>; Kim Vik <[KVik@pesenv.com](mailto:KVik@pesenv.com)>; Ron D. Coringrato <[RCoringrato@ecc.net](mailto:RCoringrato@ecc.net)>; Paul G. Dimakos <[PDimakos@ecc.net](mailto:PDimakos@ecc.net)>; Brian O'Neal <[boneal@pesenv.com](mailto:boneal@pesenv.com)>; Bill Haldeman <[bhaldeman@pesenv.com](mailto:bhaldeman@pesenv.com)>; Karsten Springstead <[KSpringstead@pesenv.com](mailto:KSpringstead@pesenv.com)>; Rachel T. McLaughlin <[RMcLaughlin@pesenv.com](mailto:RMcLaughlin@pesenv.com)>  
**Subject:** RE: Former American Linen Supply Company - SMA-2 Intermediate A Groundwater Zone Contained-In Addendum (7/12/2019)

Byung,

I've attached an updated map that highlights the test pit locations where the soil samples listed below were collected from (see blue clouded locations). Also, attached is a figure from the Interim Action Work Plan that shows the groundwater sampling results for the Intermediate A groundwater zone that I have annotated to show the outline of the three Soil Management Areas. This map (without the SMAs shown) was included in Brian O'Neal's March 13, 2019 email that is referenced in your March 18, 2019 contained-in determination and was the basis of your request to have 3 samples collected from the Intermediate A zone from each of the Soil Management Areas.

Please let me know if you need anything further regarding this request.

Thanks.

Dan  
Daniel Balbiani, P.E.  
Principal Engineer

PES Environmental, Inc.  
(206) 529-3980 office  
(425) 466-0770 cell

---

**From:** Maeng, Byung (ECY) <[BMAE461@ECY.WA.GOV](mailto:BMAE461@ECY.WA.GOV)>

**Sent:** Saturday, July 13, 2019 10:33 AM

**To:** Daniel Balbiani <[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)>

**Cc:** Cardona-Marek, Tamara (ECY) <[TACA461@FCY.WA.GOV](mailto:TACA461@FCY.WA.GOV)>; Timm, Ronald W. (ECY) <[rtim461@FCY.WA.GOV](mailto:rtim461@FCY.WA.GOV)>; Drew Graham <[dgraham@oacsvcs.com](mailto:dgraham@oacsvcs.com)>; John Moshy <[john.moshy@biomedrealty.com](mailto:john.moshy@biomedrealty.com)>; Smith, Jeff A - (SEA <[JXSmith@tcco.com](mailto:JXSmith@tcco.com)>; Walcott, James P - (SEA <[jpwalcott@tcco.com](mailto:jpwalcott@tcco.com)>; Troy, Ryan - (SEA <[RTroy@tcco.com](mailto:RTroy@tcco.com)>; McDowell, Bryce M - (SEA <[bmcowell@tcco.com](mailto:bmcowell@tcco.com)>; Brad Rock <[brock@oacsvcs.com](mailto:brock@oacsvcs.com)>; Kim Vik <[KVik@pesenv.com](mailto:KVik@pesenv.com)>; Ron D. Coringrato <[RCoringrato@ecc.net](mailto:RCoringrato@ecc.net)>; Paul G. Dimakos <[PDimakos@ecc.net](mailto:PDimakos@ecc.net)>; Brian O'Neal <[boneal@pesenv.com](mailto:boneal@pesenv.com)>; Bill Haldeman <[bhaldeman@pesenv.com](mailto:bhaldeman@pesenv.com)>; Karsten Springstead <[KSpringstead@pesenv.com](mailto:KSpringstead@pesenv.com)>; Rachel T. McLaughlin <[RMcloughlin@pesenv.com](mailto:RMcloughlin@pesenv.com)>

**Subject:** Re: Former American Linen Supply Company - SMA-2 Intermediate A Groundwater Zone Contained-In Addendum (7/12/2019)

Dan,

I don't see the sampling locations on the map you provided.

Please submit the groundwater sampling data in this specific area.

---

**From:** Daniel Balbiani <[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)>

**Sent:** Friday, July 12, 2019 3:36 PM

**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; Paul G. Dimakos; Brian O'Neal; Bill Haldeman; Karsten Springstead; Rachel T. McLaughlin

**Subject:** Former American Linen Supply Company - SMA-2 Intermediate A Groundwater Zone Contained-In Addendum (7/12/2019)

Byung,

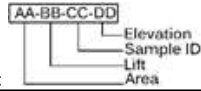
Pursuant to the requirements of your March 18, 2019 "Contained-In Determination for Contaminated Soils from the Former American Linen Supply Company in Seattle, Washington" letter, please find attached the laboratory data for Intermediate A groundwater zone confirmation soil samples (i.e., soil from below elevation 20 feet NAVD88) collected outside the treatment area but inside the boundaries of SMA-2. The samples were collected from test pits used to confirm the boundaries of the soil treatment area for the 21 to 19 ft and 19 ft to 17 ft treatment lifts as shown on the attached lift map. These samples were collected at elevations of 20 and 18 ft to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **2,990 tons** of Intermediate A groundwater zone soil from SMA-2 located outside the treatment area but inside the boundaries of SMA-2 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
2	21	02-21-100-20	06/25/19	0.179	<0.184 U	<0.184 U	<0.230 U
	19	02-19-100-18	06/25/19	0.177	<0.185 U	<0.185 U	<0.232 U
	21	02-21-102-20	06/25/19	3.59	<0.185 U	0.151	<0.232 U
	19	02-19-102-18	06/25/19	3.28	<0.181 U	<0.370 U	<0.227 U
	21	02-21-103-20	06/25/19	<0.234 U	<0.187 U	<0.187 U	<0.234 U
	19	02-19-103-18	06/25/19	<0.248 U	<0.198 U	0.364	<0.248 U
	21	02-21-104-20	06/25/19	0.728	<0.185 U	0.233	<0.231 U
	19	02-19-104-18	06/25/19	0.370	<0.183 U	0.103	<0.228 U
	21	02-21-105-20	06/25/19	0.548	<0.186 U	0.162	<0.232 U
	19	02-19-105-18	06/25/19	<0.226 U	<0.181 U	0.141	<0.226 U
	21	02-21-106-20	06/25/19	1.62	<0.174 U	0.0943	<0.218 U

	19	02-19-106-18	06/25/19	0.470	<0.167 U	0.106	<0.209 U
	21	02-21-112-20	06/27/19	0.679	<0.209 U	0.246	<0.261 U
	19	02-19-112-18	06/27/19	2.47	0.103	0.379	<0.230 U
	21	02-21-113-20	06/27/19	4.34	0.182	0.523	<0.256 U
	19	02-19-113-18	06/27/19	1.73	<0.172 U	0.137	<0.216 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:

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 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.

**Daniel Balbiani, P.E.**

Principal Engineer



**PES Environmental, Inc.**  
Engineering & Environmental Services

1215 Fourth Ave., Suite 1350

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(206) 529-3980, Ext. #106

(206) 529-3985 fax

(425) 466-0770 cell

[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)

**From:** [Daniel Balbiani](#)  
**To:** [Maeng, Byung \(FCY\)](#)  
**Cc:** [Cardona-Marek, Tamara \(FCY\)](#); [Timm, Ronald W. \(FCY\)](#); [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](#); [Paul G. Dimakos](#); [Brian O'Neal](#); [Bill Haldeman](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** Former American Linen Supply Company - SMA-2 Intermediate A Groundwater Zone Contained-In Addendum (7/12/2019)  
**Date:** Friday, July 12, 2019 3:36:34 PM  
**Attachments:** [image001.png](#)  
[Rpt\\_1906316\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[Rpt\\_1906348\\_American\\_Linen\\_Final\\_v2.pdf](#)  
[SMA2 Updated Northern Treatment Boundary 21-19.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-2. The samples were collected from test pits used to confirm the boundaries of the soil treatment area for the 21 to 19 ft and 19 ft to 17 ft treatment lifts as shown on the attached lift map. These samples were collected at elevations of 20 and 18 ft to confirm that chlorinated volatile organic compound (CVOC) concentrations in approximately **2,990 tons** of Intermediate A groundwater zone soil from SMA-2 located outside the treatment area but inside the boundaries of SMA-2 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	21	02-21-100-20	06/25/19	0.179	<0.184 U	<0.184 U	<0.230 U
	19	02-19-100-18	06/25/19	0.177	<0.185 U	<0.185 U	<0.232 U
	21	02-21-102-20	06/25/19	3.59	<0.185 U	0.151	<0.232 U
	19	02-19-102-18	06/25/19	3.28	<0.181 U	<0.370 U	<0.227 U
	21	02-21-103-20	06/25/19	<0.234 U	<0.187 U	<0.187 U	<0.234 U
	19	02-19-103-18	06/25/19	<0.248 U	<0.198 U	0.364	<0.248 U
	21	02-21-104-20	06/25/19	0.728	<0.185 U	0.233	<0.231 U
	19	02-19-104-18	06/25/19	0.370	<0.183 U	0.103	<0.228 U
	21	02-21-105-20	06/25/19	0.548	<0.186 U	0.162	<0.232 U
	19	02-19-105-18	06/25/19	<0.226 U	<0.181 U	0.141	<0.226 U
	21	02-21-106-20	06/25/19	1.62	<0.174 U	0.0943	<0.218 U
	19	02-19-106-18	06/25/19	0.470	<0.167 U	0.106	<0.209 U
	21	02-21-112-20	06/27/19	0.679	<0.209 U	0.246	<0.261 U
	19	02-19-112-18	06/27/19	2.47	0.103	0.379	<0.230 U
	21	02-21-113-20	06/27/19	4.34	0.182	0.523	<0.256 U
	19	02-19-113-18	06/27/19	1.73	<0.172 U	0.137	<0.216 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.

4. Sample naming convention:

AA-BB-CC-DD  
 └─ Elevation  
 └─ Sample ID  
 └─ Lift  
 └─ Area

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 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.

**Daniel Balbani, P.E.**

Principal Engineer



**PES Environmental, Inc.**  
Engineering & Environmental Services

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Seattle, WA 98161

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(425) 466-0770 cell

[dbalbani@pesenv.com](mailto: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](#); [Paul G. Dimakos](#); [Brian O'Neal](#); [Bill Haldeman](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** Re: Former American Linen Supply Company - SMA-2 from 21-19 feet Contained-In Addendum (7/12/2019)  
**Date:** Friday, July 12, 2019 9:08:53 AM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 206 tons of soils from SMA-2 under the contained-in determination.

**From:** Daniel Balbiani <dbalbiani@pesenv.com>  
**Sent:** Friday, July 12, 2019 8:09 AM  
**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; Paul G. Dimakos; Brian O'Neal; Bill Haldeman; Karsten Springstead; Rachel T. McLaughlin  
**Subject:** Former American Linen Supply Company - SMA-2 from 21-19 feet Contained-In Addendum (7/12/2019)

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 **206 tons** of soil from SMA-2 (21 to 19 ft) 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	21	02-21-200-20.5	07/11/19	<0.237 U	<0.190 U	<0.190 U	<0.237 U
	21	02-21-201-19.5	07/11/19	<0.414 U	<0.331 U	<0.331 U	<0.414 U
	21	02-21-202-19.5	07/11/19	0.322	<0.213 U	<0.213 U	<0.266 U
	21	02-21-203-20.5	07/11/19	0.102 J	<0.196 U	<0.196 U	<0.245 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.

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 portions of SMA-2 from elevation 21 to 19 feet that were identified based on field-screening and confirmed by test pit samples (defined by the green dashed lines on the annotated Figure 5a). Pre-treatment concentrations are shown on CMMP Figure 5a 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.

Dan

**Daniel Balbani, 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

[dbalbani@pesenv.com](mailto: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](#); [Paul G. Dimakos](#); [Brian O'Neal](#); [Bill Haldeman](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 23-21 feet Contained-In Addendum (7/09/2019)  
**Date:** Tuesday, July 9, 2019 1:15:36 PM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 206 tons of soil from SMA-2 under the contained-in determination.

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

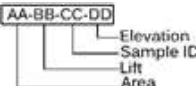
**From:** Daniel Balbiani [mailto:dbalbiani@pesenv.com]  
**Sent:** Tuesday, July 09, 2019 11:51 AM  
**To:** Maeng, Byung (ECY) <BMAE461@ECY.WA.GOV>  
**Cc:** Cardona-Marek, Tamara (ECY) <TACA461@ECY.WA.GOV>; Timm, Ronald W. (ECY) <rtim461@ECY.WA.GOV>; Drew Graham <dgraham@oacsvcs.com>; John Moshy <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>; Paul G. Dimakos <PDimakos@ecc.net>; Brian O'Neal <boneal@pesenv.com>; Bill Haldeman <bhaldeman@pesenv.com>; Karsten Springstead <KSpringstead@pesenv.com>; Rachel T. McLaughlin <RMcLaughlin@pesenv.com>

**Subject:** Former American Linen Supply Company - SMA-2 from 23-21 feet Contained-In Addendum (7/09/2019)  
 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 **206 tons** of soil from SMA-2 (23 to 21) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	23	02-23-200-22.5	07/08/19	0.0889	<0.177 U	<0.177 U	<0.221 U
	23	02-23-201-21.5	07/08/19	0.363	<0.184 U	<0.184 U	<0.229 U
	23	02-23-202-21.5	07/08/19	0.152	<0.181 U	<0.181 U	<0.226 U
	23	02-23-203-22.5	07/08/19	0.616	<0.198 U	<0.198 U	<0.247 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: 

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 portions of SMA-2 from elevation 23 to 21 feet that were identified based on field-screening and confirmed by test pit samples

(defined by the green dashed lines on the annotated Figure 5a). Pre-treatment concentrations are shown on CMMP Figure 5a 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.

**Daniel Balbani, P.E.**

Principal Engineer



**PES Environmental, Inc.**  
Engineering & Environmental Services

1215 Fourth Ave., Suite 1350

Seattle, WA 98161

(206) 529-3980, Ext. #106

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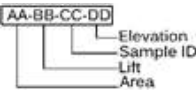
(425) 466-0770 cell

[dbalbani@pesenv.com](mailto:dbalbani@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](#); [Paul G. Dimakos](#); [Brian O'Neal](#); [Bill Haldeman](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** Former American Linen Supply Company - SMA-2 from 23-21 feet Contained-In Addendum (7/09/2019)  
**Date:** Tuesday, July 9, 2019 11:51:34 AM  
**Attachments:** [Rpt\\_1907073\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[image001.png](#)  
[CMMP Figure 4.pdf](#)  
[SMA2 Lift Map 23-21 Updated 070919.pdf](#)  
[Figure 5a from CMMP \(SMA-2\) Updated Treatment 23-21.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 **206 tons** of soil from SMA-2 (23 to 21) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	23	02-23-200-22.5	07/08/19	0.0889	<0.177 U	<0.177 U	<0.221 U
	23	02-23-201-21.5	07/08/19	0.363	<0.184 U	<0.184 U	<0.229 U
	23	02-23-202-21.5	07/08/19	0.152	<0.181 U	<0.181 U	<0.226 U
	23	02-23-203-22.5	07/08/19	0.616	<0.198 U	<0.198 U	<0.247 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: 							

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 portions of SMA-2 from elevation 23 to 21 feet that were identified based on field-screening and confirmed by test pit samples (defined by the green dashed lines on the annotated Figure 5a). Pre-treatment concentrations are shown on CMMP Figure 5a 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.

**Daniel Balbiani, P.E.**  
Principal Engineer



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(206) 529-3985 fax

(425) 466-0770 cell

[dbalbani@pesenv.com](mailto: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](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** RE: Former American Linen Supply Company - SMA-2 from 25-23 Contained-In Addendum (6/27/2019)  
**Date:** Thursday, June 27, 2019 2:12:19 PM  
**Attachments:** [image001.png](#)

Based on the information provided below, Ecology approves the disposal of approximately 200 tons of soil from SMA-2 under the contained-in determination.

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

**From:** Daniel Balbiani [mailto:dbalbiani@pesenv.com]  
**Sent:** Thursday, June 27, 2019 11:14 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>; Karsten Springstead <KSpringstead@pesenv.com>; Rachel T. McLaughlin <RMcLaughlin@pesenv.com>

**Subject:** Former American Linen Supply Company - SMA-2 from 25-23 Contained-In Addendum (6/27/2019)  
 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 **200 tons** of soil from SMA-2 (25 to 23) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	25	02-25-200-24	06/26/19	0.644	<0.206 U	<0.206 U	<0.257 U
	25	02-25-201-23.5	06/26/19	3.23	<0.169 U	<0.169 U	<0.211 U
	25	02-25-202-23.5	06/26/19	2.63	<0.187 U	<0.187 U	<0.233 U
	25	02-25-203-24.5	06/20/19	9.01	<0.202 U	<0.202 U	<0.253 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. <div style="text-align: center;"> </div> 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 5a 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.

Dan

**Daniel Balbiani, P.E.**

Principal Engineer



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(206) 529-3985 fax

(425) 466-0770 cell

[dbalbiani@pesenv.com](mailto:dbalbiani@pesenv.com)

**From:** [Daniel Balbiani](#)  
**To:** [Maeng, Byung \(ECY\)](#)  
**Cc:** [Cardona-Marek, Tamara \(ECY\)](#); [Timms, Ronald W. \(ECY\)](#); [Drew Graham](#); [John Moshv](#); [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](#); [Karsten Springstead](#); [Rachel T. McLaughlin](#)  
**Subject:** Former American Linen Supply Company - SMA-2 from 25-23 Contained-In Addendum (6/27/2019)  
**Date:** Thursday, June 27, 2019 11:14:26 AM  
**Attachments:** [CMMP Figure 4.pdf](#)  
[Figure 5a from CMMP \(SMA-2\).pdf](#)  
[image001.png](#)  
[Rpt\\_1906330\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[Soil Treatment Lift Map 25 SMA2 CID.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 **200 tons** of soil from SMA-2 (25 to 23) ft 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	25	02-25-200-24	06/26/19	0.644	<0.206 U	<0.206 U	<0.257 U
	25	02-25-201-23.5	06/26/19	3.23	<0.169 U	<0.169 U	<0.211 U
	25	02-25-202-23.5	06/26/19	2.63	<0.187 U	<0.187 U	<0.233 U
	25	02-25-203-24.5	06/20/19	9.01	<0.202 U	<0.202 U	<0.253 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: <div style="display: inline-block; vertical-align: middle; margin-left: 20px;"> </div>							

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 5a 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.

Dan

**Daniel Balbiani, P.E.**  
 Principal Engineer

Seattle, WA 98161  
(206) 529-3980, Ext. #106  
(206) 529-3985 fax  
(425) 466-0770 cell  
[dbalbiani@pesenv.com](mailto:dbalbiani@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](#)  
**Subject:** Re: Former American Linen Supply Company - Contained-In Addendum (6/21/19)  
**Date:** Friday, June 21, 2019 12:32:40 PM  
**Attachments:** [image001.png](#)

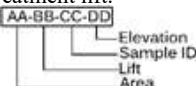
Data reviewed and approximately 200 tons of soil disposal under the contained-in determination approved.

**From:** Daniel Balbiani <dbalbiani@pesenv.com>  
**Sent:** Friday, June 21, 2019 10:37 AM  
**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  
**Subject:** Former American Linen Supply Company - Contained-In Addendum (6/21/19)

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 **200 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	27	02-27-200-26	06/20/19	<0.258 U	<0.206 U	<0.206 U	<0.258 U
	27	02-27-201-26	06/20/19	0.0968	<0.193 U	<0.193 U	<0.242 U
	27	02-27-202-26	06/20/19	0.216	<0.248 U	<0.248 U	<0.311 U
	27	02-27-203-26	06/20/19	0.159	<0.216 U	<0.216 U	<0.269 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:

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 5a 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.

**Daniel Balbiani, P.E.**

Principal Engineer



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**From:** [Maeng, Byung \(ECY\)](#)  
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**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](#)  
**Subject:** Re: Former American Linen Supply Company - Contained-In Addendum (6/21/19)  
**Date:** Friday, June 21, 2019 12:32:40 PM  
**Attachments:** [image001.png](#)

Data reviewed and approximately 200 tons of soil disposal under the contained-in determination approved.

**From:** Daniel Balbiani <dbalbiani@pesenv.com>  
**Sent:** Friday, June 21, 2019 10:37 AM  
**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  
**Subject:** Former American Linen Supply Company - Contained-In Addendum (6/21/19)

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 **200 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	27	02-27-200-26	06/20/19	<0.258 U	<0.206 U	<0.206 U	<0.258 U
	27	02-27-201-26	06/20/19	0.0968	<0.193 U	<0.193 U	<0.242 U
	27	02-27-202-26	06/20/19	0.216	<0.248 U	<0.248 U	<0.311 U
	27	02-27-203-26	06/20/19	0.159	<0.216 U	<0.216 U	<0.269 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 5a 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.

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Principal Engineer



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**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](#)  
**Subject:** Former American Linen Supply Company - Contained-In Addendum (6/21/19)  
**Date:** Friday, June 21, 2019 10:38:03 AM  
**Attachments:** [image001.png](#)  
[Rpt\\_1906256\\_American\\_Linen\\_Final\\_v1.pdf](#)  
[CMMP Figure 4.pdf](#)  
[Soil\\_Treatment\\_Lift\\_27ft.pdf](#)  
[Figure 5a from CMMP \(SMA-2\).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 **200 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	27	02-27-200-26	06/20/19	<0.258 U	<0.206 U	<0.206 U	<0.258 U
	27	02-27-201-26	06/20/19	0.0968	<0.193 U	<0.193 U	<0.242 U
	27	02-27-202-26	06/20/19	0.216	<0.248 U	<0.248 U	<0.311 U
	27	02-27-203-26	06/20/19	0.159	<0.216 U	<0.216 U	<0.269 U

Notes:

1. U = analyte not detected above the reporting limit shown.
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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 5a 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.

**Daniel Balbiani, P.E.**

Principal Engineer



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**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](#)  
**Subject:** RE: Former American Linen Supply Company - Contained-In Addendum (6/12/19)  
**Date:** Wednesday, June 12, 2019 6:51:25 PM  
**Attachments:** [image001.png](#)

Soil sampling data and Figure 5a additionally submitted were reviewed, and disposal of 200 tons of soil from Soil Management Area 2 is approved.

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

**From:** Brian O'Neal [mailto:boneal@pesenv.com]  
**Sent:** Wednesday, June 12, 2019 10:46 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) <JSmith@tcco.com>; Walcott, James P - (SEA) <jpwalcott@tcco.com>; Troy, Ryan - (SEA) <RTroy@tcco.com>; Daniel Balbiani <dbalbiani@pesenv.com>; McDowell, Bryce M - (SEA) <bmcowell@tcco.com>; Brad Rock <brock@oacsvcs.com>; Kim Vik <KVik@pesenv.com>  
**Subject:** Former American Linen Supply Company - Contained-In Addendum (6/12/19)

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 **200 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	29	02-29-200-28.5	06/11/19	0.276 U	<0.221 U	<0.221 U	<0.276 U
	29	02-29-201-27.5	06/11/19	0.309 U	<0.247 U	<0.247 U	<0.309 U
	29	02-29-202-28.5	06/11/19	0.346 U	<0.277 U	<0.277 U	<0.346 U
	29	02-29-203-27.5	06/11/19	0.268	<0.166 U	<0.166 U	<0.208 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:

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 6a 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:** [Brian O'Neal](mailto:Brian.O'Neal)  
**To:** [Byung Maeng \(ECY\) \(BMAE461@ECY.WA.GOV\)](mailto:Byung.Maeng@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](#)  
**Subject:** Former American Linen Supply Company - Contained-In Addendum (6/12/19)  
**Date:** Wednesday, June 12, 2019 10:45:00 AM  
**Attachments:** [image001.png](#)  
[CMMP Figure 4.pdf](#)  
[CMMP Figure 6a.pdf](#)  
[Soil Treatment Lift\\_29ft.pdf](#)  
[Rpt\\_1906114\\_American\\_Linen\\_Final\\_v1.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 **200 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
<b>Contained-In Criteria</b>				<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
2	29	02-29-200-28.5	06/11/19	0.276 U	<0.221 U	<0.221 U	<0.276 U
	29	02-29-201-27.5	06/11/19	0.309 U	<0.247 U	<0.247 U	<0.309 U
	29	02-29-202-28.5	06/11/19	0.346 U	<0.277 U	<0.277 U	<0.346 U
	29	02-29-203-27.5	06/11/19	0.268	<0.166 U	<0.166 U	<0.208 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.

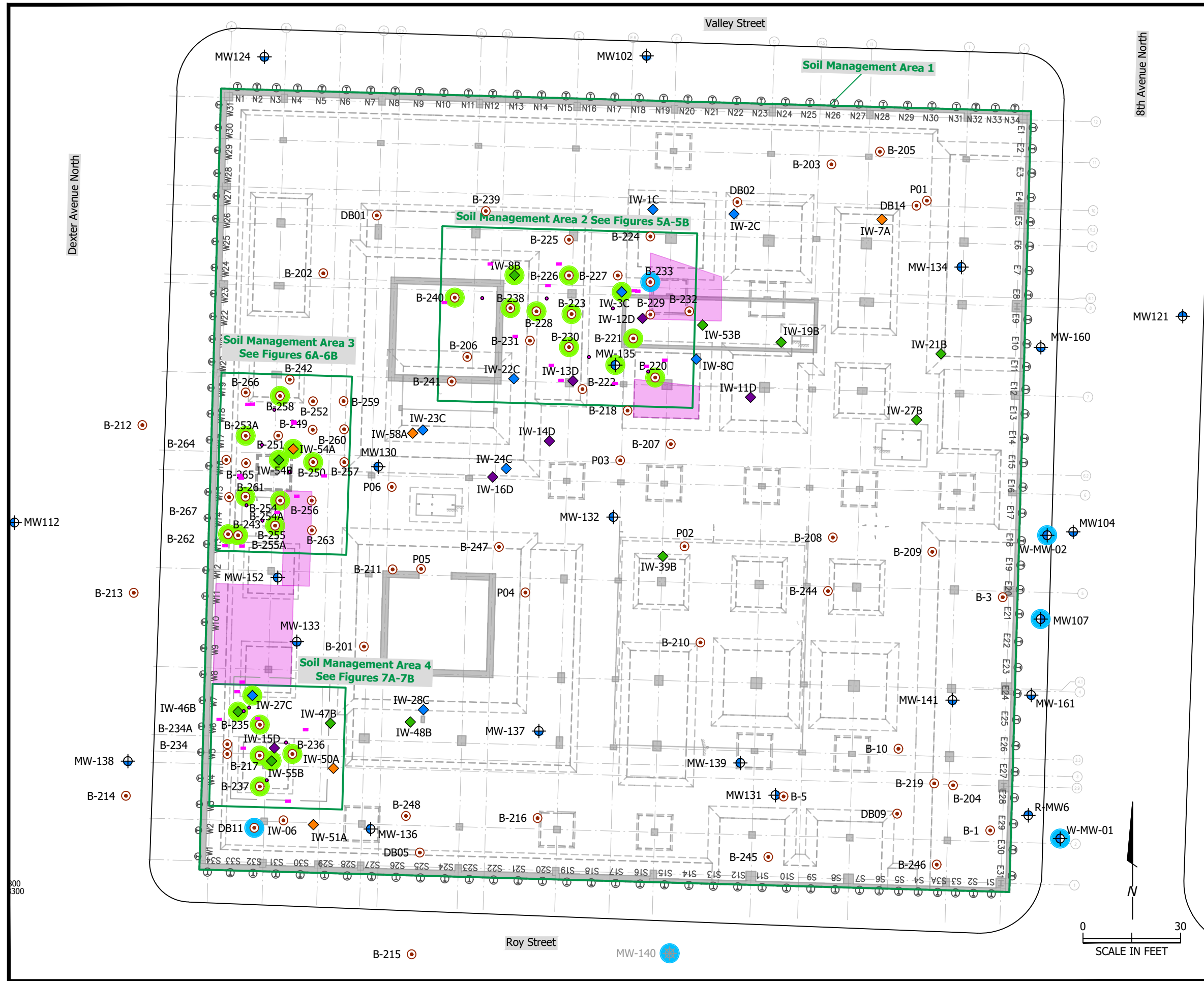
AA-BB-CC-DD  
 Elevation  
 Sample ID  
 Lift  
 Area

- 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 6a 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



- Explanation**
- Limits of Soil Management Areas
  - 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
  - MW-140 ⊗ Destroyed/Abandoned Monitoring Well
  - ⊙ Soldier Pile Location
  - Note: Soldier Piles and other shoring system components (tie backs and soil nails) are included in Soil Management Area 1
  - Sample Location has PCE data exceeding 14 mg/kg above elevation zero and above elevation 0 feet
  - Sample Location has PCE data exceeding 14 mg/kg above elevation zero but below planned excavation depth or off-property
  - Area to be over-excavated below the minimum design elevation down to elevation 5 feet

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



**Soil Management Areas**  
Contaminated Media Management Plan  
Former American Linen Supply  
700 Dexter Avenue North  
Seattle, Washington

**Table E-4-1**  
**SMA-2 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)			
			PCE 14	TCE 10	cDCE 160	VC 0.67
29	02-29-200-28.5	06/11/19	0.276 U	<0.221 U	<0.221 U	<0.276 U
29	02-29-201-27.5	06/11/19	0.309 U	<0.247 U	<0.247 U	<0.309 U
29	02-29-202-28.5	06/11/19	0.346 U	<0.277 U	<0.277 U	<0.346 U
29	02-29-203-27.5	06/11/19	0.208 U	<0.166 U	<0.166 U	<0.208 U
27	02-27-200-26	06/20/19	<0.258 U	<0.206 U	<0.206 U	<0.258 U
27	02-27-201-26	06/20/19	<b>0.0968</b>	<0.193 U	<0.193 U	<0.242 U
27	02-27-202-26	06/20/19	<b>0.216</b>	<0.248 U	<0.248 U	<0.311 U
27	02-27-203-26	06/20/19	<b>0.159</b>	<0.216 U	<0.216 U	<0.269 U
19	02-19-100-18 <sup>1</sup>	06/25/19	<b>0.177</b>	<0.185 U	<0.185 U	<0.232 U
19	02-19-102-18 <sup>1</sup>	06/25/19	<b>3.28</b>	<0.181 U	<0.370 U	<0.227 U
19	02-19-103-18 <sup>1</sup>	06/25/19	<0.248 U	<0.198 U	<b>0.364</b>	<0.248 U
19	02-19-104-18 <sup>1</sup>	06/25/19	<b>0.37</b>	<0.183 U	<b>0.103</b>	<0.228 U
19	02-19-105-18 <sup>1</sup>	06/25/19	<0.226 U	<0.181 U	<b>0.141</b>	<0.226 U
19	02-19-106-18 <sup>1</sup>	06/25/19	<b>0.47</b>	<0.167 U	<b>0.106</b>	<0.209 U
21	02-21-100-20 <sup>1</sup>	06/25/19	<b>0.179</b>	<0.184 U	<0.184 U	<0.230 U
21	02-21-102-20 <sup>1</sup>	06/25/19	<b>3.59</b>	<0.185 U	<b>0.151</b>	<0.232 U
21	02-21-103-20 <sup>1</sup>	06/25/19	<0.234 U	<0.187 U	<0.187 U	<0.234 U
21	02-21-104-20 <sup>1</sup>	06/25/19	<b>0.728</b>	<0.185 U	<b>0.233</b>	<0.231 U
21	02-21-105-20 <sup>1</sup>	06/25/19	<b>0.548</b>	<0.186 U	<b>0.162</b>	<0.232 U
21	02-21-106-20 <sup>1</sup>	06/25/19	<b>1.62</b>	<0.174 U	<b>0.0943</b>	<0.218 U
25	02-25-200-24	06/26/19	<b>0.644</b>	<0.206 U	<0.206 U	<0.257 U
25	02-25-201-23.5	06/26/19	<b>3.23</b>	<0.169 U	<0.169 U	<0.211 U
25	02-25-202-23.5	06/26/19	<b>2.63</b>	<0.187 U	<0.187 U	<0.233 U
25	02-25-203-24.5	06/26/19	<b>9.01</b>	<0.202 U	<0.202 U	<0.253 U
19	02-19-112-18 <sup>1</sup>	06/27/19	<b>2.47</b>	<b>0.103</b>	<b>0.379</b>	<0.230 U
19	02-19-113-18 <sup>1</sup>	06/27/19	<b>1.73</b>	<0.172 U	<b>0.137</b>	<0.216 U
21	02-21-112-20 <sup>1</sup>	06/27/19	<b>0.679</b>	<0.209 U	<b>0.246</b>	<0.261 U
21	02-21-113-20 <sup>1</sup>	06/27/19	<b>4.34</b>	<b>0.182</b>	<b>0.523</b>	<0.256 U
23	02-23-200-22.5	07/08/19	<b>0.0889</b>	<0.177 U	<0.177 U	<0.221 U
23	02-23-201-21.5	07/08/19	<b>0.363</b>	<0.184 U	<0.184 U	<0.229 U
23	02-23-202-21.5	07/08/19	<b>0.152</b>	<0.181 U	<0.181 U	<0.226 U
23	02-23-203-22.5	07/08/19	<b>0.616</b>	<0.198 U	<0.198 U	<0.247 U
21	02-21-200-20.5	07/11/19	<0.237 U	<0.190 U	<0.190 U	<0.237 U
21	02-21-201-19.5	07/11/19	<0.414 U	<0.331 U	<0.331 U	<0.414 U
21	02-21-202-19.5	07/11/19	<0.266 U	<0.213 U	<0.213 U	<0.266 U
21	02-21-203-20.5	07/11/19	<0.245 U	<0.196 U	<0.196 U	<0.245 U
19	02-19-200-17.5	07/15/19	<0.231 U	<0.185 U	<0.185 U	<0.231 U
19	02-19-201-18.5	07/15/19	<0.215 U	<0.172 U	<0.172 U	<0.215 U
19	02-19-202-17.5	07/15/19	<0.214 U	<0.171 U	<0.171 U	<0.214 U
19	02-19-203-18.5	07/15/19	<0.318 U	<0.254 U	<0.254 U	<0.318 U
17	02-17-200-16.5	07/19/19	<b>0.360</b>	<0.212 U	<0.212 U	<0.264 U

**Table E-4-1  
SMA-2 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)			
			PCE <b>14</b>	TCE <b>10</b>	cDCE <b>160</b>	VC <b>0.67</b>
<b>Contained-In Criteria</b>						
17	02-17-201-15.5	07/19/19	<b>0.268</b>	<0.248 U	<0.248 U	<0.311 U
17	02-17-202-16.5	07/19/19	<b>0.362</b>	<0.221 U	<0.221 U	<0.276 U
17	02-17-203-15.5	07/19/19	<b>0.374</b>	<0.256 U	<0.256 U	<0.321 U
15	02-15-202-13.5	08/01/19	<b>0.196</b>	<0.184 U	<0.184 U	<0.230 U
15	02-15-203-13.5	08/01/19	<0.258 U	<0.207 U	<0.207 U	<0.258 U
15	02-15-204-14.5	08/01/19	<b>0.748</b>	<0.249 U	<0.249 U	<0.311 U
15	02-15-205-14.5	08/01/19	<b>0.226</b>	<0.214 U	<0.214 U	<0.268 U
13	02-13-202-12.5	08/06/19	<b>0.242</b>	<0.205 U	<0.205 U	<0.256 U
13	02-13-203-11.5	08/06/19	<b>0.247</b>	<0.190 U	<0.190 U	<0.238 U
13	02-13-204-11.5	08/06/19	<b>0.14</b>	<0.196 U	<0.196 U	<0.245 U
13	02-13-205-12.5	08/06/19	<b>0.39</b>	<0.243 U	<0.243 U	<0.303 U
9	02-09-206-09	08/13/19	<0.268 U	<0.214	<0.214	<0.268
9	02-09-207-09	08/13/19	<b>0.111</b>	<0.194	<0.194	<0.242
11	02-11-202-10.5	08/13/19	<b>0.261</b>	<0.228	<0.228	<0.284
11	02-11-203-09.5	08/13/19	<b>0.165</b>	<0.186	<0.186	<0.233
11	02-11-204-09.5	08/13/19	<b>0.116</b>	<0.203	<0.203	<0.253
11	02-11-205-10.5	08/13/19	<b>0.584</b>	<0.193	<0.193	<0.241
7	02-07-202-05.5	08/16/19	<b>0.278</b>	<0.213	<0.213	<0.266
7	02-07-203-06	08/16/19	<b>0.224</b>	<0.221	<0.221	<0.276
9	02-09-202-07	08/16/19	<b>0.23</b>	<0.185	<0.185	<0.232
9	02-09-203-07	08/16/19	<b>1.51</b>	<0.192	<0.192	<0.241
9	02-09-204-07.5 <sup>2</sup>	08/16/19	<b>22.2</b>	<0.231	<0.231	<0.289
9	02-09-205-07.5	08/16/19	<b>0.332</b>	<0.219	<0.219	<0.274
7	02-07-207-05.5	08/20/19	<b>2.80</b>	<0.204	<0.204	<0.255
7	02-07-208-06	08/20/19	<0.237 U	<0.189	<0.189	<0.237
9	02-09-207-07	08/20/19	<b>0.756</b>	<0.182	<0.182	<0.228
9	02-09-208-07.5	08/20/19	<0.255 U	<0.204	<0.204	<0.255

Notes:  
PCE = Tetrachloroethene  
TCE = Trichloroethene  
cDCE = Cis 1,2-Dichloroethene  
VC = Vinyl Chloride  
1. Sample collected to confirm saturated soil in Intermediate A Zone meets CID criteria  
2. Area retreated - see 8/20/19 sample results  
3. U = analyte not detected above the reporting limit shown  
4. J = analyte detected above the method detection limit but below the reporting limit  
5. Lift elevation is the top of each treatment lift  
6. Detected results shown in **bold**  
7. Detections above the contained-in criteria are highlighted in gray  
8. Sample naming convention:

AA-BB-CC-DD  
├── Elevation  
├── Sample ID  
├── Lift  
└── Area

**SMA-2 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	
02-OB-100-30.5	6/5/19	30.5	0.274	U	0.219	U	<b>0.133</b>	<b>J</b>	0.274	U
02-OB-100-29.5	6/5/19	29.5	0.253	U	0.202	U	<b>0.126</b>	<b>J</b>	0.253	U
02-OB-101-30.5	6/5/19	30.5	0.251	U	0.201	U	<b>0.472</b>		0.251	U
02-OB-101-29.5	6/5/19	29.5	0.245	U	0.196	U	0.196	U	0.245	U
02-OB-102-30.5	6/5/19	30.5	<b>0.989</b>		0.231	U	0.231	U	0.288	U
02-OB-102-29.5	6/5/19	29.5	<b>0.351</b>		0.215	U	0.215	U	0.269	U
02-OB-103-30.5	6/5/19	30.5	0.338	U	0.270	U	<b>0.235</b>	<b>J</b>	0.338	U
02-OB-103-29.5	6/5/19	29.5	<b>3.59</b>		<b>1.06</b>		<b>4.30</b>		0.537	U
02-OB-104-30.5	6/5/19	30.5	<b>0.270</b>		0.206	U	0.206	U	0.257	U
02-OB-104-29.5	6/5/19	29.5	<b>0.186</b>	<b>J</b>	0.223	U	0.223	U	0.279	U
02-OB-105-30.5	6/5/19	30.5	0.271	U	0.217	U	<b>0.372</b>		0.271	U
02-OB-105-29.5	6/5/19	29.5	0.255	U	0.204	U	0.204	U	0.255	U
02-OB-106-30.5	6/5/19	30.5	<b>0.405</b>		0.194	U	0.194	U	0.242	U
02-OB-106-29.5	6/5/19	29.5	0.229	U	0.183	U	<b>0.104</b>	<b>J</b>	0.229	U
02-OB-000-30.5	6/5/19	30.5	<b>0.107</b>	<b>J</b>	0.196	U	0.196	U	0.245	U
02-OB-000-29.5	6/5/19	29.5	0.231	U	0.185	U	0.185	U	0.231	U
02-OB-001-30.5	6/5/19	30.5	0.253	U	0.203	U	<b>0.245</b>		0.253	U
02-OB-001-29.5	6/5/19	29.5	0.283	U	0.227	U	0.227	U	0.283	U
02-OB-002-30.5	6/5/19	30.5	<b>0.403</b>		0.208	U	<b>0.231</b>		0.260	U
02-OB-002-29.5	6/5/19	29.5	<b>0.355</b>		0.242	U	<b>0.157</b>	<b>J</b>	0.303	U
02-OB-003-30.5	6/5/19	30.5	<b>0.191</b>	<b>J</b>	0.202	U	0.202	U	0.253	U
02-OB-003-29.5	6/5/19	29.5	<b>0.254</b>	<b>J</b>	0.223	U	0.223	U	0.279	U
02-29-100-28	6/5/19	29	<b>0.325</b>		<b>0.105</b>	<b>J</b>	<b>0.632</b>		0.241	U
02-29-101-28	6/5/19	29	0.260	U	0.208	U	<b>0.120</b>	<b>J</b>	0.260	U
02-29-102-28	6/5/19	29	<b>0.222</b>	<b>J</b>	0.214	U	<b>0.669</b>		0.268	U
02-29-103-28	6/5/19	29	0.298	U	0.238	U	<b>0.736</b>		0.298	U
02-29-104-28	6/5/19	29	0.246	U	0.197	U	0.197	U	0.246	U
02-29-105-28	6/5/19	29	0.239	U	0.191	U	0.191	U	0.239	U
02-29-106-28	6/5/19	29	0.245	U	0.196	U	0.196	U	0.245	U
02-27-100-26	6/5/19	27	<b>1.77</b>		<b>0.336</b>		<b>0.555</b>		0.212	U
02-25-100-24	6/5/19	25	<b>1.78</b>		0.186	U	0.186	U	0.233	U
02-27-101-26	6/5/19	27	<b>2.58</b>		0.209		<b>0.714</b>		0.224	U
02-25-101-24	6/5/19	25	<b>2.92</b>		0.121	J	<b>0.407</b>		0.199	U
02-27-102-26	6/5/19	27	0.239	U	0.191	U	0.191	U	0.239	U
02-25-102-24	6/5/19	25	<b>0.0970</b>	<b>J</b>	0.162	U	<b>0.0988</b>	<b>J</b>	0.202	U
02-27-103-26	6/5/19	27	<b>0.142</b>	<b>J</b>	0.224	U	<b>0.606</b>		0.280	U
02-25-103-24	6/5/19	25	0.266	U	0.212	U	0.212	U	0.266	U
02-27-104-26	6/5/19	27	<b>0.121</b>	<b>J</b>	0.230	U	0.230	U	0.288	U
02-25-104-24	6/5/19	25	0.240	U	0.192	U	0.192	U	0.240	U
02-27-105-26	6/5/19	27	0.263	U	0.210	U	0.210	U	0.263	U

**SMA-2 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
<b>Contained-In Criteria</b>			<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
02-25-105-24	6/5/19	25	<b>1.05</b>	0.173 U	0.173 U	0.216 U
02-27-106-26	6/5/19	27	<b>0.313</b>	0.202 U	<b>0.148 J</b>	0.252 U
02-25-106-24	6/5/19	25	<b>0.902</b>	<b>0.101 J</b>	<b>0.333</b>	0.214 U
02-23-103-22	6/25/19	22	0.237 U	0.190 U	<b>0.443</b>	0.237 U
02-23-104-22	6/25/19	22	<b>0.751</b>	<b>0.139 J</b>	<b>0.120 J</b>	0.251 U
02-23-105-22	6/25/19	22	<b>3.44</b>	<b>0.154 J</b>	<b>0.254</b>	0.252 U
02-23-106-22	6/25/19	22	<b>0.590</b>	0.174 U	0.174 U	0.217 U
02-23-100-22	6/25/19	22	<b>0.923</b>	<b>0.130 J</b>	<b>0.548</b>	0.228 U
02-23-101-22	6/25/19	22	<b>14.6</b>	<b>0.425</b>	<b>1.25</b>	0.230 U
02-23-102-22	6/25/19	22	<b>1.28</b>	0.188 U	<b>0.264</b>	0.235 U
02-21-100-20	6/25/19	20	<b>0.179 J</b>	0.184 U	0.184 U	0.230 U
02-19-100-18	6/25/19	18	<b>0.177 J</b>	0.185 U	0.185 U	0.232 U
02-21-101-20	6/25/19	20	<b>9.74</b>	<b>0.357</b>	<b>0.689</b>	0.237 U
02-19-101-18.5	6/25/19	18.5	<b>20.2</b>	<b>0.734</b>	<b>1.54</b>	0.293 U
02-21-102-20	6/25/19	20	<b>3.59</b>	0.185 U	<b>0.151 J</b>	0.232 U
02-19-102-18	6/25/19	18	<b>3.28</b>	<b>0.181 J</b>	<b>0.370</b>	0.227 U
02-21-103-20	6/25/19	20	0.234 U	0.187 U	0.187 U	0.234 U
02-19-103-18	6/25/19	18	0.248 U	0.198 U	<b>0.364</b>	0.248 U
02-21-104-20	6/25/19	20	<b>0.728</b>	0.185 U	<b>0.233</b>	0.231 U
02-19-104-18	6/25/19	18	<b>0.370</b>	0.183 U	<b>0.103 J</b>	0.228 U
02-21-105-20	6/25/19	20	<b>0.548</b>	0.186 U	<b>0.162 J</b>	0.232 U
02-19-105-18	6/25/19	18	0.226 U	0.181 U	<b>0.141 J</b>	0.226 U
02-21-106-20	6/25/19	20	<b>1.62</b>	0.174 U	<b>0.0943 J</b>	0.218 U
02-19-106-18	6/25/19	18	<b>0.470</b>	0.167 U	<b>0.106 J</b>	0.209 U
02-23-114-22	6/27/19	22	<b>0.919</b>	0.188 U	<b>0.140 J</b>	0.236 U
02-21-114-20	6/27/19	20	<b>0.625</b>	0.194 U	<b>0.242</b>	0.242 U
02-23-115-22	6/27/19	22	<b>0.200 J</b>	0.168 U	<b>0.0885 J</b>	0.211 U
02-21-115-20	6/27/19	20	<b>0.957</b>	0.187 U	<b>0.123 J</b>	0.234 U
02-23-112-22	6/27/19	22	<b>5.53</b>	<b>0.365</b>	<b>1.26</b>	0.238 U
02-21-112-20	6/27/19	20	<b>0.679</b>	0.209 U	<b>0.246</b>	0.261 U
02-19-112-18	6/27/19	18	<b>2.47</b>	<b>0.103 J</b>	<b>0.379</b>	0.230 U
02-23-113-22	6/27/19	22	<b>3.32</b>	<b>0.154 J</b>	<b>0.410</b>	0.213 U
02-21-113-20	6/27/19	20	<b>4.34</b>	<b>0.182 J</b>	<b>0.523</b>	0.256 U
02-19-113-18	6/27/19	18	<b>1.73</b>	0.172 U	<b>0.137 J</b>	0.216 U
02-17-100-16	7/17/19	16	<b>0.0940 J</b>	0.184 U	0.184 U	0.231 U
02-17-101-16	7/17/19	16	<b>0.255</b>	0.194 U	0.194 U	0.242 U
02-17-102-16	7/17/19	16	<b>1.29</b>	0.193 U	<b>0.088 J</b>	0.241 U
02-17-103-16	7/17/19	16	<b>3.54</b>	<b>0.305</b>	<b>1.01</b>	0.243 U
02-17-104-16	7/17/19	16	0.280 U	0.224 U	0.224 U	0.280 U
02-17-105-16	7/17/19	16	0.249 U	0.200 U	0.200 U	0.249 U

**SMA-2 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	
02-17-106-16	7/17/19	16	0.327		0.177	U	0.177	U	0.221	U
02-17-116-16	7/17/19	16	0.236	U	0.189	U	0.189	U	0.236	U
02-17-117-16	7/17/19	16	0.591		0.192	U	3.71		0.240	U
02-OB-004-16.5	7/17/19	16.5	2.49		0.229		0.763		0.242	U
02-OB-004-15.5	7/17/19	15.5	3.76		0.297		0.737		0.248	U
02-15-BE-14	7/30/19	14	0.436		0.222	U	0.179	J	0.277	U
02-15-BE1-14	7/30/19	14	0.255	U	0.204	U	0.204	U	0.255	U
02-15-107-14	7/30/19	14	0.501		0.168	U	0.232		0.211	U
02-15-108-14	7/30/19	14	0.147	J	0.219	U	1.33		0.274	U
02-15-109-14	7/30/19	14	0.137	J	0.186	U	0.654		0.233	U
02-15-110-14	7/30/19	14	0.283	U	0.226	U	0.226	U	0.283	U
02-15-111-14	7/30/19	14	0.268	U	0.215	U	0.215	U	0.268	U
02-13-107-12	7/30/19	12	0.850		0.188	U	0.281		0.235	U
02-11-107-10	7/30/19	10	0.254		0.202	U	0.502		0.253	U
02-13-108-12	7/30/19	12	0.148	J	0.218	U	1.44		0.273	U
02-11-108-10	7/30/19	10	0.650		0.181	U	0.885		0.226	U
02-13-109-12	7/30/19	12	0.127	J	0.201	U	0.202		0.251	U
02-11-109-10	7/30/19	10	0.222	J	0.223	U	0.234		0.278	U
02-13-110-12	7/30/19	12	0.248	J	0.200	U	0.102	J	0.251	U
02-11-110-10	7/30/19	10	0.252	U	0.202	U	0.202	U	0.252	U
02-13-111-12	7/30/19	12	0.275	U	0.220	U	0.220	U	0.275	U
02-11-111-10	7/30/19	10	0.251	U	0.201	U	0.201	U	0.251	U
02-09-109-08	8/8/19	8	0.178	J	0.0334	J	2.33		0.225	U
02-09-108-08	8/8/19	8	1.66		0.127	J	1.69		0.248	U
02-09-107-08	8/8/19	8	0.104	J	0.208	U	0.208	U	0.26	U
02-09-110-08	8/8/19	8	0.244	U	0.195	U	0.0505	J	0.244	U
02-09-111-08	8/8/19	8	0.234	U	0.187	U	0.187	U	0.234	U
02-07-109-06	8/8/19	6	16.8		0.399		1.21		0.269	U
02-07-108-06	8/8/19	6	1.66		0.329		5.63		0.252	U
02-07-110-06	8/8/19	6	0.0933	J	0.167	U	0.110	J	0.209	U
02-07-111-06	8/8/19	6	0.246	U	0.197	U	0.197	U	0.246	U
02-07-107-06	8/8/19	6	0.221	U	0.177	U	0.177	U	0.221	U
02-07-120-06	8/8/19	6	0.290		0.186	U	0.186	U	0.233	U
02-07-121-06	8/8/19	6	0.374		0.195	U	0.949		0.244	U
02-09-118-08	8/8/19	8	5.49		0.217	J	0.641		0.278	U
02-09-119-08	8/8/19	8	10.2		0.518		1.29		0.296	U
02-09-120-08	8/8/19	8	1.68		0.150	J	2.19		0.108	J
02-09-121-08	8/8/19	8	0.226	U	0.181	U	0.181	U	0.226	U

## Notes:

VOCs analyzed by EPA Method 8260C

**SMA-2 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
<b>Contained-In Criteria</b>			<b>14</b>	<b>10</b>	<b>160</b>	<b>0.67</b>
<p>Detected results shown in bold.</p> <p>Detected results above the contained-in criteria are highlighted in gray. Treatment area expanded to include sample location and new bounding samples collected</p> <p>Sample IDs with "OB" indicate the sample was collected from the overburden layer per the CMMP</p> <p>cDCE = cis-1,2-dichloroethene</p> <p>PCE = perchloroethylene (tetrachloroethene)</p> <p>TCE = trichloroethene</p> <p>VC = vinyl chloride</p> <p>– = Not analyzed or results not available</p> <p>U = Analyte not detected at or above the reporting limit shown.</p> <p>J = Analyte detected above the method detection limit, but below the method reporting limit. The result is an estimated value.</p>						



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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: 1906050**

June 07, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 23 sample(s) on 6/5/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**  
Karsten Springstead  
Kim Vik



**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906050

**Work Order Sample Summary**

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
1906050-001	02-OB-100-30.5	06/05/2019 2:46 PM	06/05/2019 4:25 PM
1906050-002	02-OB-100-29.5	06/05/2019 3:00 PM	06/05/2019 4:25 PM
1906050-003	02-OB-101-30.5	06/05/2019 3:13 PM	06/05/2019 4:25 PM
1906050-004	02-OB-101-29.5	06/05/2019 3:16 PM	06/05/2019 4:25 PM
1906050-005	02-OB-102-30.5	06/05/2019 3:20 PM	06/05/2019 4:25 PM
1906050-006	02-OB-102-29.5	06/05/2019 3:23 PM	06/05/2019 4:25 PM
1906050-007	02-OB-103-30.5	06/05/2019 2:27 PM	06/05/2019 4:25 PM
1906050-008	02-OB-103-29.5	06/05/2019 2:31 PM	06/05/2019 4:25 PM
1906050-009	02-OB-104-30.5	06/05/2019 2:12 PM	06/05/2019 4:25 PM
1906050-010	02-OB-104-29.5	06/05/2019 2:50 PM	06/05/2019 4:25 PM
1906050-011	02-OB-105-30.5	06/05/2019 1:56 PM	06/05/2019 4:25 PM
1906050-012	02-OB-105-29.5	06/05/2019 1:58 PM	06/05/2019 4:25 PM
1906050-013	02-OB-106-30.5	06/05/2019 1:31 PM	06/05/2019 4:25 PM
1906050-014	02-OB-106-29.5	06/05/2019 1:34 PM	06/05/2019 4:25 PM
1906050-015	02-OB-000-30.5	06/05/2019 1:49 PM	06/05/2019 4:25 PM
1906050-016	02-OB-000-29.5	06/05/2019 1:53 PM	06/05/2019 4:25 PM
1906050-017	02-OB-001-30.5	06/05/2019 3:12 PM	06/05/2019 4:25 PM
1906050-018	02-OB-001-29.5	06/05/2019 3:14 PM	06/05/2019 4:25 PM
1906050-019	02-OB-002-30.5	06/05/2019 2:45 PM	06/05/2019 4:25 PM
1906050-020	02-OB-002-29.5	06/05/2019 2:48 PM	06/05/2019 4:25 PM
1906050-021	02-OB-003-30.5	06/05/2019 2:22 PM	06/05/2019 4:25 PM
1906050-022	02-OB-003-29.5	06/05/2019 2:26 PM	06/05/2019 4:25 PM
1906050-023	B-944-29	06/05/2019 2:49 PM	06/05/2019 4:25 PM

**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

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**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.

**Project:** American Linen

**Lab ID:** 1906050-001

**Collection Date:** 6/5/2019 2:46:00 PM

**Client Sample ID:** 02-OB-100-30.5

**Matrix:** Soil

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

Batch ID: 24816

Analyst: KT

Vinyl chloride	ND	0.274	D	mg/Kg-dry	10	6/6/2019 2:16:04 AM
cis-1,2-Dichloroethene	0.133	0.219	DJ	mg/Kg-dry	10	6/6/2019 2:16:04 AM
Trichloroethene (TCE)	ND	0.219	D	mg/Kg-dry	10	6/6/2019 2:16:04 AM
Tetrachloroethene (PCE)	ND	0.274	D	mg/Kg-dry	10	6/6/2019 2:16:04 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/6/2019 2:16:04 AM
Surr: Toluene-d8	91.5	64.5 - 151	D	%Rec	10	6/6/2019 2:16:04 AM
Surr: 1-Bromo-4-fluorobenzene	98.7	54.8 - 168	D	%Rec	10	6/6/2019 2:16:04 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	11.3	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-002

**Collection Date:** 6/5/2019 3:00:00 PM

**Client Sample ID:** 02-OB-100-29.5

**Matrix:** Soil

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

Batch ID: 24816

Analyst: KT

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	6/6/2019 2:46:57 AM
cis-1,2-Dichloroethene	0.126	0.202	DJ	mg/Kg-dry	10	6/6/2019 2:46:57 AM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	6/6/2019 2:46:57 AM
Tetrachloroethene (PCE)	ND	0.253	D	mg/Kg-dry	10	6/6/2019 2:46:57 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/6/2019 2:46:57 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/6/2019 2:46:57 AM
Surr: 1-Bromo-4-fluorobenzene	92.7	54.8 - 168	D	%Rec	10	6/6/2019 2:46:57 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	11.6	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-003

**Collection Date:** 6/5/2019 3:13:00 PM

**Client Sample ID:** 02-OB-101-30.5

**Matrix:** Soil

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

Batch ID: 24816

Analyst: KT

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	6/6/2019 3:17:43 AM
cis-1,2-Dichloroethene	0.472	0.201	D	mg/Kg-dry	10	6/6/2019 3:17:43 AM
Trichloroethene (TCE)	ND	0.201	D	mg/Kg-dry	10	6/6/2019 3:17:43 AM
Tetrachloroethene (PCE)	ND	0.251	D	mg/Kg-dry	10	6/6/2019 3:17:43 AM
Surr: Dibromofluoromethane	99.4	56.5 - 129	D	%Rec	10	6/6/2019 3:17:43 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/6/2019 3:17:43 AM
Surr: 1-Bromo-4-fluorobenzene	82.1	54.8 - 168	D	%Rec	10	6/6/2019 3:17:43 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	11.7	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-004

**Collection Date:** 6/5/2019 3:16:00 PM

**Client Sample ID:** 02-OB-101-29.5

**Matrix:** Soil

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

Batch ID: 24816

Analyst: KT

Vinyl chloride	ND	0.245	D	mg/Kg-dry	10	6/6/2019 3:48:30 AM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	6/6/2019 3:48:30 AM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	6/6/2019 3:48:30 AM
Tetrachloroethene (PCE)	ND	0.245	D	mg/Kg-dry	10	6/6/2019 3:48:30 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/6/2019 3:48:30 AM
Surr: Toluene-d8	92.7	64.5 - 151	D	%Rec	10	6/6/2019 3:48:30 AM
Surr: 1-Bromo-4-fluorobenzene	84.9	54.8 - 168	D	%Rec	10	6/6/2019 3:48:30 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	10.5	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-005

**Collection Date:** 6/5/2019 3:20:00 PM

**Client Sample ID:** 02-OB-102-30.5

**Matrix:** Soil

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

Batch ID: 24816

Analyst: KT

Vinyl chloride	ND	0.288	D	mg/Kg-dry	10	6/6/2019 4:19:26 AM
cis-1,2-Dichloroethene	ND	0.231	D	mg/Kg-dry	10	6/6/2019 4:19:26 AM
Trichloroethene (TCE)	ND	0.231	D	mg/Kg-dry	10	6/6/2019 4:19:26 AM
Tetrachloroethene (PCE)	0.989	0.288	D	mg/Kg-dry	10	6/6/2019 4:19:26 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/6/2019 4:19:26 AM
Surr: Toluene-d8	91.2	64.5 - 151	D	%Rec	10	6/6/2019 4:19:26 AM
Surr: 1-Bromo-4-fluorobenzene	99.6	54.8 - 168	D	%Rec	10	6/6/2019 4:19:26 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	13.7	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-006

**Collection Date:** 6/5/2019 3:23:00 PM

**Client Sample ID:** 02-OB-102-29.5

**Matrix:** Soil

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

Batch ID: 24816

Analyst: KT

Vinyl chloride	ND	0.269	D	mg/Kg-dry	10	6/6/2019 4:50:23 AM
cis-1,2-Dichloroethene	ND	0.215	D	mg/Kg-dry	10	6/6/2019 4:50:23 AM
Trichloroethene (TCE)	ND	0.215	D	mg/Kg-dry	10	6/6/2019 4:50:23 AM
Tetrachloroethene (PCE)	0.351	0.269	D	mg/Kg-dry	10	6/6/2019 4:50:23 AM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	6/6/2019 4:50:23 AM
Surr: Toluene-d8	96.0	64.5 - 151	D	%Rec	10	6/6/2019 4:50:23 AM
Surr: 1-Bromo-4-fluorobenzene	89.2	54.8 - 168	D	%Rec	10	6/6/2019 4:50:23 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	13.3	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-007

**Collection Date:** 6/5/2019 2:27:00 PM

**Client Sample ID:** 02-OB-103-30.5

**Matrix:** Soil

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

Batch ID: 24816

Analyst: KT

Vinyl chloride	ND	0.338	D	mg/Kg-dry	10	6/6/2019 5:21:21 AM
cis-1,2-Dichloroethene	0.235	0.270	DJ	mg/Kg-dry	10	6/6/2019 5:21:21 AM
Trichloroethene (TCE)	ND	0.270	D	mg/Kg-dry	10	6/6/2019 5:21:21 AM
Tetrachloroethene (PCE)	ND	0.338	D	mg/Kg-dry	10	6/6/2019 5:21:21 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/6/2019 5:21:21 AM
Surr: Toluene-d8	83.4	64.5 - 151	D	%Rec	10	6/6/2019 5:21:21 AM
Surr: 1-Bromo-4-fluorobenzene	95.4	54.8 - 168	D	%Rec	10	6/6/2019 5:21:21 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	37.2	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-008

**Collection Date:** 6/5/2019 2:31:00 PM

**Client Sample ID:** 02-OB-103-29.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.537	D	mg/Kg-dry	10	6/6/2019 10:09:15 AM
cis-1,2-Dichloroethene	4.30	0.429	D	mg/Kg-dry	10	6/6/2019 10:09:15 AM
Trichloroethene (TCE)	1.06	0.429	D	mg/Kg-dry	10	6/6/2019 10:09:15 AM
Tetrachloroethene (PCE)	3.59	0.537	D	mg/Kg-dry	10	6/6/2019 10:09:15 AM
Surr: Dibromofluoromethane	96.1	56.5 - 129	D	%Rec	10	6/6/2019 10:09:15 AM
Surr: Toluene-d8	97.0	64.5 - 151	D	%Rec	10	6/6/2019 10:09:15 AM
Surr: 1-Bromo-4-fluorobenzene	98.8	54.8 - 168	D	%Rec	10	6/6/2019 10:09:15 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	40.3	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-009

**Collection Date:** 6/5/2019 2:12:00 PM

**Client Sample ID:** 02-OB-104-30.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.257	D	mg/Kg-dry	10	6/6/2019 12:09:45 PM
cis-1,2-Dichloroethene	ND	0.206	D	mg/Kg-dry	10	6/6/2019 12:09:45 PM
Trichloroethene (TCE)	ND	0.206	D	mg/Kg-dry	10	6/6/2019 12:09:45 PM
Tetrachloroethene (PCE)	0.270	0.257	D	mg/Kg-dry	10	6/6/2019 12:09:45 PM
Surr: Dibromofluoromethane	96.6	56.5 - 129	D	%Rec	10	6/6/2019 12:09:45 PM
Surr: Toluene-d8	96.6	64.5 - 151	D	%Rec	10	6/6/2019 12:09:45 PM
Surr: 1-Bromo-4-fluorobenzene	97.9	54.8 - 168	D	%Rec	10	6/6/2019 12:09:45 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	10.2	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-010

**Collection Date:** 6/5/2019 2:50:00 PM

**Client Sample ID:** 02-OB-104-29.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.279	D	mg/Kg-dry	10	6/6/2019 12:39:53 PM
cis-1,2-Dichloroethene	ND	0.223	D	mg/Kg-dry	10	6/6/2019 12:39:53 PM
Trichloroethene (TCE)	ND	0.223	D	mg/Kg-dry	10	6/6/2019 12:39:53 PM
Tetrachloroethene (PCE)	0.186	0.279	DJ	mg/Kg-dry	10	6/6/2019 12:39:53 PM
Surr: Dibromofluoromethane	97.8	56.5 - 129	D	%Rec	10	6/6/2019 12:39:53 PM
Surr: Toluene-d8	97.3	64.5 - 151	D	%Rec	10	6/6/2019 12:39:53 PM
Surr: 1-Bromo-4-fluorobenzene	98.8	54.8 - 168	D	%Rec	10	6/6/2019 12:39:53 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	11.4	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-011

**Collection Date:** 6/5/2019 1:56:00 PM

**Client Sample ID:** 02-OB-105-30.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.271	D	mg/Kg-dry	10	6/6/2019 1:10:01 PM
cis-1,2-Dichloroethene	0.372	0.217	D	mg/Kg-dry	10	6/6/2019 1:10:01 PM
Trichloroethene (TCE)	ND	0.217	D	mg/Kg-dry	10	6/6/2019 1:10:01 PM
Tetrachloroethene (PCE)	ND	0.271	D	mg/Kg-dry	10	6/6/2019 1:10:01 PM
Surr: Dibromofluoromethane	97.1	56.5 - 129	D	%Rec	10	6/6/2019 1:10:01 PM
Surr: Toluene-d8	96.7	64.5 - 151	D	%Rec	10	6/6/2019 1:10:01 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/6/2019 1:10:01 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	11.7	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-012

**Collection Date:** 6/5/2019 1:58:00 PM

**Client Sample ID:** 02-OB-105-29.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.255	D	mg/Kg-dry	10	6/6/2019 1:40:08 PM
cis-1,2-Dichloroethene	ND	0.204	D	mg/Kg-dry	10	6/6/2019 1:40:08 PM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	6/6/2019 1:40:08 PM
Tetrachloroethene (PCE)	ND	0.255	D	mg/Kg-dry	10	6/6/2019 1:40:08 PM
Surr: Dibromofluoromethane	97.2	56.5 - 129	D	%Rec	10	6/6/2019 1:40:08 PM
Surr: Toluene-d8	97.6	64.5 - 151	D	%Rec	10	6/6/2019 1:40:08 PM
Surr: 1-Bromo-4-fluorobenzene	96.3	54.8 - 168	D	%Rec	10	6/6/2019 1:40:08 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	10.4	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-013

**Collection Date:** 6/5/2019 1:31:00 PM

**Client Sample ID:** 02-OB-106-30.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.242	D	mg/Kg-dry	10	6/6/2019 2:10:16 PM
cis-1,2-Dichloroethene	ND	0.194	D	mg/Kg-dry	10	6/6/2019 2:10:16 PM
Trichloroethene (TCE)	ND	0.194	D	mg/Kg-dry	10	6/6/2019 2:10:16 PM
Tetrachloroethene (PCE)	0.405	0.242	D	mg/Kg-dry	10	6/6/2019 2:10:16 PM
Surr: Dibromofluoromethane	97.7	56.5 - 129	D	%Rec	10	6/6/2019 2:10:16 PM
Surr: Toluene-d8	97.2	64.5 - 151	D	%Rec	10	6/6/2019 2:10:16 PM
Surr: 1-Bromo-4-fluorobenzene	99.5	54.8 - 168	D	%Rec	10	6/6/2019 2:10:16 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	12.8	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-014

**Collection Date:** 6/5/2019 1:34:00 PM

**Client Sample ID:** 02-OB-106-29.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.229	D	mg/Kg-dry	10	6/6/2019 3:39:17 PM
cis-1,2-Dichloroethene	0.104	0.183	DJ	mg/Kg-dry	10	6/6/2019 3:39:17 PM
Trichloroethene (TCE)	ND	0.183	D	mg/Kg-dry	10	6/6/2019 3:39:17 PM
Tetrachloroethene (PCE)	ND	0.229	D	mg/Kg-dry	10	6/6/2019 3:39:17 PM
Surr: Dibromofluoromethane	96.9	56.5 - 129	D	%Rec	10	6/6/2019 3:39:17 PM
Surr: Toluene-d8	95.6	64.5 - 151	D	%Rec	10	6/6/2019 3:39:17 PM
Surr: 1-Bromo-4-fluorobenzene	96.8	54.8 - 168	D	%Rec	10	6/6/2019 3:39:17 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	11.4	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-015

**Collection Date:** 6/5/2019 1:49:00 PM

**Client Sample ID:** 02-OB-000-30.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.245	D	mg/Kg-dry	10	6/6/2019 4:09:23 PM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	6/6/2019 4:09:23 PM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	6/6/2019 4:09:23 PM
Tetrachloroethene (PCE)	0.107	0.245	DJ	mg/Kg-dry	10	6/6/2019 4:09:23 PM
Surr: Dibromofluoromethane	93.7	56.5 - 129	D	%Rec	10	6/6/2019 4:09:23 PM
Surr: Toluene-d8	94.8	64.5 - 151	D	%Rec	10	6/6/2019 4:09:23 PM
Surr: 1-Bromo-4-fluorobenzene	97.8	54.8 - 168	D	%Rec	10	6/6/2019 4:09:23 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	9.67	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-016

**Collection Date:** 6/5/2019 1:53:00 PM

**Client Sample ID:** 02-OB-000-29.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.231	D	mg/Kg-dry	10	6/6/2019 4:39:31 PM
cis-1,2-Dichloroethene	ND	0.185	D	mg/Kg-dry	10	6/6/2019 4:39:31 PM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	6/6/2019 4:39:31 PM
Tetrachloroethene (PCE)	ND	0.231	D	mg/Kg-dry	10	6/6/2019 4:39:31 PM
Surr: Dibromofluoromethane	95.2	56.5 - 129	D	%Rec	10	6/6/2019 4:39:31 PM
Surr: Toluene-d8	96.2	64.5 - 151	D	%Rec	10	6/6/2019 4:39:31 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	54.8 - 168	D	%Rec	10	6/6/2019 4:39:31 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	11.1	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-017

**Collection Date:** 6/5/2019 3:12:00 PM

**Client Sample ID:** 02-OB-001-30.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	6/6/2019 5:09:37 PM
cis-1,2-Dichloroethene	0.245	0.203	D	mg/Kg-dry	10	6/6/2019 5:09:37 PM
Trichloroethene (TCE)	ND	0.203	D	mg/Kg-dry	10	6/6/2019 5:09:37 PM
Tetrachloroethene (PCE)	ND	0.253	D	mg/Kg-dry	10	6/6/2019 5:09:37 PM
Surr: Dibromofluoromethane	96.5	56.5 - 129	D	%Rec	10	6/6/2019 5:09:37 PM
Surr: Toluene-d8	96.6	64.5 - 151	D	%Rec	10	6/6/2019 5:09:37 PM
Surr: 1-Bromo-4-fluorobenzene	99.0	54.8 - 168	D	%Rec	10	6/6/2019 5:09:37 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	11.3	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-018

**Collection Date:** 6/5/2019 3:14:00 PM

**Client Sample ID:** 02-OB-001-29.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.283	D	mg/Kg-dry	10	6/6/2019 6:09:53 PM
cis-1,2-Dichloroethene	ND	0.227	D	mg/Kg-dry	10	6/6/2019 6:09:53 PM
Trichloroethene (TCE)	ND	0.227	D	mg/Kg-dry	10	6/6/2019 6:09:53 PM
Tetrachloroethene (PCE)	ND	0.283	D	mg/Kg-dry	10	6/6/2019 6:09:53 PM
Surr: Dibromofluoromethane	93.9	56.5 - 129	D	%Rec	10	6/6/2019 6:09:53 PM
Surr: Toluene-d8	95.3	64.5 - 151	D	%Rec	10	6/6/2019 6:09:53 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	54.8 - 168	D	%Rec	10	6/6/2019 6:09:53 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	13.3	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-019

**Collection Date:** 6/5/2019 2:45:00 PM

**Client Sample ID:** 02-OB-002-30.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.260	D	mg/Kg-dry	10	6/6/2019 6:40:02 PM
cis-1,2-Dichloroethene	0.231	0.208	D	mg/Kg-dry	10	6/6/2019 6:40:02 PM
Trichloroethene (TCE)	ND	0.208	D	mg/Kg-dry	10	6/6/2019 6:40:02 PM
Tetrachloroethene (PCE)	0.403	0.260	D	mg/Kg-dry	10	6/6/2019 6:40:02 PM
Surr: Dibromofluoromethane	97.5	56.5 - 129	D	%Rec	10	6/6/2019 6:40:02 PM
Surr: Toluene-d8	96.6	64.5 - 151	D	%Rec	10	6/6/2019 6:40:02 PM
Surr: 1-Bromo-4-fluorobenzene	99.0	54.8 - 168	D	%Rec	10	6/6/2019 6:40:02 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	16.4	0.500		wt%	1	6/6/2019 8:18:05 AM
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**Lab ID:** 1906050-020

**Collection Date:** 6/5/2019 2:48:00 PM

**Client Sample ID:** 02-OB-002-29.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.303	D	mg/Kg-dry	10	6/6/2019 7:10:10 PM
cis-1,2-Dichloroethene	0.157	0.242	JD	mg/Kg-dry	10	6/6/2019 7:10:10 PM
Trichloroethene (TCE)	ND	0.242	D	mg/Kg-dry	10	6/6/2019 7:10:10 PM
Tetrachloroethene (PCE)	0.355	0.303	D	mg/Kg-dry	10	6/6/2019 7:10:10 PM
Surr: Dibromofluoromethane	95.1	56.5 - 129	D	%Rec	10	6/6/2019 7:10:10 PM
Surr: Toluene-d8	94.6	64.5 - 151	D	%Rec	10	6/6/2019 7:10:10 PM
Surr: 1-Bromo-4-fluorobenzene	97.3	54.8 - 168	D	%Rec	10	6/6/2019 7:10:10 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51896

Analyst: CJ

Percent Moisture	14.7	0.500		wt%	1	6/6/2019 8:18:05 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-021

**Collection Date:** 6/5/2019 2:22:00 PM

**Client Sample ID:** 02-OB-003-30.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	6/6/2019 7:40:17 PM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	6/6/2019 7:40:17 PM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	6/6/2019 7:40:17 PM
Tetrachloroethene (PCE)	0.191	0.253	JD	mg/Kg-dry	10	6/6/2019 7:40:17 PM
Surr: Dibromofluoromethane	95.8	56.5 - 129	D	%Rec	10	6/6/2019 7:40:17 PM
Surr: Toluene-d8	96.3	64.5 - 151	D	%Rec	10	6/6/2019 7:40:17 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	54.8 - 168	D	%Rec	10	6/6/2019 7:40:17 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	12.7	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Lab ID:** 1906050-022

**Collection Date:** 6/5/2019 2:26:00 PM

**Client Sample ID:** 02-OB-003-29.5

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.279	D	mg/Kg-dry	10	6/6/2019 8:10:24 PM
cis-1,2-Dichloroethene	ND	0.223	D	mg/Kg-dry	10	6/6/2019 8:10:24 PM
Trichloroethene (TCE)	ND	0.223	D	mg/Kg-dry	10	6/6/2019 8:10:24 PM
Tetrachloroethene (PCE)	0.254	0.279	JD	mg/Kg-dry	10	6/6/2019 8:10:24 PM
Surr: Dibromofluoromethane	96.2	56.5 - 129	D	%Rec	10	6/6/2019 8:10:24 PM
Surr: Toluene-d8	95.7	64.5 - 151	D	%Rec	10	6/6/2019 8:10:24 PM
Surr: 1-Bromo-4-fluorobenzene	98.8	54.8 - 168	D	%Rec	10	6/6/2019 8:10:24 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	14.0	0.500		wt%	1	6/6/2019 8:32:23 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906050-023

**Collection Date:** 6/5/2019 2:49:00 PM

**Client Sample ID:** B-944-29

**Matrix:** Soil

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.283	D	mg/Kg-dry	10	6/6/2019 8:40:31 PM
cis-1,2-Dichloroethene	ND	0.227	D	mg/Kg-dry	10	6/6/2019 8:40:31 PM
Trichloroethene (TCE)	ND	0.227	D	mg/Kg-dry	10	6/6/2019 8:40:31 PM
Tetrachloroethene (PCE)	0.159	0.283	DJ	mg/Kg-dry	10	6/6/2019 8:40:31 PM
Surr: Dibromofluoromethane	95.2	56.5 - 129	D	%Rec	10	6/6/2019 8:40:31 PM
Surr: Toluene-d8	94.4	64.5 - 151	D	%Rec	10	6/6/2019 8:40:31 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	54.8 - 168	D	%Rec	10	6/6/2019 8:40:31 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	13.2	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Work Order:** 1906050  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>LCS-24816</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/5/2019</b>	RunNo: <b>51895</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>24816</b>		Analysis Date: <b>6/5/2019</b>	SeqNo: <b>1024143</b>							
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	1.00	0.0200	1.000	0	100	71.3	135				
Trichloroethene (TCE)	1.08	0.0200	1.000	0	108	65.5	137				
Tetrachloroethene (PCE)	1.01	0.0250	1.000	0	101	52.7	150				
Surr: Dibromofluoromethane	1.28		1.250		102	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.1	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		102	54.8	168				

Sample ID <b>MB-24816</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/5/2019</b>	RunNo: <b>51895</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>24816</b>		Analysis Date: <b>6/5/2019</b>	SeqNo: <b>1024144</b>							
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		100	56.5	129				
Surr: Toluene-d8	1.21		1.250		97.0	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.32		1.250		106	54.8	168				

Sample ID <b>1906039-002BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/5/2019</b>	RunNo: <b>51895</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24816</b>		Analysis Date: <b>6/5/2019</b>	SeqNo: <b>1024132</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0241						0	0	30	
cis-1,2-Dichloroethene	ND	0.0193						0	0	30	
Trichloroethene (TCE)	ND	0.0193						0	0	30	
Tetrachloroethene (PCE)	ND	0.0241						0	0	30	
Surr: Dibromofluoromethane	1.20		1.206		99.8	56.5	129		0		
Surr: Toluene-d8	1.12		1.206		92.5	64.5	151		0		

Work Order: 1906050  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID <b>1906039-002BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>6/5/2019</b>	RunNo: <b>51895</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>24816</b>				Analysis Date: <b>6/5/2019</b>	SeqNo: <b>1024132</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene      1.20      1.206      99.6      54.8      168      0

Sample ID <b>1906038-003BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>6/5/2019</b>	RunNo: <b>51895</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>24816</b>				Analysis Date: <b>6/5/2019</b>	SeqNo: <b>1024120</b>					
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	0.190						0	0	30	D
Trichloroethene (TCE)	ND	0.190						0	0	30	D
Tetrachloroethene (PCE)	ND	0.238						0	0	30	D
Surr: Dibromofluoromethane	11.6		11.88		97.9	56.5	129		0		D
Surr: Toluene-d8	11.1		11.88		93.1	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	9.98		11.88		84.0	54.8	168		0		D

Sample ID <b>1906038-014BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>6/5/2019</b>	RunNo: <b>51895</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>24816</b>				Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024128</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	7.41	0.217	8.676	0	85.4	43.6	150				D
cis-1,2-Dichloroethene	8.51	0.174	8.676	0.1425	96.5	58.6	136				D
Trichloroethene (TCE)	7.53	0.174	8.676	0	86.7	61.6	147				D
Tetrachloroethene (PCE)	8.32	0.217	8.676	0.2340	93.2	35.6	158				D
Surr: Dibromofluoromethane	11.3		10.85		104	56.5	129				D
Surr: Toluene-d8	10.2		10.85		94.1	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	10.7		10.85		98.4	54.8	168				D

Work Order: 1906050  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID	1906038-014BMSD	SampType:	MSD	Units:	mg/Kg-dry	Prep Date:	6/5/2019	RunNo:	51895		
Client ID:	BATCH	Batch ID:	24816	Analysis Date:	6/6/2019	SeqNo:	1024129				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	8.30	0.217	8.676	0	95.7	43.6	150	7.414	11.3	30	D
cis-1,2-Dichloroethene	9.26	0.174	8.676	0.1425	105	58.6	136	8.515	8.35	30	D
Trichloroethene (TCE)	9.62	0.174	8.676	0	111	61.6	147	7.527	24.5	30	D
Tetrachloroethene (PCE)	9.02	0.217	8.676	0.2340	101	35.6	158	8.320	8.10	30	D
Surr: Dibromofluoromethane	11.2		10.85		103	56.5	129		0		D
Surr: Toluene-d8	10.1		10.85		93.1	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.7		10.85		98.9	54.8	168		0		D

Sample ID	LCS-24818	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/6/2019	RunNo:	51913		
Client ID:	LCSS	Batch ID:	24818	Analysis Date:	6/6/2019	SeqNo:	1024561				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.935	0.0250	1.000	0	93.5	43.4	151				
cis-1,2-Dichloroethene	0.981	0.0200	1.000	0	98.1	71.3	135				
Trichloroethene (TCE)	0.970	0.0200	1.000	0	97.0	65.5	137				
Tetrachloroethene (PCE)	0.988	0.0250	1.000	0	98.8	52.7	150				
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.1	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		104	54.8	168				

Sample ID	LCSD-24818	SampType:	LCSD	Units:	mg/Kg	Prep Date:	6/6/2019	RunNo:	51913		
Client ID:	LCSS02	Batch ID:	24818	Analysis Date:	6/6/2019	SeqNo:	1024562				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.909	0.0250	1.000	0	90.9	43.4	151	0.9352	2.83	20	
cis-1,2-Dichloroethene	0.967	0.0200	1.000	0	96.7	71.6	123	0.9812	1.44	20	
Trichloroethene (TCE)	0.971	0.0200	1.000	0	97.1	65.5	137	0.9699	0.128	20	
Tetrachloroethene (PCE)	0.978	0.0250	1.000	0	97.8	52.7	150	0.9885	1.05	20	
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129		0		
Surr: Toluene-d8	1.23		1.250		98.4	64.5	151		0		

**Work Order:** 1906050  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>LCSD-24818</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>			Prep Date: <b>6/6/2019</b>	RunNo: <b>51913</b>					
Client ID: <b>LCSS02</b>	Batch ID: <b>24818</b>				Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024562</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	54.8	168		0		
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Sample ID <b>MB-24818</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>6/6/2019</b>	RunNo: <b>51913</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>24818</b>				Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024563</b>					
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		95.5	56.5	129				
Surr: Toluene-d8	1.20		1.250		96.1	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.22		1.250		98.0	54.8	168				

Sample ID <b>1906050-008BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>6/6/2019</b>	RunNo: <b>51913</b>					
Client ID: <b>02-OB-103-29.5</b>	Batch ID: <b>24818</b>				Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024551</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.537						0	0	30	D
cis-1,2-Dichloroethene	5.15	0.429						4.298	18.0	30	D
Trichloroethene (TCE)	1.26	0.429						1.062	17.0	30	D
Tetrachloroethene (PCE)	3.99	0.537						3.590	10.6	30	D
Surr: Dibromofluoromethane	26.0		26.83		96.9	56.5	129		0		D
Surr: Toluene-d8	26.1		26.83		97.4	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	27.0		26.83		101	54.8	168		0		D

**Work Order:** 1906050  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.253						0	0	30	D
cis-1,2-Dichloroethene	0.271	0.203						0.2451	10.1	30	D
Trichloroethene (TCE)	ND	0.203						0	0	30	D
Tetrachloroethene (PCE)	ND	0.253						0	0	30	D
Surr: Dibromofluoromethane	12.1		12.66		95.3	56.5	129		0		D
Surr: Toluene-d8	12.0		12.66		94.7	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.4		12.66		98.3	54.8	168		0		D

**Work Order:** 1906050  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID <b>1906050-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>6/6/2019</b>	RunNo: <b>51896</b>					
Client ID: <b>02-OB-101-30.5</b>	Batch ID: <b>R51896</b>				Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024148</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	11.8	0.500				11.72	0.896	20
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Sample ID <b>1906050-016ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>6/6/2019</b>	RunNo: <b>51896</b>					
Client ID: <b>02-OB-000-29.5</b>	Batch ID: <b>R51896</b>				Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024162</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	10.7	0.500				11.06	2.84	20
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Sample ID <b>1906051-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>6/6/2019</b>	RunNo: <b>51897</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>R51897</b>				Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024182</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	13.8	0.500				14.65	6.01	20
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Sample ID <b>1906051-012ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>6/6/2019</b>	RunNo: <b>51897</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>R51897</b>				Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024193</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	13.5	0.500				14.22	5.02	20
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Client Name: **PES**

 Work Order Number: **1906050**

 Logged by: **Clare Griggs**

 Date Received: **6/5/2019 4:25:00 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
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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	8.4
Sample	7.6

\* 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: 6/5/19 Page: 1 of 3  
Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: RTM/KSZ

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@PESENV.COM

Laboratory Project No (Internal): 19A16050

Special Remarks: ASAP TAT - EARLIEST POSSIBLE

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 (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 02-08-100-30.S	6/5/19	1446	S	X													
2 02-08-100-29.S		1500															
3 02-08-101-30.S		1513															
4 02-08-101-29.S		1516															
5 02-08-102-30.S		1520															
6 02-08-102-29.S		1523															
7 02-08-103-30.S		1427															
8 02-08-103-29.S		1431															
9 02-08-104-30.S		1412															
10 02-08-104-29.S		145															

\*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
<u>RTM/KSZ</u>	<u>6/5/19 1625</u>	<u>[Signature]</u>	<u>6-5-19 1625</u>
Relinquished	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>6/5/19 1625</u>	<u>[Signature]</u>	<u>6-5-19 1625</u>

Turn-around Time:

- Standard
- 3 Day
- 2 Day
- Next Day ASAP

Same Day \_\_\_\_\_ (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: 6/5/19 Page: 2 of 3

Project Name: AMERICAN LINEN

Project No: \_\_\_\_\_

Collected by: \_\_\_\_\_

Location: \_\_\_\_\_

Report To (PM): \_\_\_\_\_

PM Email: \_\_\_\_\_

Laboratory Project No (Internal): 1900050

Special Remarks:

ASAP TAT - EARLIEST POSSIBLE

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

Client: PES ENVIRONMENTAL

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

SEE PG 1

SEE PG 2

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 02-08-105 -30.5	6/5/19	1356	S														
2 02-08-105 -29.5		1358															
3 02-08-106-30.5		1331															
4 02-08-106-29.5		1334															
5 02-08-000 -30.5		1349															
6 02-08-000-29.5		1353															
7 02-08-001-30.5		1512															
8 02-08-001-29.5		1514															
9 02-08-002-30.5		1445															
10 02-08-002-29.5		1448															

\*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): MTCAS 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 Sr Ss Sn 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 RTM Date/Time 6/5/19 1625

Received Richard Struts Date/Time 6-5-19 1625

Relinquished RTM Date/Time 6/5/19 1625

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day ASAP  
 Same Day \_\_\_\_\_ (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: 6/5/19 Page: 3 of 3

Project Name: AMERICAN LINEN

Project No: SEE PG 2

Collected by: SEE PG 2

Location: 2

Report To (PM): SEE PG 2

PM Email: SEE PG 2

Laboratory Project No (Internal): 1900050

Special Remarks:

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											Comments											
				VOCS (EPA 8260 / 624)	GV/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)***	ED8 (8011)									
102-08-003-30.5	6/5/19	1422	S	X																						
202-08-003-29.5		1426		X																						
3 B-944-29.5 (PM)		1449	X	X																					ASAP THAT EARLIEST POSSIBLE	
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 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  
X  
Date/Time: 6/5/19 1625

Received  
X  
Date/Time: 6-5-19 1625

Relinquished  
X  
Date/Time: 6-5-19 1625

Received  
X  
Date/Time: 6-5-19 1625

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day ASAP  
 Same Day (specify) \_\_\_\_\_



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: 1906051**

June 07, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 22 sample(s) on 6/5/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**  
Karsten Springstead  
Kim Vik



Date: 06/07/2019

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906051

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906051-001	02-29-100-28	06/05/2019 3:03 PM	06/05/2019 4:25 PM
1906051-002	02-29-101-28	06/05/2019 3:19 PM	06/05/2019 4:25 PM
1906051-003	02-29-102-28	06/05/2019 3:26 PM	06/05/2019 4:25 PM
1906051-004	02-29-103-28	06/05/2019 2:34 PM	06/05/2019 4:25 PM
1906051-005	02-29-104-28	06/05/2019 2:17 PM	06/05/2019 4:25 PM
1906051-006	02-29-105-28	06/05/2019 2:02 PM	06/05/2019 4:25 PM
1906051-007	02-29-106-28	06/05/2019 1:40 PM	06/05/2019 4:25 PM
1906051-008	02-27-100-26	06/05/2019 3:06 PM	06/05/2019 4:25 PM
1906051-009	02-25-100-24	06/05/2019 3:10 PM	06/05/2019 4:25 PM
1906051-010	02-27-101-26	06/05/2019 3:22 PM	06/05/2019 4:25 PM
1906051-011	02-25-101-24	06/05/2019 3:25 PM	06/05/2019 4:25 PM
1906051-012	02-27-102-26	06/05/2019 3:30 PM	06/05/2019 4:25 PM
1906051-013	02-25-102-24	06/05/2019 3:28 PM	06/05/2019 4:25 PM
1906051-014	02-27-103-26	06/05/2019 2:38 PM	06/05/2019 4:25 PM
1906051-015	02-25-103-24	06/05/2019 2:42 PM	06/05/2019 4:25 PM
1906051-016	02-27-104-26	06/05/2019 2:20 PM	06/05/2019 4:25 PM
1906051-017	02-25-104-24	06/05/2019 2:24 PM	06/05/2019 4:25 PM
1906051-018	02-27-105-26	06/05/2019 2:06 PM	06/05/2019 4:25 PM
1906051-019	02-25-105-24	06/05/2019 2:09 PM	06/05/2019 4:25 PM
1906051-020	02-27-106-26	06/05/2019 1:43 PM	06/05/2019 4:25 PM
1906051-021	02-25-106-24	06/05/2019 1:46 PM	06/05/2019 4:25 PM
1906051-024	B-945-24	06/05/2019 3:40 PM	06/05/2019 4:25 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:** 6/5/2019 3:03:00 PM

**Project:** American Linen

**Lab ID:** 1906051-001

**Matrix:** Soil

**Client Sample ID:** 02-29-100-28

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

Batch ID: 24818

Analyst: CR

Vinyl chloride	ND	0.241	D	mg/Kg-dry	10	6/6/2019 9:10:40 PM
cis-1,2-Dichloroethene	0.632	0.192	D	mg/Kg-dry	10	6/6/2019 9:10:40 PM
Trichloroethene (TCE)	0.105	0.192	DJ	mg/Kg-dry	10	6/6/2019 9:10:40 PM
Tetrachloroethene (PCE)	0.325	0.241	D	mg/Kg-dry	10	6/6/2019 9:10:40 PM
Surr: Dibromofluoromethane	97.8	56.5 - 129	D	%Rec	10	6/6/2019 9:10:40 PM
Surr: Toluene-d8	95.9	64.5 - 151	D	%Rec	10	6/6/2019 9:10:40 PM
Surr: 1-Bromo-4-fluorobenzene	97.9	54.8 - 168	D	%Rec	10	6/6/2019 9:10:40 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	13.1	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906051-002  
**Client Sample ID:** 02-29-101-28

**Collection Date:** 6/5/2019 3:19:00 PM  
**Matrix:** Soil

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

Batch ID: 24818      Analyst: CR

Vinyl chloride	ND	0.260	D	mg/Kg-dry	10	6/6/2019 9:40:47 PM
cis-1,2-Dichloroethene	0.120	0.208	DJ	mg/Kg-dry	10	6/6/2019 9:40:47 PM
Trichloroethene (TCE)	ND	0.208	D	mg/Kg-dry	10	6/6/2019 9:40:47 PM
Tetrachloroethene (PCE)	ND	0.260	D	mg/Kg-dry	10	6/6/2019 9:40:47 PM
Surr: Dibromofluoromethane	96.9	56.5 - 129	D	%Rec	10	6/6/2019 9:40:47 PM
Surr: Toluene-d8	96.6	64.5 - 151	D	%Rec	10	6/6/2019 9:40:47 PM
Surr: 1-Bromo-4-fluorobenzene	98.2	54.8 - 168	D	%Rec	10	6/6/2019 9:40:47 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897      Analyst: ZR

Percent Moisture	14.7	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 3:26:00 PM

**Project:** American Linen

**Lab ID:** 1906051-003

**Matrix:** Soil

**Client Sample ID:** 02-29-102-28

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.268	D	mg/Kg-dry	10	6/7/2019 12:07:12 AM
cis-1,2-Dichloroethene	0.669	0.214	D	mg/Kg-dry	10	6/7/2019 12:07:12 AM
Trichloroethene (TCE)	ND	0.214	D	mg/Kg-dry	10	6/7/2019 12:07:12 AM
Tetrachloroethene (PCE)	0.222	0.268	DJ	mg/Kg-dry	10	6/7/2019 12:07:12 AM
Surr: Dibromofluoromethane	99.8	56.5 - 129	D	%Rec	10	6/7/2019 12:07:12 AM
Surr: Toluene-d8	81.8	64.5 - 151	D	%Rec	10	6/7/2019 12:07:12 AM
Surr: 1-Bromo-4-fluorobenzene	94.7	54.8 - 168	D	%Rec	10	6/7/2019 12:07:12 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	15.1	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 2:34:00 PM

**Project:** American Linen

**Lab ID:** 1906051-004

**Matrix:** Soil

**Client Sample ID:** 02-29-103-28

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.298	D	mg/Kg-dry	10	6/6/2019 11:13:41 AM
cis-1,2-Dichloroethene	0.736	0.238	D	mg/Kg-dry	10	6/6/2019 11:13:41 AM
Trichloroethene (TCE)	ND	0.238	D	mg/Kg-dry	10	6/6/2019 11:13:41 AM
Tetrachloroethene (PCE)	ND	0.298	D	mg/Kg-dry	10	6/6/2019 11:13:41 AM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	6/6/2019 11:13:41 AM
Surr: Toluene-d8	105	64.5 - 151	D	%Rec	10	6/6/2019 11:13:41 AM
Surr: 1-Bromo-4-fluorobenzene	95.2	54.8 - 168	D	%Rec	10	6/6/2019 11:13:41 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	16.7	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 2:17:00 PM

**Project:** American Linen

**Lab ID:** 1906051-005

**Matrix:** Soil

**Client Sample ID:** 02-29-104-28

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.246	D	mg/Kg-dry	10	6/6/2019 11:44:40 AM
cis-1,2-Dichloroethene	ND	0.197	D	mg/Kg-dry	10	6/6/2019 11:44:40 AM
Trichloroethene (TCE)	ND	0.197	D	mg/Kg-dry	10	6/6/2019 11:44:40 AM
Tetrachloroethene (PCE)	ND	0.246	D	mg/Kg-dry	10	6/6/2019 11:44:40 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/6/2019 11:44:40 AM
Surr: Toluene-d8	111	64.5 - 151	D	%Rec	10	6/6/2019 11:44:40 AM
Surr: 1-Bromo-4-fluorobenzene	94.0	54.8 - 168	D	%Rec	10	6/6/2019 11:44:40 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	19.4	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 2:02:00 PM

**Project:** American Linen

**Lab ID:** 1906051-006

**Matrix:** Soil

**Client Sample ID:** 02-29-105-28

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.239	D	mg/Kg-dry	10	6/6/2019 12:46:27 PM
cis-1,2-Dichloroethene	ND	0.191	D	mg/Kg-dry	10	6/6/2019 12:46:27 PM
Trichloroethene (TCE)	ND	0.191	D	mg/Kg-dry	10	6/6/2019 12:46:27 PM
Tetrachloroethene (PCE)	ND	0.239	D	mg/Kg-dry	10	6/6/2019 12:46:27 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/6/2019 12:46:27 PM
Surr: Toluene-d8	81.8	64.5 - 151	D	%Rec	10	6/6/2019 12:46:27 PM
Surr: 1-Bromo-4-fluorobenzene	94.7	54.8 - 168	D	%Rec	10	6/6/2019 12:46:27 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	13.5	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 1:40:00 PM

**Project:** American Linen

**Lab ID:** 1906051-007

**Matrix:** Soil

**Client Sample ID:** 02-29-106-28

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.245	D	mg/Kg-dry	10	6/6/2019 1:17:23 PM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	6/6/2019 1:17:23 PM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	6/6/2019 1:17:23 PM
Tetrachloroethene (PCE)	ND	0.245	D	mg/Kg-dry	10	6/6/2019 1:17:23 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/6/2019 1:17:23 PM
Surr: Toluene-d8	107	64.5 - 151	D	%Rec	10	6/6/2019 1:17:23 PM
Surr: 1-Bromo-4-fluorobenzene	82.5	54.8 - 168	D	%Rec	10	6/6/2019 1:17:23 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	12.7	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 3:06:00 PM

**Project:** American Linen

**Lab ID:** 1906051-008

**Matrix:** Soil

**Client Sample ID:** 02-27-100-26

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.212	D	mg/Kg-dry	10	6/6/2019 1:48:22 PM
cis-1,2-Dichloroethene	0.555	0.169	D	mg/Kg-dry	10	6/6/2019 1:48:22 PM
Trichloroethene (TCE)	0.336	0.169	D	mg/Kg-dry	10	6/6/2019 1:48:22 PM
Tetrachloroethene (PCE)	1.77	0.212	D	mg/Kg-dry	10	6/6/2019 1:48:22 PM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	6/6/2019 1:48:22 PM
Surr: Toluene-d8	99.4	64.5 - 151	D	%Rec	10	6/6/2019 1:48:22 PM
Surr: 1-Bromo-4-fluorobenzene	83.3	54.8 - 168	D	%Rec	10	6/6/2019 1:48:22 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	9.38	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906051-009  
**Client Sample ID:** 02-25-100-24

**Collection Date:** 6/5/2019 3:10:00 PM  
**Matrix:** Soil

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

Batch ID: 24819 Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	6/6/2019 2:19:18 PM
cis-1,2-Dichloroethene	ND	0.186	D	mg/Kg-dry	10	6/6/2019 2:19:18 PM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	6/6/2019 2:19:18 PM
Tetrachloroethene (PCE)	1.78	0.233	D	mg/Kg-dry	10	6/6/2019 2:19:18 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/6/2019 2:19:18 PM
Surr: Toluene-d8	90.4	64.5 - 151	D	%Rec	10	6/6/2019 2:19:18 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	6/6/2019 2:19:18 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897 Analyst: ZR

Percent Moisture	15.5	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 3:22:00 PM

**Project:** American Linen

**Lab ID:** 1906051-010

**Matrix:** Soil

**Client Sample ID:** 02-27-101-26

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.224	D	mg/Kg-dry	10	6/6/2019 2:50:18 PM
cis-1,2-Dichloroethene	0.714	0.179	D	mg/Kg-dry	10	6/6/2019 2:50:18 PM
Trichloroethene (TCE)	0.209	0.179	D	mg/Kg-dry	10	6/6/2019 2:50:18 PM
Tetrachloroethene (PCE)	2.58	0.224	D	mg/Kg-dry	10	6/6/2019 2:50:18 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	6/6/2019 2:50:18 PM
Surr: Toluene-d8	113	64.5 - 151	D	%Rec	10	6/6/2019 2:50:18 PM
Surr: 1-Bromo-4-fluorobenzene	99.4	54.8 - 168	D	%Rec	10	6/6/2019 2:50:18 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	12.3	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906051-011  
**Client Sample ID:** 02-25-101-24

**Collection Date:** 6/5/2019 3:25:00 PM  
**Matrix:** Soil

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

Batch ID: 24819      Analyst: KT

Vinyl chloride	ND	0.199	D	mg/Kg-dry	10	6/6/2019 3:21:15 PM
cis-1,2-Dichloroethene	0.407	0.160	D	mg/Kg-dry	10	6/6/2019 3:21:15 PM
Trichloroethene (TCE)	0.121	0.160	DJ	mg/Kg-dry	10	6/6/2019 3:21:15 PM
Tetrachloroethene (PCE)	2.92	0.199	D	mg/Kg-dry	10	6/6/2019 3:21:15 PM
Surr: Dibromofluoromethane	99.7	56.5 - 129	D	%Rec	10	6/6/2019 3:21:15 PM
Surr: Toluene-d8	90.7	64.5 - 151	D	%Rec	10	6/6/2019 3:21:15 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/6/2019 3:21:15 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897      Analyst: ZR

Percent Moisture	15.0	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906051-012  
**Client Sample ID:** 02-27-102-26

**Collection Date:** 6/5/2019 3:30:00 PM  
**Matrix:** Soil

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

Batch ID: 24819 Analyst: KT

Vinyl chloride	ND	0.239	D	mg/Kg-dry	10	6/6/2019 3:52:12 PM
cis-1,2-Dichloroethene	ND	0.191	D	mg/Kg-dry	10	6/6/2019 3:52:12 PM
Trichloroethene (TCE)	ND	0.191	D	mg/Kg-dry	10	6/6/2019 3:52:12 PM
Tetrachloroethene (PCE)	ND	0.239	D	mg/Kg-dry	10	6/6/2019 3:52:12 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/6/2019 3:52:12 PM
Surr: Toluene-d8	81.2	64.5 - 151	D	%Rec	10	6/6/2019 3:52:12 PM
Surr: 1-Bromo-4-fluorobenzene	92.1	54.8 - 168	D	%Rec	10	6/6/2019 3:52:12 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897 Analyst: ZR

Percent Moisture	14.2	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 3:28:00 PM

**Project:** American Linen

**Lab ID:** 1906051-013

**Matrix:** Soil

**Client Sample ID:** 02-25-102-24

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.202	D	mg/Kg-dry	10	6/6/2019 4:23:15 PM
cis-1,2-Dichloroethene	0.0988	0.162	DJ	mg/Kg-dry	10	6/6/2019 4:23:15 PM
Trichloroethene (TCE)	ND	0.162	D	mg/Kg-dry	10	6/6/2019 4:23:15 PM
Tetrachloroethene (PCE)	0.0970	0.202	DJ	mg/Kg-dry	10	6/6/2019 4:23:15 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/6/2019 4:23:15 PM
Surr: Toluene-d8	80.5	64.5 - 151	D	%Rec	10	6/6/2019 4:23:15 PM
Surr: 1-Bromo-4-fluorobenzene	95.3	54.8 - 168	D	%Rec	10	6/6/2019 4:23:15 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	12.1	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 2:38:00 PM

**Project:** American Linen

**Lab ID:** 1906051-014

**Matrix:** Soil

**Client Sample ID:** 02-27-103-26

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.280	D	mg/Kg-dry	10	6/6/2019 4:54:18 PM
cis-1,2-Dichloroethene	0.606	0.224	D	mg/Kg-dry	10	6/6/2019 4:54:18 PM
Trichloroethene (TCE)	ND	0.224	D	mg/Kg-dry	10	6/6/2019 4:54:18 PM
Tetrachloroethene (PCE)	0.142	0.280	DJ	mg/Kg-dry	10	6/6/2019 4:54:18 PM
Surr: Dibromofluoromethane	99.1	56.5 - 129	D	%Rec	10	6/6/2019 4:54:18 PM
Surr: Toluene-d8	82.7	64.5 - 151	D	%Rec	10	6/6/2019 4:54:18 PM
Surr: 1-Bromo-4-fluorobenzene	93.7	54.8 - 168	D	%Rec	10	6/6/2019 4:54:18 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	17.1	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 2:42:00 PM

**Project:** American Linen

**Lab ID:** 1906051-015

**Matrix:** Soil

**Client Sample ID:** 02-25-103-24

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.266	D	mg/Kg-dry	10	6/6/2019 5:25:19 PM
cis-1,2-Dichloroethene	ND	0.212	D	mg/Kg-dry	10	6/6/2019 5:25:19 PM
Trichloroethene (TCE)	ND	0.212	D	mg/Kg-dry	10	6/6/2019 5:25:19 PM
Tetrachloroethene (PCE)	ND	0.266	D	mg/Kg-dry	10	6/6/2019 5:25:19 PM
Surr: Dibromofluoromethane	99.5	56.5 - 129	D	%Rec	10	6/6/2019 5:25:19 PM
Surr: Toluene-d8	81.3	64.5 - 151	D	%Rec	10	6/6/2019 5:25:19 PM
Surr: 1-Bromo-4-fluorobenzene	95.2	54.8 - 168	D	%Rec	10	6/6/2019 5:25:19 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897

Analyst: ZR

Percent Moisture	14.2	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906051-016  
**Client Sample ID:** 02-27-104-26

**Collection Date:** 6/5/2019 2:20:00 PM  
**Matrix:** Soil

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

Batch ID: 24819 Analyst: KT

Vinyl chloride	ND	0.288	D	mg/Kg-dry	10	6/6/2019 5:56:16 PM
cis-1,2-Dichloroethene	ND	0.230	D	mg/Kg-dry	10	6/6/2019 5:56:16 PM
Trichloroethene (TCE)	ND	0.230	D	mg/Kg-dry	10	6/6/2019 5:56:16 PM
Tetrachloroethene (PCE)	0.121	0.288	DJ	mg/Kg-dry	10	6/6/2019 5:56:16 PM
Surr: Dibromofluoromethane	99.6	56.5 - 129	D	%Rec	10	6/6/2019 5:56:16 PM
Surr: Toluene-d8	87.4	64.5 - 151	D	%Rec	10	6/6/2019 5:56:16 PM
Surr: 1-Bromo-4-fluorobenzene	93.7	54.8 - 168	D	%Rec	10	6/6/2019 5:56:16 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897 Analyst: ZR

Percent Moisture	13.7	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906051-017  
**Client Sample ID:** 02-25-104-24

**Collection Date:** 6/5/2019 2:24:00 PM  
**Matrix:** Soil

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

Batch ID: 24819      Analyst: KT

Vinyl chloride	ND	0.240	D	mg/Kg-dry	10	6/6/2019 6:27:06 PM
cis-1,2-Dichloroethene	ND	0.192	D	mg/Kg-dry	10	6/6/2019 6:27:06 PM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	6/6/2019 6:27:06 PM
Tetrachloroethene (PCE)	ND	0.240	D	mg/Kg-dry	10	6/6/2019 6:27:06 PM
Surr: Dibromofluoromethane	99.7	56.5 - 129	D	%Rec	10	6/6/2019 6:27:06 PM
Surr: Toluene-d8	89.9	64.5 - 151	D	%Rec	10	6/6/2019 6:27:06 PM
Surr: 1-Bromo-4-fluorobenzene	88.0	54.8 - 168	D	%Rec	10	6/6/2019 6:27:06 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51897      Analyst: ZR

Percent Moisture	13.4	0.500		wt%	1	6/6/2019 8:32:23 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906051-018  
**Client Sample ID:** 02-27-105-26

**Collection Date:** 6/5/2019 2:06:00 PM  
**Matrix:** Soil

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

Batch ID: 24819      Analyst: KT

Vinyl chloride	ND	0.263	D	mg/Kg-dry	10	6/6/2019 8:30:42 PM
cis-1,2-Dichloroethene	ND	0.210	D	mg/Kg-dry	10	6/6/2019 8:30:42 PM
Trichloroethene (TCE)	ND	0.210	D	mg/Kg-dry	10	6/6/2019 8:30:42 PM
Tetrachloroethene (PCE)	ND	0.263	D	mg/Kg-dry	10	6/6/2019 8:30:42 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/6/2019 8:30:42 PM
Surr: Toluene-d8	91.3	64.5 - 151	D	%Rec	10	6/6/2019 8:30:42 PM
Surr: 1-Bromo-4-fluorobenzene	84.3	54.8 - 168	D	%Rec	10	6/6/2019 8:30:42 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51898      Analyst: PA

Percent Moisture	13.8	0.500		wt%	1	6/6/2019 9:18:49 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906051-019  
**Client Sample ID:** 02-25-105-24

**Collection Date:** 6/5/2019 2:09:00 PM  
**Matrix:** Soil

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

Batch ID: 24819 Analyst: KT

Vinyl chloride	ND	0.216	D	mg/Kg-dry	10	6/6/2019 9:01:40 PM
cis-1,2-Dichloroethene	ND	0.173	D	mg/Kg-dry	10	6/6/2019 9:01:40 PM
Trichloroethene (TCE)	ND	0.173	D	mg/Kg-dry	10	6/6/2019 9:01:40 PM
Tetrachloroethene (PCE)	1.05	0.216	D	mg/Kg-dry	10	6/6/2019 9:01:40 PM
Surr: Dibromofluoromethane	97.5	56.5 - 129	D	%Rec	10	6/6/2019 9:01:40 PM
Surr: Toluene-d8	90.7	64.5 - 151	D	%Rec	10	6/6/2019 9:01:40 PM
Surr: 1-Bromo-4-fluorobenzene	91.5	54.8 - 168	D	%Rec	10	6/6/2019 9:01:40 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51898 Analyst: PA

Percent Moisture	11.8	0.500		wt%	1	6/6/2019 9:18:49 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 1:43:00 PM

**Project:** American Linen

**Lab ID:** 1906051-020

**Matrix:** Soil

**Client Sample ID:** 02-27-106-26

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.252	D	mg/Kg-dry	10	6/6/2019 9:32:30 PM
cis-1,2-Dichloroethene	0.148	0.202	DJ	mg/Kg-dry	10	6/6/2019 9:32:30 PM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	6/6/2019 9:32:30 PM
Tetrachloroethene (PCE)	0.313	0.252	D	mg/Kg-dry	10	6/6/2019 9:32:30 PM
Surr: Dibromofluoromethane	99.6	56.5 - 129	D	%Rec	10	6/6/2019 9:32:30 PM
Surr: Toluene-d8	91.2	64.5 - 151	D	%Rec	10	6/6/2019 9:32:30 PM
Surr: 1-Bromo-4-fluorobenzene	114	54.8 - 168	D	%Rec	10	6/6/2019 9:32:30 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51898

Analyst: PA

Percent Moisture	14.9	0.500		wt%	1	6/6/2019 9:18:49 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 1:46:00 PM

**Project:** American Linen

**Lab ID:** 1906051-021

**Matrix:** Soil

**Client Sample ID:** 02-25-106-24

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.214	D	mg/Kg-dry	10	6/6/2019 10:03:30 PM
cis-1,2-Dichloroethene	0.333	0.171	D	mg/Kg-dry	10	6/6/2019 10:03:30 PM
Trichloroethene (TCE)	0.101	0.171	DJ	mg/Kg-dry	10	6/6/2019 10:03:30 PM
Tetrachloroethene (PCE)	0.902	0.214	D	mg/Kg-dry	10	6/6/2019 10:03:30 PM
Surr: Dibromofluoromethane	95.2	56.5 - 129	D	%Rec	10	6/6/2019 10:03:30 PM
Surr: Toluene-d8	88.9	64.5 - 151	D	%Rec	10	6/6/2019 10:03:30 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/6/2019 10:03:30 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51898

Analyst: PA

Percent Moisture	11.1	0.500		wt%	1	6/6/2019 9:18:49 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/5/2019 3:40:00 PM

**Project:** American Linen

**Lab ID:** 1906051-024

**Matrix:** Soil

**Client Sample ID:** B-945-24

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

Batch ID: 24819

Analyst: KT

Vinyl chloride	ND	0.224	D	mg/Kg-dry	10	6/6/2019 10:34:22 PM
cis-1,2-Dichloroethene	0.109	0.179	DJ	mg/Kg-dry	10	6/6/2019 10:34:22 PM
Trichloroethene (TCE)	ND	0.179	D	mg/Kg-dry	10	6/6/2019 10:34:22 PM
Tetrachloroethene (PCE)	0.154	0.224	DJ	mg/Kg-dry	10	6/6/2019 10:34:22 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/6/2019 10:34:22 PM
Surr: Toluene-d8	82.4	64.5 - 151	D	%Rec	10	6/6/2019 10:34:22 PM
Surr: 1-Bromo-4-fluorobenzene	94.3	54.8 - 168	D	%Rec	10	6/6/2019 10:34:22 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R51898

Analyst: PA

Percent Moisture	11.8	0.500		wt%	1	6/6/2019 9:18:49 AM
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**Work Order:** 1906051  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-24818</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51913</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>24818</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024561</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.935	0.0250	1.000	0	93.5	43.4	151				
cis-1,2-Dichloroethene	0.981	0.0200	1.000	0	98.1	71.3	135				
Trichloroethene (TCE)	0.970	0.0200	1.000	0	97.0	65.5	137				
Tetrachloroethene (PCE)	0.988	0.0250	1.000	0	98.8	52.7	150				
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.1	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		104	54.8	168				

Sample ID: <b>LCSD-24818</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51913</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>24818</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024562</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.909	0.0250	1.000	0	90.9	43.4	151	0.9352	2.83	20	
cis-1,2-Dichloroethene	0.967	0.0200	1.000	0	96.7	71.6	123	0.9812	1.44	20	
Trichloroethene (TCE)	0.971	0.0200	1.000	0	97.1	65.5	137	0.9699	0.128	20	
Tetrachloroethene (PCE)	0.978	0.0250	1.000	0	97.8	52.7	150	0.9885	1.05	20	
Surr: Dibromofluoromethane	1.29		1.250		103	56.5	129		0		
Surr: Toluene-d8	1.23		1.250		98.4	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	54.8	168		0		

Sample ID: <b>LCS-24819</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51923</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>24819</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024653</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.24	0.0250	1.000	0	124	43.4	151				
cis-1,2-Dichloroethene	1.14	0.0200	1.000	0	114	71.3	135				
Trichloroethene (TCE)	1.28	0.0200	1.000	0	128	65.5	137				
Tetrachloroethene (PCE)	1.18	0.0250	1.000	0	118	52.7	150				
Surr: Dibromofluoromethane	1.36		1.250		109	56.5	129				
Surr: Toluene-d8	1.27		1.250		101	64.5	151				

**Work Order:** 1906051  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-24819</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51923</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>24819</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024653</b>							
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

Sample ID: <b>MB-24818</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51913</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>24818</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024563</b>							
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      95.5      56.5      129  
Surr: Toluene-d8      1.20      1.250      96.1      64.5      151  
Surr: 1-Bromo-4-fluorobenzene      1.22      1.250      98.0      54.8      168

Sample ID: <b>LCSD-24819</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51923</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>24819</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024654</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride      0.982      0.0250      1.000      0      98.2      43.4      151      1.245      23.6      20      R  
cis-1,2-Dichloroethene      1.05      0.0200      1.000      0      105      71.6      123      1.136      7.79      20  
Trichloroethene (TCE)      0.941      0.0200      1.000      0      94.1      65.5      137      1.275      30.2      20      R  
Tetrachloroethene (PCE)      0.986      0.0250      1.000      0      98.6      52.7      150      1.182      18.1      20  
Surr: Dibromofluoromethane      1.30      1.250      104      56.5      129      0  
Surr: Toluene-d8      1.16      1.250      92.7      64.5      151      0  
Surr: 1-Bromo-4-fluorobenzene      1.29      1.250      103      54.8      168      0

**NOTES:**

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

Work Order: 1906051  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>1906050-008BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>		Prep Date: <b>6/6/2019</b>	RunNo: <b>51913</b>						
Client ID: <b>BATCH</b>	Batch ID: <b>24818</b>			Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024551</b>						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.537						0	0	30	D
cis-1,2-Dichloroethene	5.15	0.429						4.298	18.0	30	D
Trichloroethene (TCE)	1.26	0.429						1.062	17.0	30	D
Tetrachloroethene (PCE)	3.99	0.537						3.590	10.6	30	D
Surr: Dibromofluoromethane	26.0		26.83		96.9	56.5	129		0		D
Surr: Toluene-d8	26.1		26.83		97.4	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	27.0		26.83		101	54.8	168		0		D

Sample ID: <b>MB-24819</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>		Prep Date: <b>6/6/2019</b>	RunNo: <b>51923</b>						
Client ID: <b>MBLKS</b>	Batch ID: <b>24819</b>			Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024655</b>						
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		99.4	56.5	129				
Surr: Toluene-d8	1.13		1.250		90.4	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.24		1.250		99.5	54.8	168				

Sample ID: <b>1906051-005BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>		Prep Date: <b>6/6/2019</b>	RunNo: <b>51923</b>						
Client ID: <b>02-29-104-28</b>	Batch ID: <b>24819</b>			Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024632</b>						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.246						0	0	30	D
cis-1,2-Dichloroethene	ND	0.197						0	0	30	D
Trichloroethene (TCE)	ND	0.197						0	0	30	D
Tetrachloroethene (PCE)	0.102	0.246						0	200	30	DJ
Surr: Dibromofluoromethane	12.3		12.30		100	56.5	129		0		D
Surr: Toluene-d8	13.4		12.30		109	64.5	151		0		D

**Work Order:** 1906051  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1906051-005BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51923</b>							
Client ID: <b>02-29-104-28</b>	Batch ID: <b>24819</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024632</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	11.3		12.30		92.0	54.8	168		0		D
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Sample ID: <b>1906050-017BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51913</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>24818</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024735</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.253						0	0	30	D
cis-1,2-Dichloroethene	0.271	0.203						0.2451	10.1	30	D
Trichloroethene (TCE)	ND	0.203						0	0	30	D
Tetrachloroethene (PCE)	ND	0.253						0	0	30	D
Surr: Dibromofluoromethane	12.1		12.66		95.3	56.5	129		0		D
Surr: Toluene-d8	12.0		12.66		94.7	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.4		12.66		98.3	54.8	168		0		D

Sample ID: <b>1906051-024BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51923</b>							
Client ID: <b>B-945-24</b>	Batch ID: <b>24819</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024650</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.224						0	0	30	D
cis-1,2-Dichloroethene	0.165	0.179						0.1091	41.0	30	DJ
Trichloroethene (TCE)	ND	0.179						0	0	30	D
Tetrachloroethene (PCE)	0.229	0.224						0.1538	39.4	30	D
Surr: Dibromofluoromethane	11.1		11.19		99.0	56.5	129		0		D
Surr: Toluene-d8	11.3		11.19		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.4		11.19		92.9	54.8	168		0		D

**Work Order:** 1906051  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1906051-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51897</b>							
Client ID: <b>02-29-101-28</b>	Batch ID: <b>R51897</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024182</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	13.8	0.500				14.65	6.01	20
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Sample ID: <b>1906051-012ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51897</b>							
Client ID: <b>02-27-102-26</b>	Batch ID: <b>R51897</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024193</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	13.5	0.500				14.22	5.02	20
------------------	------	-------	--	--	--	-------	------	----

Sample ID: <b>1906051-024ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/6/2019</b>	RunNo: <b>51898</b>							
Client ID: <b>B-945-24</b>	Batch ID: <b>R51898</b>		Analysis Date: <b>6/6/2019</b>	SeqNo: <b>1024206</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	12.9	0.500				11.77	9.21	20
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Client Name: **PES**

 Work Order Number: **1906051**

 Logged by: **Clare Griggs**

 Date Received: **6/5/2019 4:25:00 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
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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	8.4
Sample	7.6

\* 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: 6/5/19 Page: 2 of 3  
Project Name: AMERICAN LINEN

Laboratory Project No (internal): 1901051  
Special Remarks:

Client: PES ENVIRONMENTAL

Address: SEE PS 2

City, State, Zip: SEE PS 2

Telephone: SEE PS 2

Fax: SEE PS 2

Project No: SEE PS 2

Collected by: SEE PS 2

Location: SEE PS 2

Report To (PM): SEE PS 2

PM Email: SEE PS 2

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

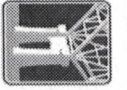
Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GW/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (C)***	EDB (8011)	Comments
1 02-25-101-24	6/5/19	1525	S K														48 HR TAT
2 02-27-182-26		1530															
3 02-25-182-24		1528															
4 02-27-103-24		1438															
5 02-25-103-24		1442															
6 02-27-104-26		1420															
7 02-25-184-24		1424															
8 02-27-105-26		1406															
9 02-25-185-24		1409															
10 02-27-106-26	6/5/19	1409	S K														

\*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 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: 6/5/19 1625  
 Received  Date/Time: 6-5-19 1625  
 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  
Tel: 206-352-3790  
Fax: 206-352-7178

## Chain of Custody Record & Laboratory Services Agreement

Date: 6/5/19 Page: 3 of 3  
Project Name: AMERICAN LINEN

Laboratory Project No (Internal): 19010051  
Special Remarks:

Client: PES ENVIRONMENTAL

Project No: SEE

Address:

City, State, Zip:

SEE PG 1

Collected by:

PG 1

Location:

Report To (PM):

Fax:

PM Email:

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
1 02-25-106-24	6/5/19	1409	S	X													
2 02-27-107-26		1343															
3 02-25-107-24		1346															
4 B-945-24		1540	X	X													
5																	
6																	
7																	
8																	
9																	
10																	

48 HR TAT

McLADGALIN  
6/5/19

\*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 Iodide Nitrate+Nitrite Fluoride Nitrate+Nitrite

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.

Reinquired: [Signature] Date/Time: 6/5/19 1625  
 Relinquished: [Signature] Date/Time: 6-5-19 1625



# Fremont

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

## Chain of Custody Record & Laboratory Services Agreement

Date: 6/5/19 Page: 1 of 3  
Project Name: AMERICAN LINEN

Laboratory Project No (Internal): 1900051  
Special Remarks:

Client: RES ENVIRONMENTAL  
Address: 1215 4th AVE  
City, State, Zip: SEATTLE WA 98161

Project No: 1413.001.05.402  
Collected by: RTM/KSZ  
Location: SEATTLE WA

Telephone: 206 529 3980  
Fax: 206 529 3985

Report To (PM): B. OVERAL  
PM Email: BONER@RESENV.COM

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DW)	SVOCs (EPA 8270 / 623)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals ** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Metals (IC) **	EDS (8011)	Comments	
1 02-29-100-28	6/5/19	1503	S															
2 02-29-101-28		1519	S															
3 02-29-102-28		1526	S															
4 02-29-103-28		1434	S															
5 02-29-104-28		1417	S															
6 02-29-105-28		1402	S															
7 02-29-106-28		1340	S															
8 02-29-100-24	6/5/19	1506	S															
9 02-25-100-24		1510	S															
10 02-27-101-26		1522	S															

\*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 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 [Signature] Date/Time 6/5/19 1625  
 Received [Signature] Date/Time 6-5-19 1625  
 Same Day  Next Day  2 Day  3 Day  Standard



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

### Chain of Custody Record & Laboratory Services Agreement

Date: 6/5/19 Page: 2 of: 3  
Project Name: AMERICAN LINEN

Laboratory Project No (Internal): 1900051  
Special Remarks:

Client: FES ENVIRONMENTAL

Address: SEE PG 2

City, State, Zip: SEE PG 2

Telephone: SEE PG 2

Fax: SEE PG 2

Project No: SEE PG 2  
Collected by: SEE PG 2  
Location: SEE PG 2  
Report to (PMI): SEE PG 2  
PM Email: SEE PG 2

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Comments
1 02-25-101-24	6/5/19	1525	S	48 HR TAT
2 02-27-182-26		1530		
3 02-25-102-24		1528		
4 02-27-103-24		1438		
5 02-25-103-24		1442		
6 02-27-104-26		1420		
7 02-25-184-24		1424		
8 02-27-105-26		1406		
9 02-25-185-24	6/3/19	1409		
10 02-27-106-26	6/5/19	1409		

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

\*\*Metals (Circle): MICA-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 Sn Sr Ti U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide 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	6/5/19 1625	X	6-5-19 1625
X	6/5/19 1625	X	6-5-19 1625
X	6/5/19 1625	X	6-5-19 1625



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

### Chain of Custody Record & Laboratory Services Agreement

Date: 6/5/19 Page: 3 of: 3  
Project Name: AMERICAN LINEN

Laboratory Project No (Internal): 19D10051  
Special Remarks:

Client: PES ENVIRONMENTAL

Address: SEE PG 1

City, State, Zip:

Telephone:

Fax:

Project No: SEE PG 1

Collected by: PG 1

Location:

Report To (PMI):

PM Email:

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GW/BTEX	BTEX	Gasoline Range Organics (GX)	Diesel/Heavy Oil Range Organics (HX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 606)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (C)***	EDB (8011)	Comments
102-25-106-24	6/5/19	13:40	S	X												} 48 HR TAT
<del>02-27-107-26</del>		1343														
<del>02-25-107-24</del>		1346														
4 B-945-24		1540	X													
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 Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sp 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 [Signature] Date/Time 6/5/19 1625 Received [Signature] Date/Time 6-5-19 1625  
 Relinquished [Signature] Date/Time 6/5/19 1625 Received [Signature] Date/Time 6-5-19 1625

www.fremontanalytical.com



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: 1906114**

June 12, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 4 sample(s) on 6/11/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**  
Karsten Springstead  
Kim Vik



Date: 06/12/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906114

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906114-001	02-29-200-28.5	06/11/2019 8:25 AM	06/11/2019 10:33 AM
1906114-002	02-29-201-27.5	06/11/2019 8:10 AM	06/11/2019 10:33 AM
1906114-003	02-29-202-28.5	06/11/2019 8:15 AM	06/11/2019 10:33 AM
1906114-004	02-29-203-27.5	06/11/2019 8:30 AM	06/11/2019 10:33 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



**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906114-001

**Collection Date:** 6/11/2019 8:25:00 AM

**Client Sample ID:** 02-29-200-28.5

**Matrix:** Soil

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

Batch ID: 24871

Analyst: CR

Vinyl chloride	ND	0.276	D	mg/Kg-dry	10	6/11/2019 1:23:11 PM
cis-1,2-Dichloroethene	ND	0.221	D	mg/Kg-dry	10	6/11/2019 1:23:11 PM
Trichloroethene (TCE)	ND	0.221	D	mg/Kg-dry	10	6/11/2019 1:23:11 PM
Tetrachloroethene (PCE)	ND	0.276	D	mg/Kg-dry	10	6/11/2019 1:23:11 PM
Surr: Dibromofluoromethane	94.2	56.5 - 129	D	%Rec	10	6/11/2019 1:23:11 PM
Surr: Toluene-d8	96.1	64.5 - 151	D	%Rec	10	6/11/2019 1:23:11 PM
Surr: 1-Bromo-4-fluorobenzene	98.9	54.8 - 168	D	%Rec	10	6/11/2019 1:23:11 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52007

Analyst: PA

Percent Moisture	15.5	0.500		wt%	1	6/11/2019 5:43:18 PM
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**Lab ID:** 1906114-002

**Collection Date:** 6/11/2019 8:10:00 AM

**Client Sample ID:** 02-29-201-27.5

**Matrix:** Soil

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

Batch ID: 24871

Analyst: CR

Vinyl chloride	ND	0.309	D	mg/Kg-dry	10	6/11/2019 1:53:19 PM
cis-1,2-Dichloroethene	ND	0.247	D	mg/Kg-dry	10	6/11/2019 1:53:19 PM
Trichloroethene (TCE)	ND	0.247	D	mg/Kg-dry	10	6/11/2019 1:53:19 PM
Tetrachloroethene (PCE)	ND	0.309	D	mg/Kg-dry	10	6/11/2019 1:53:19 PM
Surr: Dibromofluoromethane	92.1	56.5 - 129	D	%Rec	10	6/11/2019 1:53:19 PM
Surr: Toluene-d8	95.8	64.5 - 151	D	%Rec	10	6/11/2019 1:53:19 PM
Surr: 1-Bromo-4-fluorobenzene	99.0	54.8 - 168	D	%Rec	10	6/11/2019 1:53:19 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52007

Analyst: PA

Percent Moisture	19.9	0.500		wt%	1	6/11/2019 5:43:18 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906114-003

**Collection Date:** 6/11/2019 8:15:00 AM

**Client Sample ID:** 02-29-202-28.5

**Matrix:** Soil

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

Batch ID: 24871

Analyst: CR

Vinyl chloride	ND	0.346	D	mg/Kg-dry	10	6/11/2019 2:23:30 PM
cis-1,2-Dichloroethene	ND	0.277	D	mg/Kg-dry	10	6/11/2019 2:23:30 PM
Trichloroethene (TCE)	ND	0.277	D	mg/Kg-dry	10	6/11/2019 2:23:30 PM
Tetrachloroethene (PCE)	ND	0.346	D	mg/Kg-dry	10	6/11/2019 2:23:30 PM
Surr: Dibromofluoromethane	91.0	56.5 - 129	D	%Rec	10	6/11/2019 2:23:30 PM
Surr: Toluene-d8	95.2	64.5 - 151	D	%Rec	10	6/11/2019 2:23:30 PM
Surr: 1-Bromo-4-fluorobenzene	98.6	54.8 - 168	D	%Rec	10	6/11/2019 2:23:30 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52007

Analyst: PA

Percent Moisture	18.0	0.500		wt%	1	6/11/2019 5:43:18 PM
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**Lab ID:** 1906114-004

**Collection Date:** 6/11/2019 8:30:00 AM

**Client Sample ID:** 02-29-203-27.5

**Matrix:** Soil

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

Batch ID: 24871

Analyst: CR

Vinyl chloride	ND	0.208	D	mg/Kg-dry	10	6/11/2019 2:53:41 PM
cis-1,2-Dichloroethene	ND	0.166	D	mg/Kg-dry	10	6/11/2019 2:53:41 PM
Trichloroethene (TCE)	ND	0.166	D	mg/Kg-dry	10	6/11/2019 2:53:41 PM
Tetrachloroethene (PCE)	0.268	0.208	D	mg/Kg-dry	10	6/11/2019 2:53:41 PM
Surr: Dibromofluoromethane	88.5	56.5 - 129	D	%Rec	10	6/11/2019 2:53:41 PM
Surr: Toluene-d8	94.2	64.5 - 151	D	%Rec	10	6/11/2019 2:53:41 PM
Surr: 1-Bromo-4-fluorobenzene	99.2	54.8 - 168	D	%Rec	10	6/11/2019 2:53:41 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52007

Analyst: PA

Percent Moisture	15.9	0.500		wt%	1	6/11/2019 5:43:18 PM
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**Work Order:** 1906114  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-24871</b>		SampType: <b>LCS</b>		Units: <b>mg/Kg</b>		Prep Date: <b>6/11/2019</b>		RunNo: <b>52004</b>			
Client ID: <b>LCSS</b>		Batch ID: <b>24871</b>				Analysis Date: <b>6/11/2019</b>		SeqNo: <b>1026496</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.776	0.0250	1.000	0	77.6	43.4	151				
cis-1,2-Dichloroethene	0.950	0.0200	1.000	0	95.0	71.3	135				
Trichloroethene (TCE)	0.961	0.0200	1.000	0	96.1	65.5	137				
Tetrachloroethene (PCE)	1.00	0.0250	1.000	0	100	52.7	150				
Surr: Dibromofluoromethane	1.21		1.250		97.0	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.2	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	54.8	168				

Sample ID: <b>LCSD-24871</b>		SampType: <b>LCSD</b>		Units: <b>mg/Kg</b>		Prep Date: <b>6/11/2019</b>		RunNo: <b>52004</b>			
Client ID: <b>LCSS02</b>		Batch ID: <b>24871</b>				Analysis Date: <b>6/11/2019</b>		SeqNo: <b>1026497</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.738	0.0250	1.000	0	73.8	43.4	151	0.7763	5.07	20	
cis-1,2-Dichloroethene	0.934	0.0200	1.000	0	93.4	71.6	123	0.9502	1.67	20	
Trichloroethene (TCE)	0.925	0.0200	1.000	0	92.5	65.5	137	0.9609	3.81	20	
Tetrachloroethene (PCE)	0.969	0.0250	1.000	0	96.9	52.7	150	1.005	3.65	20	
Surr: Dibromofluoromethane	1.20		1.250		95.9	56.5	129		0		
Surr: Toluene-d8	1.23		1.250		98.4	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.24		1.250		99.4	54.8	168		0		

Sample ID: <b>MB-24871</b>		SampType: <b>MBLK</b>		Units: <b>mg/Kg</b>		Prep Date: <b>6/11/2019</b>		RunNo: <b>52004</b>			
Client ID: <b>MBLKS</b>		Batch ID: <b>24871</b>				Analysis Date: <b>6/11/2019</b>		SeqNo: <b>1026498</b>			
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	1.12		1.250		89.7	56.5	129				
Surr: Toluene-d8	1.20		1.250		96.1	64.5	151				

**Work Order:** 1906114  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>MB-24871</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/11/2019</b>	RunNo: <b>52004</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>24871</b>		Analysis Date: <b>6/11/2019</b>	SeqNo: <b>1026498</b>							
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		95.5	54.8	168			
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Sample ID: <b>1906114-004BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/11/2019</b>	RunNo: <b>52004</b>							
Client ID: <b>02-29-203-27.5</b>	Batch ID: <b>24871</b>		Analysis Date: <b>6/11/2019</b>	SeqNo: <b>1026493</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.208						0	0	30	D
cis-1,2-Dichloroethene	ND	0.166						0	0	30	D
Trichloroethene (TCE)	ND	0.166						0	0	30	D
Tetrachloroethene (PCE)	0.271	0.208						0.2680	0.977	30	D
Surr: Dibromofluoromethane	9.25		10.38		89.1	56.5	129		0		D
Surr: Toluene-d8	9.80		10.38		94.5	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.2		10.38		98.6	54.8	168		0		D

**Work Order:** 1906114  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1906116-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/11/2019</b>	RunNo: <b>52007</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R52007</b>		Analysis Date: <b>6/11/2019</b>	SeqNo: <b>1026570</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	10.9	0.500						11.40	4.13	20	

Client Name: **PES**

 Work Order Number: **1906114**

 Logged by: **Clare Griggs**

 Date Received: **6/11/2019 10:33:00 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

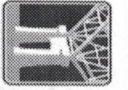
Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	9.8
Sample	5.0

\* 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: 6-11-19 Page: 1 of 1

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: KARSTEN SPENGLER/KOUZ SKANS

Location: SEATTLE, WA

Report To (PM): BRIAN O'NEAL

PM Email: BONNIE@PSENV.COM

Laboratory Project No (Internal): 1906114

Special Remarks:

ASAP TAT  
PCF, TCE, CIS, VC

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: 206-524-3980  
Fax: 206-524-3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes											Comments					
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (HX)	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 02-29-200-28.5	6-11-19	025	S	X																ASAP TAT
2 02-29-201-27.5		810	S	X																
3 02-29-202-28.5		815	S	X																
4 02-29-203-27.5		830	S	X																
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): MTCAs-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.

Retained	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>6-11-19/1033</u>	<u>[Signature]</u>	<u>6/11/19</u>
Relinquished	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>6-11-19/1033</u>	<u>[Signature]</u>	<u>6/11/19</u>

Turn-around Time:

Standard

3 Day

2 Day

Next Day

Same Day (specify) ASAP



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

**RE: American Linen**  
**Work Order Number: 1906256**

June 21, 2019

**Attention Karsten Springstead:**

Fremont Analytical, Inc. received 4 sample(s) on 6/20/2019 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:**  
Kim Vik



Date: 06/21/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906256

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906256-001	02-27-200-26	06/20/2019 8:30 AM	06/20/2019 10:50 AM
1906256-002	02-27-201-26	06/20/2019 8:25 AM	06/20/2019 10:50 AM
1906256-003	02-27-202-26	06/20/2019 8:16 AM	06/20/2019 10:50 AM
1906256-004	02-27-203-26	06/20/2019 8:10 AM	06/20/2019 10:50 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



**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906256-001  
**Client Sample ID:** 02-27-200-26

**Collection Date:** 6/20/2019 8:30:00 AM  
**Matrix:** Soil

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

Batch ID: 24980

Analyst: CR

Vinyl chloride	ND	0.258	D	mg/Kg-dry	10	6/20/2019 3:21:53 PM
cis-1,2-Dichloroethene	ND	0.206	D	mg/Kg-dry	10	6/20/2019 3:21:53 PM
Trichloroethene (TCE)	ND	0.206	D	mg/Kg-dry	10	6/20/2019 3:21:53 PM
Tetrachloroethene (PCE)	ND	0.258	D	mg/Kg-dry	10	6/20/2019 3:21:53 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/20/2019 3:21:53 PM
Surr: Toluene-d8	99.8	64.5 - 151	D	%Rec	10	6/20/2019 3:21:53 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/20/2019 3:21:53 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52197

Analyst: SBM

Percent Moisture	17.8	0.500		wt%	1	6/20/2019 11:01:44 AM
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**Client:** PES Environmental, Inc.  
**Project:** American Linen  
**Lab ID:** 1906256-002  
**Client Sample ID:** 02-27-201-26

**Collection Date:** 6/20/2019 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: 24980      Analyst: CR

Vinyl chloride	ND	0.242	D	mg/Kg-dry	10	6/20/2019 3:52:03 PM
cis-1,2-Dichloroethene	ND	0.193	D	mg/Kg-dry	10	6/20/2019 3:52:03 PM
Trichloroethene (TCE)	ND	0.193	D	mg/Kg-dry	10	6/20/2019 3:52:03 PM
Tetrachloroethene (PCE)	0.0968	0.242	JD	mg/Kg-dry	10	6/20/2019 3:52:03 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/20/2019 3:52:03 PM
Surr: Toluene-d8	99.7	64.5 - 151	D	%Rec	10	6/20/2019 3:52:03 PM
Surr: 1-Bromo-4-fluorobenzene	99.7	54.8 - 168	D	%Rec	10	6/20/2019 3:52:03 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52197      Analyst: SBM

Percent Moisture	16.3	0.500		wt%	1	6/20/2019 11:01:44 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/20/2019 8:16:00 AM

**Project:** American Linen

**Lab ID:** 1906256-003

**Matrix:** Soil

**Client Sample ID:** 02-27-202-26

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

Batch ID: 24980

Analyst: CR

Vinyl chloride	ND	0.311	D	mg/Kg-dry	10	6/20/2019 4:22:10 PM
cis-1,2-Dichloroethene	ND	0.248	D	mg/Kg-dry	10	6/20/2019 4:22:10 PM
Trichloroethene (TCE)	ND	0.248	D	mg/Kg-dry	10	6/20/2019 4:22:10 PM
Tetrachloroethene (PCE)	0.216	0.311	JD	mg/Kg-dry	10	6/20/2019 4:22:10 PM
Surr: Dibromofluoromethane	99.7	56.5 - 129	D	%Rec	10	6/20/2019 4:22:10 PM
Surr: Toluene-d8	99.0	64.5 - 151	D	%Rec	10	6/20/2019 4:22:10 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	6/20/2019 4:22:10 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52197

Analyst: SBM

Percent Moisture	15.0	0.500		wt%	1	6/20/2019 11:01:44 AM
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**Client:** PES Environmental, Inc.

**Collection Date:** 6/20/2019 8:10:00 AM

**Project:** American Linen

**Lab ID:** 1906256-004

**Matrix:** Soil

**Client Sample ID:** 02-27-203-26

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

Batch ID: 24980

Analyst: CR

Vinyl chloride	ND	0.269	D	mg/Kg-dry	10	6/20/2019 4:52:17 PM
cis-1,2-Dichloroethene	ND	0.216	D	mg/Kg-dry	10	6/20/2019 4:52:17 PM
Trichloroethene (TCE)	ND	0.216	D	mg/Kg-dry	10	6/20/2019 4:52:17 PM
Tetrachloroethene (PCE)	0.159	0.269	JD	mg/Kg-dry	10	6/20/2019 4:52:17 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	6/20/2019 4:52:17 PM
Surr: Toluene-d8	99.8	64.5 - 151	D	%Rec	10	6/20/2019 4:52:17 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/20/2019 4:52:17 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52197

Analyst: SBM

Percent Moisture	17.2	0.500		wt%	1	6/20/2019 11:01:44 AM
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**Work Order:** 1906256  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-24980</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/20/2019</b>	RunNo: <b>52213</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>24980</b>					Analysis Date: <b>6/20/2019</b>	SeqNo: <b>1030881</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.06	0.0250	1.000	0	106	43.4	151				
cis-1,2-Dichloroethene	0.985	0.0200	1.000	0	98.5	71.3	135				
Trichloroethene (TCE)	1.00	0.0200	1.000	0	100	65.5	137				
Tetrachloroethene (PCE)	1.02	0.0250	1.000	0	102	52.7	150				
Surr: Dibromofluoromethane	1.30		1.250		104	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	54.8	168				

Sample ID: <b>LCSD-24980</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/20/2019</b>	RunNo: <b>52213</b>				
Client ID: <b>LCSS02</b>	Batch ID: <b>24980</b>					Analysis Date: <b>6/20/2019</b>	SeqNo: <b>1030882</b>				
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	1.057	5.85	20	
cis-1,2-Dichloroethene	0.964	0.0200	1.000	0	96.4	71.6	123	0.9846	2.12	20	
Trichloroethene (TCE)	0.951	0.0200	1.000	0	95.1	65.5	137	1.000	5.02	20	
Tetrachloroethene (PCE)	0.993	0.0250	1.000	0	99.3	52.7	150	1.015	2.17	20	
Surr: Dibromofluoromethane	1.31		1.250		105	56.5	129		0		
Surr: Toluene-d8	1.27		1.250		102	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		102	54.8	168		0		

Sample ID: <b>MB-24980</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/20/2019</b>	RunNo: <b>52213</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>24980</b>					Analysis Date: <b>6/20/2019</b>	SeqNo: <b>1030883</b>				
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		94.4	56.5	129				
Surr: Toluene-d8	1.25		1.250		99.8	64.5	151				

**Work Order:** 1906256  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>MB-24980</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/20/2019</b>	RunNo: <b>52213</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>24980</b>		Analysis Date: <b>6/20/2019</b>	SeqNo: <b>1030883</b>							
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				

Sample ID: <b>1906256-004BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/20/2019</b>	RunNo: <b>52213</b>							
Client ID: <b>02-27-203-26</b>	Batch ID: <b>24980</b>		Analysis Date: <b>6/20/2019</b>	SeqNo: <b>1030878</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.269						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)	0.146	0.269						0.1594	9.01	30	DJ
Surr: Dibromofluoromethane	13.6		13.47		101	56.5	129		0		D
Surr: Toluene-d8	13.4		13.47		99.5	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.5		13.47		100	54.8	168		0		D

**Work Order:** 1906256  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1906223-024ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/20/2019</b>	RunNo: <b>52197</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R52197</b>		Analysis Date: <b>6/20/2019</b>	SeqNo: <b>1030482</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	24.3	0.500						26.90	10.2	20	

Sample ID: <b>1906223-033ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/20/2019</b>	RunNo: <b>52197</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R52197</b>		Analysis Date: <b>6/20/2019</b>	SeqNo: <b>1030492</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.6	0.500						12.02	12.7	20	

Client Name: **PES**

 Work Order Number: **1906256**

 Logged by: **Clare Griggs**

 Date Received: **6/20/2019 10:50:00 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	2.4
Sample	7.9

\* 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: 6-20-19 Page: 1 of 1

Laboratory Project No (Internal): 1906250

Project Name: AMERICAN LIVEN

Project No: 1413.001.05.402

Collected by: R. McLAUGHLIN

Location: SEATTLE WA

Special Remarks:  
ASAP FAT - FRIDAY AM  
SELECT LIST: PCE, TCE,  
CIS-1,2, V.C.

Client: PES ENVIRONMENTAL  
Address: 1215 4th AVE STE 135D  
City, State, Zip: SEATTLE WA 98161

Telephone: 206 529 3985

Fax: 206 529 3985

Report To (PMI): K. SPRINGSTEAD

PM Email: KSPRINGSTEAD@PESENV.COM

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 (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 02-27-200-26	6/20/19	0830	S	X													
2 02-27-201-26		0825	S	X													
3 02-27-202-26		0816	S	X													
4 02-27-203-26		0810	S	X													
5																	
6																	
7																	
8																	
9																	
10																	

R. McLAUGHLIN

\*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 Iodide Fluoride Nitrate+Nitrite

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 [Signature] Date/Time 6/20/19 1050  
Received [Signature] Date/Time 6/20/2019 1050



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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

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

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**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.

**Project:** American Linen

**Lab ID:** 1906316-001

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

**Client Sample ID:** 02-23-103-22

**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

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

**Client Sample ID:** 02-23-104-22

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-003

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

**Client Sample ID:** 02-23-105-22

**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

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

**Client Sample ID:** 02-23-106-22

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-005

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

**Client Sample ID:** 02-23-100-22

**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	6/25/2019 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

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

**Client Sample ID:** 02-23-101-22

**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 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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-007

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

**Client Sample ID:** 02-23-102-22

**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

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

**Client Sample ID:** 02-21-100-20

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-009

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

**Client Sample ID:** 02-19-100-18

**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

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

**Client Sample ID:** 02-21-101-20

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-011

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

**Client Sample ID:** 02-19-101-18.5

**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	0.293	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

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

**Client Sample ID:** 02-21-102-20

**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 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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-013

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

**Client Sample ID:** 02-19-102-18

**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

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

**Client Sample ID:** 02-21-103-20

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-015

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

**Client Sample ID:** 02-19-103-18

**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

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

**Client Sample ID:** 02-21-104-20

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-017

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

**Client Sample ID:** 02-19-104-18

**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

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

**Client Sample ID:** 02-21-105-20

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-019

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

**Client Sample ID:** 02-19-105-18

**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

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

**Client Sample ID:** 02-21-106-20

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-021

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

**Client Sample ID:** 02-19-106-18

**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	0.209	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

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

**Client Sample ID:** B-951-18

**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	0.247	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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906316-023

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

**Client Sample ID:** 04-24-200-23

**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	0.215	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

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

**Client Sample ID:** 04-24-201-23.5

**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	0.210	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 <b>MB-25026</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>6/25/2019</b>	RunNo: <b>52298</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>25026</b>				Analysis Date: <b>6/25/2019</b>	SeqNo: <b>1032838</b>					
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 <b>1906311-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>6/25/2019</b>	RunNo: <b>52298</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>25026</b>				Analysis Date: <b>6/25/2019</b>	SeqNo: <b>1032836</b>					
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 <b>LCS-25031</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>6/25/2019</b>	RunNo: <b>52308</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>25031</b>				Analysis Date: <b>6/25/2019</b>	SeqNo: <b>1032992</b>					
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	<b>LCS-25031</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52308</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>25031</b>			Analysis Date:	<b>6/25/2019</b>	SeqNo:	<b>1032992</b>		
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

Sample ID	<b>LCSD-25031</b>	SampType:	<b>LCSD</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52308</b>		
Client ID:	<b>LCSS02</b>	Batch ID:	<b>25031</b>			Analysis Date:	<b>6/25/2019</b>	SeqNo:	<b>1032993</b>		
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	<b>MB-25031</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52308</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>25031</b>			Analysis Date:	<b>6/25/2019</b>	SeqNo:	<b>1032994</b>		
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			

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

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

Sample ID	<b>1906316-004BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52298</b>		
Client ID:	<b>02-23-106-22</b>	Batch ID:	<b>25026</b>			Analysis Date:	<b>6/25/2019</b>	SeqNo:	<b>1032927</b>		
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	<b>LCS-25026</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52298</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>25026</b>			Analysis Date:	<b>6/25/2019</b>	SeqNo:	<b>1032934</b>		
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	<b>LCSD-25026</b>	SampType:	<b>LCSD</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52298</b>		
Client ID:	<b>LCSS02</b>	Batch ID:	<b>25026</b>			Analysis Date:	<b>6/25/2019</b>	SeqNo:	<b>1032935</b>		
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	<b>LCSD-25026</b>	SampType:	<b>LCSD</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52298</b>		
Client ID:	<b>LCSS02</b>	Batch ID:	<b>25026</b>			Analysis Date:	<b>6/25/2019</b>	SeqNo:	<b>1032935</b>		
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

**NOTES:**

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

Sample ID	<b>1906316-014BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52308</b>		
Client ID:	<b>02-21-103-20</b>	Batch ID:	<b>25031</b>			Analysis Date:	<b>6/25/2019</b>	SeqNo:	<b>1032978</b>		
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	<b>1906316-024BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>6/25/2019</b>	RunNo:	<b>52308</b>		
Client ID:	<b>04-24-201-23.5</b>	Batch ID:	<b>25031</b>			Analysis Date:	<b>6/26/2019</b>	SeqNo:	<b>1032989</b>		
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 <b>1906316-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>6/25/2019</b>	RunNo: <b>52295</b>					
Client ID: <b>02-23-104-22</b>	Batch ID: <b>R52295</b>				Analysis Date: <b>6/25/2019</b>	SeqNo: <b>1032769</b>					
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 <b>1906316-015ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>6/25/2019</b>	RunNo: <b>52295</b>					
Client ID: <b>02-19-103-18</b>	Batch ID: <b>R52295</b>				Analysis Date: <b>6/25/2019</b>	SeqNo: <b>1032783</b>					
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 <b>1906325-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>6/25/2019</b>	RunNo: <b>52302</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>R52302</b>				Analysis Date: <b>6/25/2019</b>	SeqNo: <b>1032890</b>					
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°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:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

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: RTW/KSZ

Location: SEATTLE WA

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

PM Email: KSPRINGSTEAD@PESSENV.COM KVIK@PESSENV.COM

Laboratory Project No (Internal): 19D102110

Special Remarks:

Select List: PCB, TCE, CAS, DCE, V.C.

ASAP T.A.T. (WED AM)

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

Client: PESSENVIRONMENTAL  
Address: 1215 4th AVE STE 1850  
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
1 02-23-103-22	6/25/19	1641	S	X													
2 02-23-104-22		1658		X													
3 02-23-105-22		1112		X													
4 02-23-106-22		1123		X													
5 02-23-100-22		1141		X													
6 02-23-101-22		1200		X													
7 02-23-102-22		1222		X													
8																	
9																	
10																	

*adits per km. 10/25/19 cog*

*ASAP (WED AM)*

*KZ*

*06-25-19*

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 [Signature] Date/Time 6/25/19 1409  
Received [Signature] Date/Time 6-25-19 1409



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: SEE PG 1

Report To (PM):

PM Email:

Laboratory Project No (Internal): 190103110

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 1850  
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 (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
1 02-21-100-20	6/25/19	1144	S	<input checked="" type="checkbox"/>													
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, SI = 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 [Signature] Date/Time 6/25/19 1409 Received [Signature] Date/Time 6-25-19 1409  
 Relinquished [Signature] Date/Time 6/25/19 1409 Received [Signature] Date/Time 6-25-19 1409

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Fax: 206-352-7178

### Chain of Custody Record & Laboratory Services Agreement

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

Project Name: AMERICAN LUNEN

Client: RES ENVIRONMENTAL

Address: SEE PG 1

City, State, Zip:

Telephone:

Fax:

Laboratory Project No (Internal): 440310  
Special Remarks: Y8 HR TAT / ASAP FOR X2 SELECT LIST: PCE, TCE, CIS 12 PC V.C.

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													Comments			
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DW)	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 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		1305	X	X																ASAP - WED AM
6 04-24-206-23	6/25/19	0755	S	X																ASAP - WED AM
7 04-24-201-235	6/25/19	0800	S	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): MICA-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 Sp Se Sr Sn Tl U V Zn  
 Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide 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 [Signature] Date/Time 6/25/19 1409  
 Relinquished [Signature] Date/Time 6/25/19 1409  
 Received [Signature] Date/Time 6-25-19 1409  
 Received [Signature] Date/Time 6-25-19 1409

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



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: 1906330**

June 27, 2019

**Attention Karsten Springstead:**

Fremont Analytical, Inc. received 5 sample(s) on 6/26/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**  
Brian O'Neal  
Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 06/27/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906330

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906330-001	02-25-200-24	06/26/2019 8:08 AM	06/26/2019 9:09 AM
1906330-002	02-25-201-23.5	06/26/2019 8:10 AM	06/26/2019 9:09 AM
1906330-003	02-25-202-23.5	06/26/2019 8:16 AM	06/26/2019 9:09 AM
1906330-004	02-25-203-24.5	06/26/2019 8:14 AM	06/26/2019 9:09 AM
1906330-005	B-952-24	06/26/2019 8:30 AM	06/26/2019 9:09 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



**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906330-001

**Collection Date:** 6/26/2019 8:08:00 AM

**Client Sample ID:** 02-25-200-24

**Matrix:** Soil

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

Batch ID: 25039

Analyst: KT

Vinyl chloride	ND	0.257	D	mg/Kg-dry	10	6/26/2019 2:54:02 PM
cis-1,2-Dichloroethene	ND	0.206	D	mg/Kg-dry	10	6/26/2019 2:54:02 PM
Trichloroethene (TCE)	ND	0.206	D	mg/Kg-dry	10	6/26/2019 2:54:02 PM
Tetrachloroethene (PCE)	0.644	0.257	D	mg/Kg-dry	10	6/26/2019 2:54:02 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/26/2019 2:54:02 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/26/2019 2:54:02 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	54.8 - 168	D	%Rec	10	6/26/2019 2:54:02 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52313

Analyst: CJ

Percent Moisture	12.2	0.500		wt%	1	6/26/2019 9:56:38 AM
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**Lab ID:** 1906330-002

**Collection Date:** 6/26/2019 8:10:00 AM

**Client Sample ID:** 02-25-201-23.5

**Matrix:** Soil

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

Batch ID: 25039

Analyst: KT

Vinyl chloride	ND	0.211	D	mg/Kg-dry	10	6/26/2019 3:26:14 PM
cis-1,2-Dichloroethene	ND	0.169	D	mg/Kg-dry	10	6/26/2019 3:26:14 PM
Trichloroethene (TCE)	ND	0.169	D	mg/Kg-dry	10	6/26/2019 3:26:14 PM
Tetrachloroethene (PCE)	3.23	0.211	D	mg/Kg-dry	10	6/26/2019 3:26:14 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/26/2019 3:26:14 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/26/2019 3:26:14 PM
Surr: 1-Bromo-4-fluorobenzene	98.3	54.8 - 168	D	%Rec	10	6/26/2019 3:26:14 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52313

Analyst: CJ

Percent Moisture	16.5	0.500		wt%	1	6/26/2019 9:56:38 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906330-003

**Collection Date:** 6/26/2019 8:16:00 AM

**Client Sample ID:** 02-25-202-23.5

**Matrix:** Soil

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

Batch ID: 25039

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	6/26/2019 3:56:22 PM
cis-1,2-Dichloroethene	ND	0.187	D	mg/Kg-dry	10	6/26/2019 3:56:22 PM
Trichloroethene (TCE)	ND	0.187	D	mg/Kg-dry	10	6/26/2019 3:56:22 PM
Tetrachloroethene (PCE)	2.63	0.233	D	mg/Kg-dry	10	6/26/2019 3:56:22 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	6/26/2019 3:56:22 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/26/2019 3:56:22 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168	D	%Rec	10	6/26/2019 3:56:22 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52313

Analyst: CJ

Percent Moisture	15.2	0.500		wt%	1	6/26/2019 9:56:38 AM
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**Lab ID:** 1906330-004

**Collection Date:** 6/26/2019 8:14:00 AM

**Client Sample ID:** 02-25-203-24.5

**Matrix:** Soil

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

Batch ID: 25039

Analyst: KT

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	6/26/2019 4:26:30 PM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	6/26/2019 4:26:30 PM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	6/26/2019 4:26:30 PM
Tetrachloroethene (PCE)	9.01	0.253	D	mg/Kg-dry	10	6/26/2019 4:26:30 PM
Surr: Dibromofluoromethane	99.6	56.5 - 129	D	%Rec	10	6/26/2019 4:26:30 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/26/2019 4:26:30 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	54.8 - 168	D	%Rec	10	6/26/2019 4:26:30 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52313

Analyst: CJ

Percent Moisture	16.6	0.500		wt%	1	6/26/2019 9:56:38 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906330-005

**Collection Date:** 6/26/2019 8:30:00 AM

**Client Sample ID:** B-952-24

**Matrix:** Soil

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

Batch ID: 25039

Analyst: KT

Vinyl chloride	ND	0.267	D	mg/Kg-dry	10	6/26/2019 4:56:36 PM
cis-1,2-Dichloroethene	ND	0.214	D	mg/Kg-dry	10	6/26/2019 4:56:36 PM
Trichloroethene (TCE)	ND	0.214	D	mg/Kg-dry	10	6/26/2019 4:56:36 PM
Tetrachloroethene (PCE)	0.537	0.267	D	mg/Kg-dry	10	6/26/2019 4:56:36 PM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	6/26/2019 4:56:36 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/26/2019 4:56:36 PM
Surr: 1-Bromo-4-fluorobenzene	99.2	54.8 - 168	D	%Rec	10	6/26/2019 4:56:36 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52313

Analyst: CJ

Percent Moisture	16.6	0.500		wt%	1	6/26/2019 9:56:38 AM
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**Work Order:** 1906330  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25039</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/26/2019</b>	RunNo: <b>52337</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25039</b>					Analysis Date: <b>6/26/2019</b>	SeqNo: <b>1033495</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.21	0.0250	1.000	0	121	43.4	151				
cis-1,2-Dichloroethene	1.05	0.0200	1.000	0	105	71.3	135				
Trichloroethene (TCE)	1.07	0.0200	1.000	0	107	65.5	137				
Tetrachloroethene (PCE)	1.04	0.0250	1.000	0	104	52.7	150				
Surr: Dibromofluoromethane	1.34		1.250		107	56.5	129				
Surr: Toluene-d8	1.30		1.250		104	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		102	54.8	168				

Sample ID: <b>LCSD-25039</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/26/2019</b>	RunNo: <b>52337</b>				
Client ID: <b>LCSS02</b>	Batch ID: <b>25039</b>					Analysis Date: <b>6/26/2019</b>	SeqNo: <b>1033496</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.18	0.0250	1.000	0	118	43.4	151	1.208	2.58	20	
cis-1,2-Dichloroethene	1.05	0.0200	1.000	0	105	71.6	123	1.051	0.242	20	
Trichloroethene (TCE)	1.06	0.0200	1.000	0	106	65.5	137	1.072	1.55	20	
Tetrachloroethene (PCE)	1.05	0.0250	1.000	0	105	52.7	150	1.041	0.817	20	
Surr: Dibromofluoromethane	1.36		1.250		109	56.5	129		0		
Surr: Toluene-d8	1.29		1.250		103	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	54.8	168		0		

Sample ID: <b>MB-25039</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/26/2019</b>	RunNo: <b>52337</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25039</b>					Analysis Date: <b>6/26/2019</b>	SeqNo: <b>1033497</b>				
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		96.0	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				

Work Order: 1906330  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>MB-25039</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/26/2019</b>	RunNo: <b>52337</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25039</b>		Analysis Date: <b>6/26/2019</b>	SeqNo: <b>1033497</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene      1.20      1.250      95.8      54.8      168

Sample ID: <b>1906330-005BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/26/2019</b>	RunNo: <b>52337</b>							
Client ID: <b>B-952-24</b>	Batch ID: <b>25039</b>		Analysis Date: <b>6/26/2019</b>	SeqNo: <b>1033489</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.267						0	0	30	D
cis-1,2-Dichloroethene	ND	0.214						0	0	30	D
Trichloroethene (TCE)	ND	0.214						0	0	30	D
Tetrachloroethene (PCE)	0.774	0.267						0.5369	36.2	30	D
Surr: Dibromofluoromethane	13.8		13.34		103	56.5	129		0		D
Surr: Toluene-d8	13.4		13.34		100	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.0		13.34		97.4	54.8	168		0		D

Sample ID: <b>1906310-011BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/26/2019</b>	RunNo: <b>52337</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25039</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1033483</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0316						0	0	30	
cis-1,2-Dichloroethene	ND	0.0253						0	0	30	
Trichloroethene (TCE)	ND	0.0253						0	0	30	
Tetrachloroethene (PCE)	ND	0.0316						0	0	30	
Surr: Dibromofluoromethane	1.55		1.580		98.0	56.5	129		0		
Surr: Toluene-d8	1.62		1.580		103	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.52		1.580		96.0	54.8	168		0		



**Work Order:** 1906330  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

## QC SUMMARY REPORT

### Sample Moisture (Percent Moisture)

Sample ID: <b>1906330-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/26/2019</b>	RunNo: <b>52313</b>							
Client ID: <b>02-25-200-24</b>	Batch ID: <b>R52313</b>	Analysis Date: <b>6/26/2019</b>	SeqNo: <b>1033088</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	15.1	0.500						12.23	21.2	20	R

**NOTES:**

R - High RPD observed.

Client Name: **PES**

 Work Order Number: **1906330**

 Logged by: **Clare Griggs**

 Date Received: **6/26/2019 9:09:00 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	6.2
Sample	9.0

\* 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: 6/26/19 Page: 1 of 1

Project Name: American Linen

Project No: 1413.001.05.402

Collected by: K52/RTH

Location: ALS - Seattle, WA

Report To (PM): K. SPANGSTAD

PM Email: KSPANGSTAD@PSEWU.COM, KURIKO.PSEWU.COM

Laboratory Project No (Internal): 19107930

Special Remarks:

Select List: PEE, TEE, CIS 1/2 DEC, VC

ASAP: THURS. AM

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

Client: P&S Enviro  
Address: 1215 4th STE B50  
City, State, Zip: Seattle, WA 98101-9861  
Telephone: 206-529-3980  
Fax: 206-529-3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													Comments			
				VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	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 02-25-200-24	6/26/19	0808	S	X																
2 02-25-201-24235	6/26/19	0810	S	X																
3 02-25-202-235	6/26/19	0816	S	X																
4 02-25-203-24.5	6/26/19	0814	S	X																
5 B-952-24	6/25/19	0830	S	X																
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 U V Zn  
 \*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Fluoride Nitrate+Nitrite

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day 4.M.

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: [Signature] Date/Time: 6/26/19 0809  
 Received: [Signature] Date/Time: 6-26-19 0909



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: 1906348**

June 28, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 7 sample(s) on 6/27/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 06/28/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906348

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906348-001	02-23-112-22	06/27/2019 9:51 AM	06/27/2019 11:12 AM
1906348-002	02-21-112-20	06/27/2019 9:56 AM	06/27/2019 11:12 AM
1906348-003	02-19-112-18	06/27/2019 10:00 AM	06/27/2019 11:12 AM
1906348-004	02-23-113-22	06/27/2019 10:02 AM	06/27/2019 11:12 AM
1906348-005	02-21-113-20	06/27/2019 10:05 AM	06/27/2019 11:12 AM
1906348-006	02-19-113-18	06/27/2019 10:10 AM	06/27/2019 11:12 AM
1906348-007	B-953-20.5	06/27/2019 10:50 AM	06/27/2019 11:12 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.

6/28/19: Rev1 includes revised sample IDs.

### 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.

**Project:** American Linen

**Lab ID:** 1906348-001

**Collection Date:** 6/27/2019 9:51:00 AM

**Client Sample ID:** 02-23-112-22

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.238	D	mg/Kg-dry	10	6/27/2019 7:23:51 PM
cis-1,2-Dichloroethene	1.26	0.191	D	mg/Kg-dry	10	6/27/2019 7:23:51 PM
Trichloroethene (TCE)	0.365	0.191	D	mg/Kg-dry	10	6/27/2019 7:23:51 PM
Tetrachloroethene (PCE)	5.53	0.238	D	mg/Kg-dry	10	6/27/2019 7:23:51 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	6/27/2019 7:23:51 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/27/2019 7:23:51 PM
Surr: 1-Bromo-4-fluorobenzene	98.8	54.8 - 168	D	%Rec	10	6/27/2019 7:23:51 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52348

Analyst: CG

Percent Moisture	13.1	0.500		wt%	1	6/27/2019 12:11:49 PM
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**Lab ID:** 1906348-002

**Collection Date:** 6/27/2019 9:56:00 AM

**Client Sample ID:** 02-21-112-20

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.261	D	mg/Kg-dry	10	6/27/2019 7:53:59 PM
cis-1,2-Dichloroethene	0.246	0.209	D	mg/Kg-dry	10	6/27/2019 7:53:59 PM
Trichloroethene (TCE)	ND	0.209	D	mg/Kg-dry	10	6/27/2019 7:53:59 PM
Tetrachloroethene (PCE)	0.679	0.261	D	mg/Kg-dry	10	6/27/2019 7:53:59 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/27/2019 7:53:59 PM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	6/27/2019 7:53:59 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	54.8 - 168	D	%Rec	10	6/27/2019 7:53:59 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52348

Analyst: CG

Percent Moisture	16.1	0.500		wt%	1	6/27/2019 12:11:49 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906348-003

**Collection Date:** 6/27/2019 10:00:00 AM

**Client Sample ID:** 02-19-112-18

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	6/27/2019 8:24:05 PM
cis-1,2-Dichloroethene	0.379	0.184	D	mg/Kg-dry	10	6/27/2019 8:24:05 PM
Trichloroethene (TCE)	0.103	0.184	DJ	mg/Kg-dry	10	6/27/2019 8:24:05 PM
Tetrachloroethene (PCE)	2.47	0.230	D	mg/Kg-dry	10	6/27/2019 8:24:05 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	6/27/2019 8:24:05 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/27/2019 8:24:05 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	54.8 - 168	D	%Rec	10	6/27/2019 8:24:05 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52348

Analyst: CG

Percent Moisture	12.1	0.500		wt%	1	6/27/2019 12:11:49 PM
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**Lab ID:** 1906348-004

**Collection Date:** 6/27/2019 10:02:00 AM

**Client Sample ID:** 02-23-113-22

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.213	D	mg/Kg-dry	10	6/27/2019 8:54:14 PM
cis-1,2-Dichloroethene	0.410	0.171	D	mg/Kg-dry	10	6/27/2019 8:54:14 PM
Trichloroethene (TCE)	0.154	0.171	DJ	mg/Kg-dry	10	6/27/2019 8:54:14 PM
Tetrachloroethene (PCE)	3.32	0.213	D	mg/Kg-dry	10	6/27/2019 8:54:14 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/27/2019 8:54:14 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	6/27/2019 8:54:14 PM
Surr: 1-Bromo-4-fluorobenzene	98.7	54.8 - 168	D	%Rec	10	6/27/2019 8:54:14 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52348

Analyst: CG

Percent Moisture	13.4	0.500		wt%	1	6/27/2019 12:11:49 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906348-005

**Collection Date:** 6/27/2019 10:05:00 AM

**Client Sample ID:** 02-21-113-20

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.256	D	mg/Kg-dry	10	6/27/2019 9:24:22 PM
cis-1,2-Dichloroethene	0.523	0.205	D	mg/Kg-dry	10	6/27/2019 9:24:22 PM
Trichloroethene (TCE)	0.182	0.205	DJ	mg/Kg-dry	10	6/27/2019 9:24:22 PM
Tetrachloroethene (PCE)	4.34	0.256	D	mg/Kg-dry	10	6/27/2019 9:24:22 PM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	6/27/2019 9:24:22 PM
Surr: Toluene-d8	103	64.5 - 151	D	%Rec	10	6/27/2019 9:24:22 PM
Surr: 1-Bromo-4-fluorobenzene	99.1	54.8 - 168	D	%Rec	10	6/27/2019 9:24:22 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52348

Analyst: CG

Percent Moisture	13.4	0.500		wt%	1	6/27/2019 12:11:49 PM
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**Lab ID:** 1906348-006

**Collection Date:** 6/27/2019 10:10:00 AM

**Client Sample ID:** 02-19-113-18

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.216	D	mg/Kg-dry	10	6/27/2019 9:54:31 PM
cis-1,2-Dichloroethene	0.137	0.172	DJ	mg/Kg-dry	10	6/27/2019 9:54:31 PM
Trichloroethene (TCE)	ND	0.172	D	mg/Kg-dry	10	6/27/2019 9:54:31 PM
Tetrachloroethene (PCE)	1.73	0.216	D	mg/Kg-dry	10	6/27/2019 9:54:31 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/27/2019 9:54:31 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/27/2019 9:54:31 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	54.8 - 168	D	%Rec	10	6/27/2019 9:54:31 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52348

Analyst: CG

Percent Moisture	12.2	0.500		wt%	1	6/27/2019 12:11:49 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906348-007

**Collection Date:** 6/27/2019 10:50:00 AM

**Client Sample ID:** B-953-20.5

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.217	D	mg/Kg-dry	10	6/27/2019 10:24:38 PM
cis-1,2-Dichloroethene	0.328	0.174	D	mg/Kg-dry	10	6/27/2019 10:24:38 PM
Trichloroethene (TCE)	0.112	0.174	DJ	mg/Kg-dry	10	6/27/2019 10:24:38 PM
Tetrachloroethene (PCE)	2.63	0.217	D	mg/Kg-dry	10	6/27/2019 10:24:38 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/27/2019 10:24:38 PM
Surr: Toluene-d8	104	64.5 - 151	D	%Rec	10	6/27/2019 10:24:38 PM
Surr: 1-Bromo-4-fluorobenzene	98.5	54.8 - 168	D	%Rec	10	6/27/2019 10:24:38 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52348

Analyst: CG

Percent Moisture	12.8	0.500		wt%	1	6/27/2019 12:11:49 PM
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**Work Order:** 1906348  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>MB-25056</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034047</b>							
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	1.28		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.0	54.8	168				

Sample ID: <b>1906347-008BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034045</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.232						0	0	30	D
cis-1,2-Dichloroethene	ND	0.186						0	0	30	D
Trichloroethene (TCE)	ND	0.186						0	0	30	D
Tetrachloroethene (PCE)	0.853	0.232						0.7621	11.3	30	D
Surr: Dibromofluoromethane	12.4		11.62		107	56.5	129		0		D
Surr: Toluene-d8	11.9		11.62		102	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.7		11.62		100	54.8	168		0		D

Sample ID: <b>LCS-25056</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034063</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.18	0.0250	1.000	0	118	43.4	151				
cis-1,2-Dichloroethene	1.06	0.0200	1.000	0	106	71.3	135				
Trichloroethene (TCE)	1.09	0.0200	1.000	0	109	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.34		1.250		107	56.5	129				
Surr: Toluene-d8	1.30		1.250		104	64.5	151				

**Work Order:** 1906348  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25056</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034063</b>							
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

Sample ID: <b>LCSD-25056</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034064</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.18	0.0250	1.000	0	118	43.4	151	1.176	0.684	20
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	71.6	123	1.061	1.72	20
Trichloroethene (TCE)	1.06	0.0200	1.000	0	106	65.5	137	1.095	3.17	20
Tetrachloroethene (PCE)	1.05	0.0250	1.000	0	105	52.7	150	1.059	1.30	20
Surr: Dibromofluoromethane	1.35		1.250		108	56.5	129		0	
Surr: Toluene-d8	1.30		1.250		104	64.5	151		0	
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168		0	

Sample ID: <b>1906348-007BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>B-953-20.5</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034056</b>							
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	0.352	0.174						0.3279	7.11	30	D
Trichloroethene (TCE)	0.140	0.174						0.1116	22.2	30	DJ
Tetrachloroethene (PCE)	3.02	0.217						2.630	14.0	30	D
Surr: Dibromofluoromethane	11.2		10.87		103	56.5	129		0		D
Surr: Toluene-d8	11.0		10.87		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.5		10.87		96.3	54.8	168		0		D

**Work Order:** 1906348  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1906347-008ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52348</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R52348</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1033740</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.9	0.500						13.48	2.70	20	

Sample ID: <b>1906348-007ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52348</b>							
Client ID: <b>B-953-20.5</b>	Batch ID: <b>R52348</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1033799</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	12.3	0.500						12.81	4.08	20	

Client Name: <b>PES</b>	Work Order Number: <b>1906348</b>
Logged by: <b>Clare Griggs</b>	Date Received: <b>6/27/2019 11:12:00 AM</b>

**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

**Samples received at appropriate temperature.**

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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	18.8
Sample	3.5
Temp Blank	2.9

\* 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: 6/27/19 Page: 1 of 2

Project Name: American Linen

Project No: 1413.00.05.002

Collected by: K. Ergas / E. Melancon

Location: Seattle, WA

Report To (PM): B. O'Shea

PM Email: BOVEAL@PSENU.COM, KUICK@PSENU.COM, KSPRINGS@PSENU.COM

Laboratory Project No (Internal): 1401349

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

ASAP: FRI 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 3885

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCl)	Diesel/Heavy Oil Range Organics (Dx)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8082 / 808)	PCBs (EPA 8270 - SIM)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (IC)**	ED8 (8011)	Comments
1 O2-23-112-22	6/27/19	0951	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 O2-21-112-2D		0956	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 O2-19-112-18		1600	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
4 O2-23-113-22		1662	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
5 O2-23-113-20		1005	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
6 O2-23-113-18		1010	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
7 B-953-20.5		1050	S	X	X	X	X	X	X	X	X	X	X	X	X	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): MICA-5 RGRA-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: 6/27/19 1112 Received Date/Time: 6/27/19 1112  
 Relinquished Date/Time: 6/27/19 1112 Received Date/Time: 6/27/19 1112

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: 6/27/19 Page: 1 of 2

Project Name: AMERICAN LUMEN

Project No: 1413.00.05.002

Collected by: K. BRAS/E. MALACHUKA

Location: Seattle, WA

Report To (PM): B. BAKER

PM Email: BOB.BAKER@BENSON.COM, KSPRINGS@BENSON.COM

Laboratory Project No (Internal): 1906349

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

ASAP: FRI 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)	GY/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCDI)	Diesel/Heavy Oil Range Organics (DHO)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - SIM)	Metals** (EPA 8082 / 608)	Total (T)   Dissolved (D)	Anions (IC)***	EDR (011)	Comments
1 02-23-112-22	6/27/19	0951	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 02-21-112-2D		0956	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 02-19-112-18		1000	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
4 02-23-113-22		1062	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
5 02-23-113-20		1005	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
6 02-23-113-18		1010	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
7 B-953-20.5		1050	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
8																	
9																	
10																	

edits per KV  
6/28/2019 mmj

02-21-113-20  
02-19-113-18

\*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 Nitrate+Nitrite Fluoride

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: 6/27/19 1112 Received Date/Time: 6/27/19 1112  
Refiniquished Date/Time: Received Date/Time:

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



**PES Environmental, Inc.**

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

**RE: American Linen**

**Work Order Number: 1906354**

June 28, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 5 sample(s) on 6/27/2019 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



Date: 07/01/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1906354

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1906354-001	02-23-114-22	06/27/2019 11:28 AM	06/27/2019 1:26 PM
1906354-002	02-21-114-20	06/27/2019 11:31 AM	06/27/2019 1:26 PM
1906354-003	02-23-115-22	06/27/2019 11:34 AM	06/27/2019 1:26 PM
1906354-004	02-21-115-20	06/27/2019 11:37 AM	06/27/2019 1:26 PM
1906354-005	TB2-062719	06/27/2019 12:40 PM	06/27/2019 1:26 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.

6/28/19: Original report does not include Trip Blank results. Revised report will be sent upon Trip Blank completion.

7/1/19: Rev1 includes Trip Blank results.

### 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.

**Project:** American Linen

**Lab ID:** 1906354-001

**Collection Date:** 6/27/2019 11:28:00 AM

**Client Sample ID:** 02-23-114-22

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.236	D	mg/Kg-dry	10	6/27/2019 11:24:53 PM
cis-1,2-Dichloroethene	0.140	0.188	DJ	mg/Kg-dry	10	6/27/2019 11:24:53 PM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	6/27/2019 11:24:53 PM
Tetrachloroethene (PCE)	0.919	0.236	D	mg/Kg-dry	10	6/27/2019 11:24:53 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/27/2019 11:24:53 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/27/2019 11:24:53 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168	D	%Rec	10	6/27/2019 11:24:53 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52361

Analyst: CJ

Percent Moisture	12.6	0.500		wt%	1	6/27/2019 4:26:30 PM
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**Lab ID:** 1906354-002

**Collection Date:** 6/27/2019 11:31:00 AM

**Client Sample ID:** 02-21-114-20

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.242	D	mg/Kg-dry	10	6/27/2019 11:55:00 PM
cis-1,2-Dichloroethene	0.242	0.194	D	mg/Kg-dry	10	6/27/2019 11:55:00 PM
Trichloroethene (TCE)	ND	0.194	D	mg/Kg-dry	10	6/27/2019 11:55:00 PM
Tetrachloroethene (PCE)	0.625	0.242	D	mg/Kg-dry	10	6/27/2019 11:55:00 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	6/27/2019 11:55:00 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/27/2019 11:55:00 PM
Surr: 1-Bromo-4-fluorobenzene	96.0	54.8 - 168	D	%Rec	10	6/27/2019 11:55:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52361

Analyst: CJ

Percent Moisture	12.6	0.500		wt%	1	6/27/2019 4:26:30 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906354-003

**Collection Date:** 6/27/2019 11:34:00 AM

**Client Sample ID:** 02-23-115-22

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.211	D	mg/Kg-dry	10	6/28/2019 12:25:10 AM
cis-1,2-Dichloroethene	0.0885	0.168	DJ	mg/Kg-dry	10	6/28/2019 12:25:10 AM
Trichloroethene (TCE)	ND	0.168	D	mg/Kg-dry	10	6/28/2019 12:25:10 AM
Tetrachloroethene (PCE)	0.200	0.211	DJ	mg/Kg-dry	10	6/28/2019 12:25:10 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/28/2019 12:25:10 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	6/28/2019 12:25:10 AM
Surr: 1-Bromo-4-fluorobenzene	98.9	54.8 - 168	D	%Rec	10	6/28/2019 12:25:10 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52361

Analyst: CJ

Percent Moisture	14.0	0.500		wt%	1	6/27/2019 4:26:30 PM
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**Lab ID:** 1906354-004

**Collection Date:** 6/27/2019 11:37:00 AM

**Client Sample ID:** 02-21-115-20

**Matrix:** Soil

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

Batch ID: 25056

Analyst: CR

Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	6/28/2019 12:55:19 AM
cis-1,2-Dichloroethene	0.123	0.187	DJ	mg/Kg-dry	10	6/28/2019 12:55:19 AM
Trichloroethene (TCE)	ND	0.187	D	mg/Kg-dry	10	6/28/2019 12:55:19 AM
Tetrachloroethene (PCE)	0.957	0.234	D	mg/Kg-dry	10	6/28/2019 12:55:19 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	6/28/2019 12:55:19 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	6/28/2019 12:55:19 AM
Surr: 1-Bromo-4-fluorobenzene	98.9	54.8 - 168	D	%Rec	10	6/28/2019 12:55:19 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52361

Analyst: CJ

Percent Moisture	12.5	0.500		wt%	1	6/27/2019 4:26:30 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1906354-005

**Collection Date:** 6/27/2019 12:40:00 PM

**Client Sample ID:** TB2-062719

**Matrix:** Soil

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

Batch ID: 25057

Analyst: CR

Vinyl chloride	ND	0.0250		mg/Kg	1	6/28/2019 2:34:44 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	6/28/2019 2:34:44 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	6/28/2019 2:34:44 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	6/28/2019 2:34:44 PM
Surr: Dibromofluoromethane	98.2	56.5 - 129		%Rec	1	6/28/2019 2:34:44 PM
Surr: Toluene-d8	101	64.5 - 151		%Rec	1	6/28/2019 2:34:44 PM
Surr: 1-Bromo-4-fluorobenzene	96.9	54.8 - 168		%Rec	1	6/28/2019 2:34:44 PM

Work Order: 1906354  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>MB-25056</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034047</b>							
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	1.28		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.0	54.8	168				

Sample ID: <b>1906347-008BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034045</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.232						0	0	30	D
cis-1,2-Dichloroethene	ND	0.186						0	0	30	D
Trichloroethene (TCE)	ND	0.186						0	0	30	D
Tetrachloroethene (PCE)	0.853	0.232						0.7621	11.3	30	D
Surr: Dibromofluoromethane	12.4		11.62		107	56.5	129		0		D
Surr: Toluene-d8	11.9		11.62		102	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.7		11.62		100	54.8	168		0		D

Sample ID: <b>LCS-25056</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034063</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.18	0.0250	1.000	0	118	43.4	151				
cis-1,2-Dichloroethene	1.06	0.0200	1.000	0	106	71.3	135				
Trichloroethene (TCE)	1.09	0.0200	1.000	0	109	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.34		1.250		107	56.5	129				
Surr: Toluene-d8	1.30		1.250		104	64.5	151				

**Work Order:** 1906354  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25056</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034063</b>							
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

Sample ID: <b>LCSD-25056</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034064</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.18	0.0250	1.000	0	118	43.4	151	1.176	0.684	20
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	71.6	123	1.061	1.72	20
Trichloroethene (TCE)	1.06	0.0200	1.000	0	106	65.5	137	1.095	3.17	20
Tetrachloroethene (PCE)	1.05	0.0250	1.000	0	105	52.7	150	1.059	1.30	20
Surr: Dibromofluoromethane	1.35		1.250		108	56.5	129		0	
Surr: Toluene-d8	1.30		1.250		104	64.5	151		0	
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168		0	

Sample ID: <b>1906348-007BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52362</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25056</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034056</b>							
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	0.352	0.174						0.3279	7.11	30	D
Trichloroethene (TCE)	0.140	0.174						0.1116	22.2	30	JD
Tetrachloroethene (PCE)	3.02	0.217						2.630	14.0	30	D
Surr: Dibromofluoromethane	11.2		10.87		103	56.5	129		0		D
Surr: Toluene-d8	11.0		10.87		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.5		10.87		96.3	54.8	168		0		D

**Work Order:** 1906354  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25057</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52385</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>25057</b>		Analysis Date: <b>6/28/2019</b>	SeqNo: <b>1034636</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.12	0.0250	1.000	0	112	43.4	151				
cis-1,2-Dichloroethene	1.08	0.0200	1.000	0	108	71.3	135				
Trichloroethene (TCE)	1.11	0.0200	1.000	0	111	65.5	137				
Tetrachloroethene (PCE)	1.09	0.0250	1.000	0	109	52.7	150				
Surr: Dibromofluoromethane	1.37		1.250		109	56.5	129				
Surr: Toluene-d8	1.32		1.250		106	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168				

Sample ID: <b>MB-25057</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52385</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25057</b>		Analysis Date: <b>6/28/2019</b>	SeqNo: <b>1034637</b>							
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		96.8	56.5	129				
Surr: Toluene-d8	1.27		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.18		1.250		94.6	54.8	168				

Sample ID: <b>1906268-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52385</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25057</b>		Analysis Date: <b>6/28/2019</b>	SeqNo: <b>1034625</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0279						0	0	30	
cis-1,2-Dichloroethene	ND	0.0223						0	0	30	
Trichloroethene (TCE)	ND	0.0223						0	0	30	
Tetrachloroethene (PCE)	ND	0.0279						0	0	30	
Surr: Dibromofluoromethane	1.39		1.393		100	56.5	129		0		
Surr: Toluene-d8	1.49		1.393		107	64.5	151		0		

**Work Order:** 1906354  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1906268-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52385</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25057</b>		Analysis Date: <b>6/28/2019</b>	SeqNo: <b>1034625</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	1.45		1.393		104	54.8	168		0		
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Sample ID: <b>1906268-004AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52385</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25057</b>		Analysis Date: <b>6/28/2019</b>	SeqNo: <b>1034922</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.24	0.0273	1.092	0	113	43.6	150				
cis-1,2-Dichloroethene	1.19	0.0218	1.092	0	109	58.6	136				
Trichloroethene (TCE)	1.23	0.0218	1.092	0	112	61.6	147				
Tetrachloroethene (PCE)	1.16	0.0273	1.092	0	106	35.6	158				
Surr: Dibromofluoromethane	1.49		1.365		109	56.5	129				
Surr: Toluene-d8	1.46		1.365		107	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.44		1.365		105	54.8	168				

Sample ID: <b>1906268-004AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52385</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25057</b>		Analysis Date: <b>6/28/2019</b>	SeqNo: <b>1034923</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.25	0.0273	1.092	0	114	43.6	150	1.237	0.913	30	
cis-1,2-Dichloroethene	1.22	0.0218	1.092	0	112	58.6	136	1.188	3.06	30	
Trichloroethene (TCE)	1.23	0.0218	1.092	0	113	61.6	147	1.227	0.393	30	
Tetrachloroethene (PCE)	1.20	0.0273	1.092	0	110	35.6	158	1.162	2.88	30	
Surr: Dibromofluoromethane	1.50		1.365		110	56.5	129		0		
Surr: Toluene-d8	1.43		1.365		105	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.42		1.365		104	54.8	168		0		

**Work Order:** 1906354  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1906354-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52361</b>							
Client ID: <b>02-23-115-22</b>	Batch ID: <b>R52361</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034024</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.7	0.500						14.05	2.32	20	

Sample ID: <b>1906356-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>6/27/2019</b>	RunNo: <b>52361</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R52361</b>		Analysis Date: <b>6/27/2019</b>	SeqNo: <b>1034031</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	5.12	0.500						5.330	3.94	20	

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

Work Order Number: **1906354**  
 Date Received: **6/27/2019 1:26:00 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 \* Samples received straight from field. 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	13.9
Sample	15.9

\* 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: 6/27/19 Page: 1 of 1

Project Name: AMERICA'S GREEN

Project No: 1413, 001.05.402

Collected by: R. McLaughlin / K. Ziegas

Location: Seattle, WA

Report To (PM): Bödel

PM Email: BODEALE@RESEVU.COM, KVIK@RESEVU.COM, KSPRIAS@RESEVU.COM

Laboratory Project No (Internal):

Special Remarks: ASAP TAT - PER AM

SELECT LIST: PCE, TOE, AIS 12-DEC, V.C

1904354

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 (HClD)	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)***	ED8 (8011)	Comments
1 02-23-114-22	6/27/19	1128	S	X													
2 02-21-114-20		1131	S														
3 02-23-115-22		1134	S														
4 02-21-115-20		1137	S	X													
5 TB2-062719		1240	-	X													
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 Sp 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
<u>[Signature]</u>	<u>6/27/19</u>	<u>[Signature]</u>	<u>6/27/19</u>
Relinquished	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>6/27/19</u>	<u>[Signature]</u>	<u>6/27/19</u>

Turn-around Time:

- Standard
- 3 Day
- 2 Day
- Next Day Fri AM

Same Day \_\_\_\_\_ (specify)



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: 1907073**

July 09, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 6 sample(s) on 7/8/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 07/09/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1907073

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1907073-001	02-23-200-22.5	07/08/2019 7:25 AM	07/08/2019 8:40 AM
1907073-002	02-23-201-21.5	07/08/2019 7:32 AM	07/08/2019 8:40 AM
1907073-003	02-23-202-21.5	07/08/2019 7:35 AM	07/08/2019 8:40 AM
1907073-004	02-23-203-22.5	07/08/2019 7:40 AM	07/08/2019 8:40 AM
1907073-005	B-955-22.5	07/08/2019 8:15 AM	07/08/2019 8:40 AM
1907073-006	TB-070819	07/08/2019 12:00 AM	07/08/2019 8:40 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



**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1907073-001

**Collection Date:** 7/8/2019 7:25:00 AM

**Client Sample ID:** 02-23-200-22.5

**Matrix:** Soil

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

Batch ID: 25137

Analyst: KT

Vinyl chloride	ND	0.221	D	mg/Kg-dry	10	7/8/2019 1:55:38 PM
cis-1,2-Dichloroethene	ND	0.177	D	mg/Kg-dry	10	7/8/2019 1:55:38 PM
Trichloroethene (TCE)	ND	0.177	D	mg/Kg-dry	10	7/8/2019 1:55:38 PM
Tetrachloroethene (PCE)	0.0889	0.221	DJ	mg/Kg-dry	10	7/8/2019 1:55:38 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	7/8/2019 1:55:38 PM
Surr: Toluene-d8	98.4	64.5 - 151	D	%Rec	10	7/8/2019 1:55:38 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	7/8/2019 1:55:38 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52529

Analyst: ZR

Percent Moisture	14.5	0.500		wt%	1	7/8/2019 9:42:37 AM
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**Lab ID:** 1907073-002

**Collection Date:** 7/8/2019 7:32:00 AM

**Client Sample ID:** 02-23-201-21.5

**Matrix:** Soil

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

Batch ID: 25137

Analyst: KT

Vinyl chloride	ND	0.229	D	mg/Kg-dry	10	7/8/2019 2:55:53 PM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	7/8/2019 2:55:53 PM
Trichloroethene (TCE)	ND	0.184	D	mg/Kg-dry	10	7/8/2019 2:55:53 PM
Tetrachloroethene (PCE)	0.363	0.229	D	mg/Kg-dry	10	7/8/2019 2:55:53 PM
Surr: Dibromofluoromethane	99.0	56.5 - 129	D	%Rec	10	7/8/2019 2:55:53 PM
Surr: Toluene-d8	98.9	64.5 - 151	D	%Rec	10	7/8/2019 2:55:53 PM
Surr: 1-Bromo-4-fluorobenzene	97.2	54.8 - 168	D	%Rec	10	7/8/2019 2:55:53 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52529

Analyst: ZR

Percent Moisture	13.8	0.500		wt%	1	7/8/2019 9:42:37 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907073-003

**Collection Date:** 7/8/2019 7:35:00 AM

**Client Sample ID:** 02-23-202-21.5

**Matrix:** Soil

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

Batch ID: 25137

Analyst: KT

Vinyl chloride	ND	0.226	D	mg/Kg-dry	10	7/8/2019 3:26:00 PM
cis-1,2-Dichloroethene	ND	0.181	D	mg/Kg-dry	10	7/8/2019 3:26:00 PM
Trichloroethene (TCE)	ND	0.181	D	mg/Kg-dry	10	7/8/2019 3:26:00 PM
Tetrachloroethene (PCE)	0.152	0.226	DJ	mg/Kg-dry	10	7/8/2019 3:26:00 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	7/8/2019 3:26:00 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	7/8/2019 3:26:00 PM
Surr: 1-Bromo-4-fluorobenzene	98.5	54.8 - 168	D	%Rec	10	7/8/2019 3:26:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52529

Analyst: ZR

Percent Moisture	13.9	0.500		wt%	1	7/8/2019 9:42:37 AM
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**Lab ID:** 1907073-004

**Collection Date:** 7/8/2019 7:40:00 AM

**Client Sample ID:** 02-23-203-22.5

**Matrix:** Soil

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

Batch ID: 25137

Analyst: KT

Vinyl chloride	ND	0.247	D	mg/Kg-dry	10	7/8/2019 3:56:09 PM
cis-1,2-Dichloroethene	ND	0.198	D	mg/Kg-dry	10	7/8/2019 3:56:09 PM
Trichloroethene (TCE)	ND	0.198	D	mg/Kg-dry	10	7/8/2019 3:56:09 PM
Tetrachloroethene (PCE)	0.616	0.247	D	mg/Kg-dry	10	7/8/2019 3:56:09 PM
Surr: Dibromofluoromethane	98.0	56.5 - 129	D	%Rec	10	7/8/2019 3:56:09 PM
Surr: Toluene-d8	98.6	64.5 - 151	D	%Rec	10	7/8/2019 3:56:09 PM
Surr: 1-Bromo-4-fluorobenzene	95.3	54.8 - 168	D	%Rec	10	7/8/2019 3:56:09 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52529

Analyst: ZR

Percent Moisture	14.5	0.500		wt%	1	7/8/2019 9:42:37 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907073-005

**Collection Date:** 7/8/2019 8:15:00 AM

**Client Sample ID:** B-955-22.5

**Matrix:** Soil

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

Batch ID: 25137

Analyst: KT

Vinyl chloride	ND	0.250	D	mg/Kg-dry	10	7/8/2019 4:26:17 PM
cis-1,2-Dichloroethene	ND	0.200	D	mg/Kg-dry	10	7/8/2019 4:26:17 PM
Trichloroethene (TCE)	ND	0.200	D	mg/Kg-dry	10	7/8/2019 4:26:17 PM
Tetrachloroethene (PCE)	ND	0.250	D	mg/Kg-dry	10	7/8/2019 4:26:17 PM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	7/8/2019 4:26:17 PM
Surr: Toluene-d8	99.1	64.5 - 151	D	%Rec	10	7/8/2019 4:26:17 PM
Surr: 1-Bromo-4-fluorobenzene	96.0	54.8 - 168	D	%Rec	10	7/8/2019 4:26:17 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52529

Analyst: ZR

Percent Moisture	16.5	0.500		wt%	1	7/8/2019 9:42:37 AM
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**Lab ID:** 1907073-006

**Collection Date:** 7/8/2019

**Client Sample ID:** TB-070819

**Matrix:** Soil

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

Batch ID: 25137

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	7/8/2019 1:25:32 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	7/8/2019 1:25:32 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	7/8/2019 1:25:32 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	7/8/2019 1:25:32 PM
Surr: Dibromofluoromethane	97.7	56.5 - 129		%Rec	1	7/8/2019 1:25:32 PM
Surr: Toluene-d8	99.5	64.5 - 151		%Rec	1	7/8/2019 1:25:32 PM
Surr: 1-Bromo-4-fluorobenzene	97.2	54.8 - 168		%Rec	1	7/8/2019 1:25:32 PM

**Work Order:** 1907073  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25137</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/8/2019</b>	RunNo: <b>52541</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25137</b>					Analysis Date: <b>7/8/2019</b>	SeqNo: <b>1037770</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.04	0.0250	1.000	0	104	43.4	151				
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	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	1.30		1.250		104	56.5	129				
Surr: Toluene-d8	1.28		1.250		102	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.31		1.250		104	54.8	168				

Sample ID: <b>LCSD-25137</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/8/2019</b>	RunNo: <b>52541</b>				
Client ID: <b>LCSS02</b>	Batch ID: <b>25137</b>					Analysis Date: <b>7/8/2019</b>	SeqNo: <b>1037771</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.04	0.0250	1.000	0	104	43.4	151	1.044	0.277	20	
cis-1,2-Dichloroethene	1.03	0.0200	1.000	0	103	71.6	123	1.039	1.02	20	
Trichloroethene (TCE)	1.02	0.0200	1.000	0	102	65.5	137	1.040	1.93	20	
Tetrachloroethene (PCE)	1.05	0.0250	1.000	0	105	52.7	150	1.059	0.803	20	
Surr: Dibromofluoromethane	1.32		1.250		106	56.5	129		0		
Surr: Toluene-d8	1.29		1.250		103	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168		0		

Sample ID: <b>MB-25137</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/8/2019</b>	RunNo: <b>52541</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25137</b>					Analysis Date: <b>7/8/2019</b>	SeqNo: <b>1037772</b>				
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	1.23		1.250		98.3	56.5	129				
Surr: Toluene-d8	1.25		1.250		100	64.5	151				

Work Order: 1907073  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>MB-25137</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/8/2019</b>	RunNo: <b>52541</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25137</b>		Analysis Date: <b>7/8/2019</b>	SeqNo: <b>1037772</b>							
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      98.6      54.8      168

Sample ID: <b>1907073-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/8/2019</b>	RunNo: <b>52541</b>							
Client ID: <b>02-23-200-22.5</b>	Batch ID: <b>25137</b>		Analysis Date: <b>7/8/2019</b>	SeqNo: <b>1037762</b>							
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						0.08888	200	30	D
Surr: Dibromofluoromethane	11.3		11.04		103	56.5	129		0		D
Surr: Toluene-d8	10.9		11.04		98.5	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	10.9		11.04		99.0	54.8	168		0		D

Sample ID: <b>1907069-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/8/2019</b>	RunNo: <b>52541</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25137</b>		Analysis Date: <b>7/8/2019</b>	SeqNo: <b>1037758</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0310						0	0	30	
cis-1,2-Dichloroethene	ND	0.0248						0	0	30	
Trichloroethene (TCE)	ND	0.0248						0	0	30	
Tetrachloroethene (PCE)	ND	0.0310						0	0	30	
Surr: Dibromofluoromethane	1.56		1.550		101	56.5	129		0		
Surr: Toluene-d8	1.56		1.550		100	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.52		1.550		98.0	54.8	168		0		



**Work Order:** 1907073  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

## QC SUMMARY REPORT

### Sample Moisture (Percent Moisture)

Sample ID: <b>1907073-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/8/2019</b>	RunNo: <b>52529</b>							
Client ID: <b>B-955-22.5</b>	Batch ID: <b>R52529</b>	Analysis Date: <b>7/8/2019</b>	SeqNo: <b>1037520</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	16.0	0.500						16.45	2.91	20	

Sample ID: <b>1907070-023BDUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/8/2019</b>	RunNo: <b>52529</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R52529</b>	Analysis Date: <b>7/8/2019</b>	SeqNo: <b>1037531</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	14.9	0.500						13.18	12.0	20	

Client Name: **PES**

 Work Order Number: **1907073**

 Logged by: **Clare Griggs**

 Date Received: **7/8/2019 8:40:00 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	3.4
Sample	9.6

\* 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: 7/8/19 Page: 1 of: 1

Project Name: American Linen

Laboratory Project No (Internal): 1907073

Collected by: R. M. Langley / K. Zigas

Location: Seattle, WA

Special Remarks:  
Select List: PCE, TCE, CIS-1,2, DCE, VC  
ASAP T.A.T: 7/9 A.M., 9:30 A.M.

Report To (PM): B. O'NEAL

PM Email: BONALOP@SENU.COM, KUIK@SENU.COM, KSPRINGSTEAD@SENU.COM

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

Client: PES ENVIRONMENTAL, INC.  
Address: 1215 4th Ave, Ste. 1250  
City, State, Zip: Seattle, WA, 98161  
Telephone: 206 529 3780  
Fax: 206 529 3781

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 02-23-200-22.5	7/8/19	0725	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 02-23-201-21.5		0732	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 02-23-202-21.5		0735	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
4 02-23-203-22.5		0740	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
5 B-955-22.5		0815	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
6 TB-070819	7/8/19		S	X	X	X	X	X	X	X	X	X	X	X	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 Sb Se Sr Sn Tl U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide 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: 7/8/19 08:40 Received Date/Time: 7/8/19 8:40

Relinquished Date/Time: 7/8/19 08:40 Received Date/Time: 7/8/19 8:40

Turn-around Time:  
 Standard  
 3 Day  
 2 Day ASAP  
 Next Day  
 Same Day 7/9 A.M. (specify)



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: 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**  
Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 07/16/2019

**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



**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907193-001

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

**Client Sample ID:** 02-19-200-17.5

**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

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

**Client Sample ID:** 02-19-201-18.5

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907193-003

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

**Client Sample ID:** 02-19-202-17.5

**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

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

**Client Sample ID:** 02-19-203-18.5

**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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907193-005

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

**Client Sample ID:** 04-21-112-20

**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	0.281	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

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

**Client Sample ID:** 04-21-111-19

**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 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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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907193-007

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

**Client Sample ID:** 04-19-110-18

**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	0.242	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

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

**Client Sample ID:** TB-071519

**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	0.0250		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 <b>LCS-25200</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/15/2019</b>	RunNo: <b>52660</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25200</b>					Analysis Date: <b>7/15/2019</b>	SeqNo: <b>1040215</b>				
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 <b>LCSD-25200</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/15/2019</b>	RunNo: <b>52660</b>				
Client ID: <b>LCSS02</b>	Batch ID: <b>25200</b>					Analysis Date: <b>7/15/2019</b>	SeqNo: <b>1040216</b>				
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 <b>MB-25200</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/15/2019</b>	RunNo: <b>52660</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25200</b>					Analysis Date: <b>7/15/2019</b>	SeqNo: <b>1040217</b>				
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 <b>MB-25200</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/15/2019</b>	RunNo: <b>52660</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25200</b>		Analysis Date: <b>7/15/2019</b>	SeqNo: <b>1040217</b>							
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 <b>1907193-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/15/2019</b>	RunNo: <b>52660</b>							
Client ID: <b>02-19-200-17.5</b>	Batch ID: <b>25200</b>		Analysis Date: <b>7/15/2019</b>	SeqNo: <b>1040204</b>							
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 <b>1907193-007BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/15/2019</b>	RunNo: <b>52660</b>							
Client ID: <b>04-19-110-18</b>	Batch ID: <b>25200</b>		Analysis Date: <b>7/15/2019</b>	SeqNo: <b>1040211</b>							
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 <b>1907193-006ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/15/2019</b>	RunNo: <b>52650</b>							
Client ID: <b>04-21-111-19</b>	Batch ID: <b>R52650</b>	Analysis Date: <b>7/15/2019</b>	SeqNo: <b>1039991</b>								
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 <b>1907193-007ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/15/2019</b>	RunNo: <b>52650</b>							
Client ID: <b>04-19-110-18</b>	Batch ID: <b>R52650</b>	Analysis Date: <b>7/15/2019</b>	SeqNo: <b>1040031</b>								
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: <b>PES</b>	Work Order Number: <b>1907193</b>
Logged by: <b>Carissa True</b>	Date Received: <b>7/15/2019 10:09:00 AM</b>

**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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

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  
Project Name: AMERICAN LUMEN  
Project No: 1413.001.05.402

Collected by: R. W. VAUGHAN / K. ZYGAS  
Location: SEATTLE WA  
Report To (PM): B. ONEAL

PM Email: BONEAL@PES ENV.COM

Laboratory Project No (Internal): 1907193  
Special Remarks: SELECT LIST: ACE, TCE, CIS-1,2, DCE  
ASAP TAT - TUES AM (7/16)  
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)	Diesel/Heavy Oil Range Organics (HCID)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8270 - SIM)	Metals** (EPA 8082 / 608)	Total (T) / Dissolved (D)	Anions (IC)***	EDB (8013)	Comments
1 03-19-200-17.5	7/15/19	0755	S	X													
2 03-19-201-18.5		0750															
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 T6-071519		0935	-	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 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.

Retrieved: [Signature] Date/Time: 7/15/19 1009  
 Received: [Signature] Date/Time: 7/15/19 1009  
 Retinquished: [Signature] Date/Time: 7/15/19 1009

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day  
 Same Day (specify) TUES AM



**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: 7/15/19 Page: 1 of: 1

Project Name: AMERICAN LENSE

Project No: 1413.001.05.402

Collected by: R. WELSHGUN/K. ZYGAS

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@FRES ENV. COM

Laboratory Project No (Internal): 1907193

Special Remarks:

SELECT LIST: PCE, 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)

Client: FRES 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/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)**	EDs (8011)	Comments
<del>03-19-200-17.5</del> <sup>02</sup> 03-19-200-17.5	7/15/19	0755	S	X													
<del>03-19-201-18.5</del> <sup>02</sup> 03-19-201-18.5		0756	S	X													
<del>03-19-202-17.5</del> <sup>02</sup> 03-19-202-17.5		0745	S	X													
<del>03-19-203-18.5</del> <sup>02</sup> 03-19-203-18.5		0735	S	X													
04-21-112-20		0925	S														
04-21-111-19		0920	S														
04-19-110-18		0915	S														
78-071519		0936	S														
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): MICA-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 [Signature] Date/Time 7/15/19 1009 Received [Signature] Date/Time 7/15/19 1009  
Relinquished [Signature] Date/Time 7/15/19 1009 Received [Signature] Date/Time 7/15/19 1009

Turn-around Time:  Standard  3 Day  2 Day  Next Day  Same Day (specify) TUES AM



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: 1907237**

July 18, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 19 sample(s) on 7/17/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 07/18/2019

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1907237

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1907237-001	03-23-206-22	07/17/2019 12:26 PM	07/17/2019 2:48 PM
1907237-002	03-21-206-21	07/17/2019 12:30 PM	07/17/2019 2:48 PM
1907237-003	03-21-206-20	07/17/2019 12:35 PM	07/17/2019 2:48 PM
1907237-004	03-23-207-21.5	07/17/2019 12:35 PM	07/17/2019 2:48 PM
1907237-005	03-21-207-20.5	07/17/2019 12:38 PM	07/17/2019 2:48 PM
1907237-006	03-21-207-19.5	07/17/2019 12:41 PM	07/17/2019 2:48 PM
1907237-007	TB-071719	07/17/2019 7:00 AM	07/17/2019 2:48 PM
1907237-008	02-17-100-16	07/17/2019 2:00 PM	07/17/2019 2:48 PM
1907237-009	02-17-101-16	07/17/2019 1:55 PM	07/17/2019 2:48 PM
1907237-010	02-17-102-16	07/17/2019 1:52 PM	07/17/2019 2:48 PM
1907237-011	02-17-103-16	07/17/2019 1:40 PM	07/17/2019 2:48 PM
1907237-012	02-17-104-16	07/17/2019 1:37 PM	07/17/2019 2:48 PM
1907237-013	02-17-105-16	07/17/2019 1:35 PM	07/17/2019 2:48 PM
1907237-014	02-17-106-16	07/17/2019 1:27 PM	07/17/2019 2:48 PM
1907237-015	02-17-116-16	07/17/2019 2:02 PM	07/17/2019 2:48 PM
1907237-016	02-17-117-16	07/17/2019 2:05 PM	07/17/2019 2:48 PM
1907237-017	02-OB-004-16.5	07/17/2019 1:43 PM	07/17/2019 2:48 PM
1907237-018	02-OB-004-15.5	07/17/2019 1:45 PM	07/17/2019 2:48 PM
1907237-019	B-957-16	07/17/2019 2:30 PM	07/17/2019 2:48 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.

**Project:** American Linen

**Lab ID:** 1907237-001

**Collection Date:** 7/17/2019 12:26:00 PM

**Client Sample ID:** 03-23-206-22

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.264	D	mg/Kg-dry	10	7/17/2019 5:57:45 PM
cis-1,2-Dichloroethene	ND	0.211	D	mg/Kg-dry	10	7/17/2019 5:57:45 PM
Trichloroethene (TCE)	ND	0.211	D	mg/Kg-dry	10	7/17/2019 5:57:45 PM
Tetrachloroethene (PCE)	2.27	0.264	D	mg/Kg-dry	10	7/17/2019 5:57:45 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/17/2019 5:57:45 PM
Surr: Toluene-d8	99.8	64.5 - 151	D	%Rec	10	7/17/2019 5:57:45 PM
Surr: 1-Bromo-4-fluorobenzene	98.3	54.8 - 168	D	%Rec	10	7/17/2019 5:57:45 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	15.3	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Lab ID:** 1907237-002

**Collection Date:** 7/17/2019 12:30:00 PM

**Client Sample ID:** 03-21-206-21

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.252	D	mg/Kg-dry	10	7/17/2019 6:27:51 PM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	7/17/2019 6:27:51 PM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	7/17/2019 6:27:51 PM
Tetrachloroethene (PCE)	1.86	0.252	D	mg/Kg-dry	10	7/17/2019 6:27:51 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	7/17/2019 6:27:51 PM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	7/17/2019 6:27:51 PM
Surr: 1-Bromo-4-fluorobenzene	96.5	54.8 - 168	D	%Rec	10	7/17/2019 6:27:51 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	15.1	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-003

**Collection Date:** 7/17/2019 12:35:00 PM

**Client Sample ID:** 03-21-206-20

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.240	D	mg/Kg-dry	10	7/17/2019 6:57:58 PM
cis-1,2-Dichloroethene	ND	0.192	D	mg/Kg-dry	10	7/17/2019 6:57:58 PM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	7/17/2019 6:57:58 PM
Tetrachloroethene (PCE)	2.50	0.240	D	mg/Kg-dry	10	7/17/2019 6:57:58 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/17/2019 6:57:58 PM
Surr: Toluene-d8	99.4	64.5 - 151	D	%Rec	10	7/17/2019 6:57:58 PM
Surr: 1-Bromo-4-fluorobenzene	94.9	54.8 - 168	D	%Rec	10	7/17/2019 6:57:58 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	13.9	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Lab ID:** 1907237-004

**Collection Date:** 7/17/2019 12:35:00 PM

**Client Sample ID:** 03-23-207-21.5

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.326	D	mg/Kg-dry	10	7/17/2019 7:28:05 PM
cis-1,2-Dichloroethene	ND	0.261	D	mg/Kg-dry	10	7/17/2019 7:28:05 PM
Trichloroethene (TCE)	ND	0.261	D	mg/Kg-dry	10	7/17/2019 7:28:05 PM
Tetrachloroethene (PCE)	1.16	0.326	D	mg/Kg-dry	10	7/17/2019 7:28:05 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/17/2019 7:28:05 PM
Surr: Toluene-d8	99.9	64.5 - 151	D	%Rec	10	7/17/2019 7:28:05 PM
Surr: 1-Bromo-4-fluorobenzene	95.7	54.8 - 168	D	%Rec	10	7/17/2019 7:28:05 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	13.2	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-005

**Collection Date:** 7/17/2019 12:38:00 PM

**Client Sample ID:** 03-21-207-20.5

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	7/17/2019 7:58:12 PM
cis-1,2-Dichloroethene	ND	0.186	D	mg/Kg-dry	10	7/17/2019 7:58:12 PM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	7/17/2019 7:58:12 PM
Tetrachloroethene (PCE)	1.10	0.233	D	mg/Kg-dry	10	7/17/2019 7:58:12 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/17/2019 7:58:12 PM
Surr: Toluene-d8	99.4	64.5 - 151	D	%Rec	10	7/17/2019 7:58:12 PM
Surr: 1-Bromo-4-fluorobenzene	96.8	54.8 - 168	D	%Rec	10	7/17/2019 7:58:12 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	14.8	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Lab ID:** 1907237-006

**Collection Date:** 7/17/2019 12:41:00 PM

**Client Sample ID:** 03-21-207-19.5

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.273	D	mg/Kg-dry	10	7/17/2019 8:28:19 PM
cis-1,2-Dichloroethene	ND	0.219	D	mg/Kg-dry	10	7/17/2019 8:28:19 PM
Trichloroethene (TCE)	ND	0.219	D	mg/Kg-dry	10	7/17/2019 8:28:19 PM
Tetrachloroethene (PCE)	0.470	0.273	D	mg/Kg-dry	10	7/17/2019 8:28:19 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	7/17/2019 8:28:19 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	7/17/2019 8:28:19 PM
Surr: 1-Bromo-4-fluorobenzene	95.8	54.8 - 168	D	%Rec	10	7/17/2019 8:28:19 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	13.8	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-007

**Collection Date:** 7/17/2019 7:00:00 AM

**Client Sample ID:** TB-071719

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	7/17/2019 5:27:37 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	7/17/2019 5:27:37 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	7/17/2019 5:27:37 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	7/17/2019 5:27:37 PM
Surr: Dibromofluoromethane	105	56.5 - 129		%Rec	1	7/17/2019 5:27:37 PM
Surr: Toluene-d8	98.5	64.5 - 151		%Rec	1	7/17/2019 5:27:37 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168		%Rec	1	7/17/2019 5:27:37 PM

**Lab ID:** 1907237-008

**Collection Date:** 7/17/2019 2:00:00 PM

**Client Sample ID:** 02-17-100-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.231	D	mg/Kg-dry	10	7/17/2019 8:58:25 PM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	7/17/2019 8:58:25 PM
Trichloroethene (TCE)	ND	0.184	D	mg/Kg-dry	10	7/17/2019 8:58:25 PM
Tetrachloroethene (PCE)	0.094	0.231	JD	mg/Kg-dry	10	7/17/2019 8:58:25 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	7/17/2019 8:58:25 PM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	7/17/2019 8:58:25 PM
Surr: 1-Bromo-4-fluorobenzene	96.3	54.8 - 168	D	%Rec	10	7/17/2019 8:58:25 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	17.4	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-009

**Collection Date:** 7/17/2019 1:55:00 PM

**Client Sample ID:** 02-17-101-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.242	D	mg/Kg-dry	10	7/17/2019 9:28:34 PM
cis-1,2-Dichloroethene	ND	0.194	D	mg/Kg-dry	10	7/17/2019 9:28:34 PM
Trichloroethene (TCE)	ND	0.194	D	mg/Kg-dry	10	7/17/2019 9:28:34 PM
Tetrachloroethene (PCE)	0.255	0.242	D	mg/Kg-dry	10	7/17/2019 9:28:34 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	7/17/2019 9:28:34 PM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	7/17/2019 9:28:34 PM
Surr: 1-Bromo-4-fluorobenzene	93.4	54.8 - 168	D	%Rec	10	7/17/2019 9:28:34 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	13.6	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Lab ID:** 1907237-010

**Collection Date:** 7/17/2019 1:52:00 PM

**Client Sample ID:** 02-17-102-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.241	D	mg/Kg-dry	10	7/17/2019 9:58:42 PM
cis-1,2-Dichloroethene	0.088	0.193	JD	mg/Kg-dry	10	7/17/2019 9:58:42 PM
Trichloroethene (TCE)	ND	0.193	D	mg/Kg-dry	10	7/17/2019 9:58:42 PM
Tetrachloroethene (PCE)	1.29	0.241	D	mg/Kg-dry	10	7/17/2019 9:58:42 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	7/17/2019 9:58:42 PM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	7/17/2019 9:58:42 PM
Surr: 1-Bromo-4-fluorobenzene	94.4	54.8 - 168	D	%Rec	10	7/17/2019 9:58:42 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	12.7	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-011

**Collection Date:** 7/17/2019 1:40:00 PM

**Client Sample ID:** 02-17-103-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.243	D	mg/Kg-dry	10	7/17/2019 10:58:55 PM
cis-1,2-Dichloroethene	1.01	0.194	D	mg/Kg-dry	10	7/17/2019 10:58:55 PM
Trichloroethene (TCE)	0.305	0.194	D	mg/Kg-dry	10	7/17/2019 10:58:55 PM
Tetrachloroethene (PCE)	3.54	0.243	D	mg/Kg-dry	10	7/17/2019 10:58:55 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	7/17/2019 10:58:55 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	7/17/2019 10:58:55 PM
Surr: 1-Bromo-4-fluorobenzene	96.2	54.8 - 168	D	%Rec	10	7/17/2019 10:58:55 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	12.9	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Lab ID:** 1907237-012

**Collection Date:** 7/17/2019 1:37:00 PM

**Client Sample ID:** 02-17-104-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.280	D	mg/Kg-dry	10	7/17/2019 11:29:02 PM
cis-1,2-Dichloroethene	ND	0.224	D	mg/Kg-dry	10	7/17/2019 11:29:02 PM
Trichloroethene (TCE)	ND	0.224	D	mg/Kg-dry	10	7/17/2019 11:29:02 PM
Tetrachloroethene (PCE)	ND	0.280	D	mg/Kg-dry	10	7/17/2019 11:29:02 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/17/2019 11:29:02 PM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	7/17/2019 11:29:02 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	54.8 - 168	D	%Rec	10	7/17/2019 11:29:02 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	17.9	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-013

**Collection Date:** 7/17/2019 1:35:00 PM

**Client Sample ID:** 02-17-105-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.249	D	mg/Kg-dry	10	7/17/2019 11:59:08 PM
cis-1,2-Dichloroethene	ND	0.200	D	mg/Kg-dry	10	7/17/2019 11:59:08 PM
Trichloroethene (TCE)	ND	0.200	D	mg/Kg-dry	10	7/17/2019 11:59:08 PM
Tetrachloroethene (PCE)	ND	0.249	D	mg/Kg-dry	10	7/17/2019 11:59:08 PM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	7/17/2019 11:59:08 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	7/17/2019 11:59:08 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	54.8 - 168	D	%Rec	10	7/17/2019 11:59:08 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	14.7	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Lab ID:** 1907237-014

**Collection Date:** 7/17/2019 1:27:00 PM

**Client Sample ID:** 02-17-106-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.221	D	mg/Kg-dry	10	7/18/2019 12:29:15 AM
cis-1,2-Dichloroethene	ND	0.177	D	mg/Kg-dry	10	7/18/2019 12:29:15 AM
Trichloroethene (TCE)	ND	0.177	D	mg/Kg-dry	10	7/18/2019 12:29:15 AM
Tetrachloroethene (PCE)	0.327	0.221	D	mg/Kg-dry	10	7/18/2019 12:29:15 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/18/2019 12:29:15 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	7/18/2019 12:29:15 AM
Surr: 1-Bromo-4-fluorobenzene	95.1	54.8 - 168	D	%Rec	10	7/18/2019 12:29:15 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	15.1	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-015

**Collection Date:** 7/17/2019 2:02:00 PM

**Client Sample ID:** 02-17-116-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.236	D	mg/Kg-dry	10	7/18/2019 12:59:23 AM
cis-1,2-Dichloroethene	ND	0.189	D	mg/Kg-dry	10	7/18/2019 12:59:23 AM
Trichloroethene (TCE)	ND	0.189	D	mg/Kg-dry	10	7/18/2019 12:59:23 AM
Tetrachloroethene (PCE)	ND	0.236	D	mg/Kg-dry	10	7/18/2019 12:59:23 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/18/2019 12:59:23 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	7/18/2019 12:59:23 AM
Surr: 1-Bromo-4-fluorobenzene	95.4	54.8 - 168	D	%Rec	10	7/18/2019 12:59:23 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	13.3	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Lab ID:** 1907237-016

**Collection Date:** 7/17/2019 2:05:00 PM

**Client Sample ID:** 02-17-117-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.240	D	mg/Kg-dry	10	7/18/2019 1:59:38 AM
cis-1,2-Dichloroethene	3.71	0.192	D	mg/Kg-dry	10	7/18/2019 1:59:38 AM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	7/18/2019 1:59:38 AM
Tetrachloroethene (PCE)	0.591	0.240	D	mg/Kg-dry	10	7/18/2019 1:59:38 AM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	7/18/2019 1:59:38 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	7/18/2019 1:59:38 AM
Surr: 1-Bromo-4-fluorobenzene	97.3	54.8 - 168	D	%Rec	10	7/18/2019 1:59:38 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	15.1	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-017

**Collection Date:** 7/17/2019 1:43:00 PM

**Client Sample ID:** 02-OB-004-16.5

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.242	D	mg/Kg-dry	10	7/18/2019 2:29:44 AM
cis-1,2-Dichloroethene	0.763	0.194	D	mg/Kg-dry	10	7/18/2019 2:29:44 AM
Trichloroethene (TCE)	0.229	0.194	D	mg/Kg-dry	10	7/18/2019 2:29:44 AM
Tetrachloroethene (PCE)	2.49	0.242	D	mg/Kg-dry	10	7/18/2019 2:29:44 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/18/2019 2:29:44 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	7/18/2019 2:29:44 AM
Surr: 1-Bromo-4-fluorobenzene	95.5	54.8 - 168	D	%Rec	10	7/18/2019 2:29:44 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	12.3	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Lab ID:** 1907237-018

**Collection Date:** 7/17/2019 1:45:00 PM

**Client Sample ID:** 02-OB-004-15.5

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.248	D	mg/Kg-dry	10	7/18/2019 2:59:53 AM
cis-1,2-Dichloroethene	0.737	0.198	D	mg/Kg-dry	10	7/18/2019 2:59:53 AM
Trichloroethene (TCE)	0.297	0.198	D	mg/Kg-dry	10	7/18/2019 2:59:53 AM
Tetrachloroethene (PCE)	3.76	0.248	D	mg/Kg-dry	10	7/18/2019 2:59:53 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/18/2019 2:59:53 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	7/18/2019 2:59:53 AM
Surr: 1-Bromo-4-fluorobenzene	95.8	54.8 - 168	D	%Rec	10	7/18/2019 2:59:53 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	12.3	0.500		wt%	1	7/17/2019 3:10:11 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907237-019

**Collection Date:** 7/17/2019 2:30:00 PM

**Client Sample ID:** B-957-16

**Matrix:** Soil

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

Batch ID: 25226

Analyst: KT

Vinyl chloride	ND	0.241	D	mg/Kg-dry	10	7/18/2019 3:30:02 AM
cis-1,2-Dichloroethene	ND	0.193	D	mg/Kg-dry	10	7/18/2019 3:30:02 AM
Trichloroethene (TCE)	ND	0.193	D	mg/Kg-dry	10	7/18/2019 3:30:02 AM
Tetrachloroethene (PCE)	0.268	0.241	D	mg/Kg-dry	10	7/18/2019 3:30:02 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/18/2019 3:30:02 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	7/18/2019 3:30:02 AM
Surr: 1-Bromo-4-fluorobenzene	96.0	54.8 - 168	D	%Rec	10	7/18/2019 3:30:02 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52710

Analyst: KP

Percent Moisture	14.0	0.500		wt%	1	7/17/2019 3:10:11 PM
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**Work Order:** 1907237  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25226</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/17/2019</b>	RunNo: <b>52719</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25226</b>					Analysis Date: <b>7/17/2019</b>	SeqNo: <b>1041325</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.06	0.0250	1.000	0	106	43.4	151				
cis-1,2-Dichloroethene	1.02	0.0200	1.000	0	102	71.3	135				
Trichloroethene (TCE)	0.989	0.0200	1.000	0	98.9	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.34		1.250		107	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		103	54.8	168				

Sample ID: <b>LCSD-25226</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/17/2019</b>	RunNo: <b>52719</b>				
Client ID: <b>LCSS02</b>	Batch ID: <b>25226</b>					Analysis Date: <b>7/17/2019</b>	SeqNo: <b>1041326</b>				
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	1.064	4.04	20	
cis-1,2-Dichloroethene	1.00	0.0200	1.000	0	100	71.6	123	1.021	2.03	20	
Trichloroethene (TCE)	0.949	0.0200	1.000	0	94.9	65.5	137	0.9891	4.17	20	
Tetrachloroethene (PCE)	1.02	0.0250	1.000	0	102	52.7	150	1.061	4.37	20	
Surr: Dibromofluoromethane	1.34		1.250		108	56.5	129		0		
Surr: Toluene-d8	1.25		1.250		99.9	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168		0		

Sample ID: <b>MB-25226</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/17/2019</b>	RunNo: <b>52719</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25226</b>					Analysis Date: <b>7/17/2019</b>	SeqNo: <b>1041327</b>				
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	1.30		1.250		104	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				

Work Order: 1907237  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>MB-25226</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/17/2019</b>	RunNo: <b>52719</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25226</b>		Analysis Date: <b>7/17/2019</b>	SeqNo: <b>1041327</b>							
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      96.8      54.8      168

Sample ID: <b>1907237-010BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/17/2019</b>	RunNo: <b>52719</b>							
Client ID: <b>02-17-102-16</b>	Batch ID: <b>25226</b>		Analysis Date: <b>7/17/2019</b>	SeqNo: <b>1041311</b>							
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	0.108	0.193						0.08800	20.6	30	JD
Trichloroethene (TCE)	ND	0.193						0	0	30	D
Tetrachloroethene (PCE)	1.34	0.241						1.288	4.19	30	D
Surr: Dibromofluoromethane	12.6		12.07		104	56.5	129		0		D
Surr: Toluene-d8	12.0		12.07		99.7	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.6		12.07		96.2	54.8	168		0		D

Sample ID: <b>1907237-019BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/17/2019</b>	RunNo: <b>52719</b>							
Client ID: <b>B-957-16</b>	Batch ID: <b>25226</b>		Analysis Date: <b>7/18/2019</b>	SeqNo: <b>1041321</b>							
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)	0.300	0.241						0.2679	11.3	30	D
Surr: Dibromofluoromethane	12.4		12.04		103	56.5	129		0		D
Surr: Toluene-d8	11.9		12.04		98.6	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.6		12.04		96.1	54.8	168		0		D

**Work Order:** 1907237  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1907237-010ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/17/2019</b>	RunNo: <b>52710</b>							
Client ID: <b>02-17-102-16</b>	Batch ID: <b>R52710</b>		Analysis Date: <b>7/17/2019</b>	SeqNo: <b>1041103</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	12.4	0.500						12.69	2.40	20	

Sample ID: <b>1907237-018ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/17/2019</b>	RunNo: <b>52710</b>							
Client ID: <b>02-OB-004-15.5</b>	Batch ID: <b>R52710</b>		Analysis Date: <b>7/17/2019</b>	SeqNo: <b>1041112</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	12.5	0.500						12.30	1.20	20	

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

Work Order Number: **1907237**  
 Date Received: **7/17/2019 2:48:00 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   
 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	2.9
Sample	7.1

\* 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: 7/17/19 Page: 1 of 2

Project Name: AMERICAN LIVEN

Project No: 1413.001.05.402

Collected by: RTM/KSZ

Location: SEATTLE WA

Report To (PM): B ONEAL

PM Email: BONEAL@PESENV.COM

Laboratory Project No (Internal): 1907237

Special Remarks:

ASAP TAT (THURS AM)  
SELECT LIST: POE, TCE, CIS-1,2 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 8985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes												Comments	
				VOCs (EPA 8260 / 624)	GV/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	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)		
1 05-23-206-22	7/17/19	1226	S	X													
2 03-21-206-21		1230															
3 03-21-206-20		1235															
4 03-23-207-215		1235															
5 03-21-207-20.5		1238															
6 03-21-207-19.5		1241															
7 TB-071719		0700	-														
8 02-17-100-16		1400															
9 02-17-101-16		1355															
10 02-17-102-16		1352															

\*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 Fluoride Nitrate+Nitrite

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: [Signature] Date/Time: 7/17/19 1448  
 Received: [Signature] Date/Time: 7/17/19 1448  
 Relinquished: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received: \_\_\_\_\_ Date/Time: \_\_\_\_\_



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

# Chain of Custody Record & Laboratory Services Agreement

Client: **PES ENVIRONMENTAL**

Address: **1215 4th AVE STE 1350**

City, State, zip: **SEATTLE WA 98161**

Telephone: **206 529 3980**

Fax: **206 529 3985**

Date: **7/17/19** Page: **2** of **2**

Project Name: **AMERICAN LIVEN**

Project No: **1413.001.05.402**

Collected by: **RTM/KSZ**

Location: **SEATTLE WA**

Report To (PM): **B. DNEAL**

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

Laboratory Project No (Internal):

Special Remarks:

**ASAP TAT - THURS 7/18**  
**SELECT LIST: TCE, PCE**  
**GIS, 1-2 DCE, 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)	GY/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (DX)	Diesel/Heavy Oil Range Organics (HX)	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 02-17-103-16	7/17/19	1340	S	X													
2 02-17-184-16		1337															
3 02-17-105-16		1335															
4 02-17-106-16		1327															
5 02-17-116-16		1392															
6 02-17-117-16		1405															
7 02-08-004-16.5		1343															
8 02-08-004-15.5		1345															
9 B-957-16		1430	X	X													
10																	

\*Matrix: A = Air, AO = 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): MTCAS-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 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: **7/17/19 1448** Received Date/Time: **7/17/19 1448**

Retrieved Date/Time: **7/17/19 1448** Received Date/Time: **7/17/19 1448**

Turn-around Time:  Same Day (specify)  2 Day  3 Day



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: 1907267**

July 22, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 13 sample(s) on 7/19/2019 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,

A handwritten signature in blue ink, appearing to read 'Brianna Barnes'.

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 07/24/2019

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1907267

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1907267-001	B-958-20	07/19/2019 8:40 AM	07/19/2019 2:33 PM
1907267-002	03-21-125-19	07/19/2019 10:00 AM	07/19/2019 2:33 PM
1907267-003	03-21-124-21	07/19/2019 10:07 AM	07/19/2019 2:33 PM
1907267-004	03-21-124-19	07/19/2019 10:10 AM	07/19/2019 2:33 PM
1907267-005	03-21-123-21	07/19/2019 10:15 AM	07/19/2019 2:33 PM
1907267-006	03-19-123-18.5	07/19/2019 10:18 AM	07/19/2019 2:33 PM
1907267-007	03-21-122-20.5	07/19/2019 10:25 AM	07/19/2019 2:33 PM
1907267-008	03-21-122-19	07/19/2019 10:27 AM	07/19/2019 2:33 PM
1907267-009	02-17-200-16.5	07/19/2019 1:55 PM	07/19/2019 2:33 PM
1907267-010	02-17-201-15.5	07/19/2019 1:49 PM	07/19/2019 2:33 PM
1907267-011	02-17-202-16.5	07/19/2019 1:42 PM	07/19/2019 2:33 PM
1907267-012	02-17-203-15.5	07/19/2019 1:46 PM	07/19/2019 2:33 PM
1907267-013	TB-071919	07/19/2019 12:25 PM	07/19/2019 2:33 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.

**Project:** American Linen

**Lab ID:** 1907267-001

**Collection Date:** 7/19/2019 8:40:00 AM

**Client Sample ID:** B-958-20

**Matrix:** Soil

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

Batch ID: 25246

Analyst: KT

Vinyl chloride	ND	0.244	D	mg/Kg-dry	10	7/19/2019 9:56:07 PM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	7/19/2019 9:56:07 PM
Trichloroethene (TCE)	0.245	0.196	D	mg/Kg-dry	10	7/19/2019 9:56:07 PM
Tetrachloroethene (PCE)	8.91	0.244	D	mg/Kg-dry	10	7/19/2019 9:56:07 PM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	7/19/2019 9:56:07 PM
Surr: Toluene-d8	98.0	64.5 - 151	D	%Rec	10	7/19/2019 9:56:07 PM
Surr: 1-Bromo-4-fluorobenzene	98.8	54.8 - 168	D	%Rec	10	7/19/2019 9:56:07 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	8.89	0.500		wt%	1	7/19/2019 3:12:43 PM
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**Lab ID:** 1907267-002

**Collection Date:** 7/19/2019 10:00:00 AM

**Client Sample ID:** 03-21-125-19

**Matrix:** Soil

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

Batch ID: 25246

Analyst: KT

Vinyl chloride	ND	0.228	D	mg/Kg-dry	10	7/19/2019 10:26:16 PM
cis-1,2-Dichloroethene	0.104	0.182	DJ	mg/Kg-dry	10	7/19/2019 10:26:16 PM
Trichloroethene (TCE)	0.344	0.182	D	mg/Kg-dry	10	7/19/2019 10:26:16 PM
Tetrachloroethene (PCE)	13.6	0.228	D	mg/Kg-dry	10	7/19/2019 10:26:16 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	7/19/2019 10:26:16 PM
Surr: Toluene-d8	98.1	64.5 - 151	D	%Rec	10	7/19/2019 10:26:16 PM
Surr: 1-Bromo-4-fluorobenzene	99.9	54.8 - 168	D	%Rec	10	7/19/2019 10:26:16 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	10.1	0.500		wt%	1	7/19/2019 3:12:43 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907267-003

**Collection Date:** 7/19/2019 10:07:00 AM

**Client Sample ID:** 03-21-124-21

**Matrix:** Soil

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

Batch ID: 25246

Analyst: KT

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	7/19/2019 10:56:24 PM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	7/19/2019 10:56:24 PM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	7/19/2019 10:56:24 PM
Tetrachloroethene (PCE)	0.201	0.253	DJ	mg/Kg-dry	10	7/19/2019 10:56:24 PM
Surr: Dibromofluoromethane	107	56.5 - 129	D	%Rec	10	7/19/2019 10:56:24 PM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	7/19/2019 10:56:24 PM
Surr: 1-Bromo-4-fluorobenzene	98.6	54.8 - 168	D	%Rec	10	7/19/2019 10:56:24 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	9.48	0.500		wt%	1	7/19/2019 3:12:43 PM
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**Lab ID:** 1907267-004

**Collection Date:** 7/19/2019 10:10:00 AM

**Client Sample ID:** 03-21-124-19

**Matrix:** Soil

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

Batch ID: 25246

Analyst: KT

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	7/19/2019 11:26:34 PM
cis-1,2-Dichloroethene	ND	0.201	D	mg/Kg-dry	10	7/19/2019 11:26:34 PM
Trichloroethene (TCE)	0.166	0.201	DJ	mg/Kg-dry	10	7/19/2019 11:26:34 PM
Tetrachloroethene (PCE)	5.32	0.251	D	mg/Kg-dry	10	7/19/2019 11:26:34 PM
Surr: Dibromofluoromethane	107	56.5 - 129	D	%Rec	10	7/19/2019 11:26:34 PM
Surr: Toluene-d8	98.1	64.5 - 151	D	%Rec	10	7/19/2019 11:26:34 PM
Surr: 1-Bromo-4-fluorobenzene	98.5	54.8 - 168	D	%Rec	10	7/19/2019 11:26:34 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	11.6	0.500		wt%	1	7/19/2019 3:12:43 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907267-005

**Collection Date:** 7/19/2019 10:15:00 AM

**Client Sample ID:** 03-21-123-21

**Matrix:** Soil

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

Batch ID: 25246

Analyst: KT

Vinyl chloride	ND	0.280	D	mg/Kg-dry	10	7/19/2019 11:56:42 PM
cis-1,2-Dichloroethene	ND	0.224	D	mg/Kg-dry	10	7/19/2019 11:56:42 PM
Trichloroethene (TCE)	0.193	0.224	DJ	mg/Kg-dry	10	7/19/2019 11:56:42 PM
Tetrachloroethene (PCE)	16.2	0.280	D	mg/Kg-dry	10	7/19/2019 11:56:42 PM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	7/19/2019 11:56:42 PM
Surr: Toluene-d8	98.2	64.5 - 151	D	%Rec	10	7/19/2019 11:56:42 PM
Surr: 1-Bromo-4-fluorobenzene	97.9	54.8 - 168	D	%Rec	10	7/19/2019 11:56:42 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	8.62	0.500		wt%	1	7/19/2019 3:12:43 PM
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**Lab ID:** 1907267-006

**Collection Date:** 7/19/2019 10:18:00 AM

**Client Sample ID:** 03-19-123-18.5

**Matrix:** Soil

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

Batch ID: 25246

Analyst: KT

Vinyl chloride	ND	0.325	D	mg/Kg-dry	10	7/20/2019 12:26:49 AM
cis-1,2-Dichloroethene	0.894	0.260	D	mg/Kg-dry	10	7/20/2019 12:26:49 AM
Trichloroethene (TCE)	0.393	0.260	D	mg/Kg-dry	10	7/20/2019 12:26:49 AM
Tetrachloroethene (PCE)	4.10	0.325	D	mg/Kg-dry	10	7/20/2019 12:26:49 AM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	7/20/2019 12:26:49 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	7/20/2019 12:26:49 AM
Surr: 1-Bromo-4-fluorobenzene	96.1	54.8 - 168	D	%Rec	10	7/20/2019 12:26:49 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	10.2	0.500		wt%	1	7/19/2019 3:12:43 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907267-007

**Collection Date:** 7/19/2019 10:25:00 AM

**Client Sample ID:** 03-21-122-20.5

**Matrix:** Soil

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

Batch ID: 25246

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	7/20/2019 12:56:55 AM
cis-1,2-Dichloroethene	0.196	0.187	D	mg/Kg-dry	10	7/20/2019 12:56:55 AM
Trichloroethene (TCE)	0.483	0.187	D	mg/Kg-dry	10	7/20/2019 12:56:55 AM
Tetrachloroethene (PCE)	6.13	0.233	D	mg/Kg-dry	10	7/20/2019 12:56:55 AM
Surr: Dibromofluoromethane	105	56.5 - 129	D	%Rec	10	7/20/2019 12:56:55 AM
Surr: Toluene-d8	97.8	64.5 - 151	D	%Rec	10	7/20/2019 12:56:55 AM
Surr: 1-Bromo-4-fluorobenzene	98.1	54.8 - 168	D	%Rec	10	7/20/2019 12:56:55 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	12.5	0.500		wt%	1	7/19/2019 3:12:43 PM
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**Lab ID:** 1907267-008

**Collection Date:** 7/19/2019 10:27:00 AM

**Client Sample ID:** 03-21-122-19

**Matrix:** Soil

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

Batch ID: 25246

Analyst: KT

Vinyl chloride	ND	0.258	D	mg/Kg-dry	10	7/20/2019 1:27:03 AM
cis-1,2-Dichloroethene	0.314	0.207	D	mg/Kg-dry	10	7/20/2019 1:27:03 AM
Trichloroethene (TCE)	ND	0.207	D	mg/Kg-dry	10	7/20/2019 1:27:03 AM
Tetrachloroethene (PCE)	0.897	0.258	D	mg/Kg-dry	10	7/20/2019 1:27:03 AM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	7/20/2019 1:27:03 AM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	7/20/2019 1:27:03 AM
Surr: 1-Bromo-4-fluorobenzene	96.1	54.8 - 168	D	%Rec	10	7/20/2019 1:27:03 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	12.2	0.500		wt%	1	7/19/2019 3:12:43 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907267-009

**Collection Date:** 7/19/2019 1:55:00 PM

**Client Sample ID:** 02-17-200-16.5

**Matrix:** Soil

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

Batch ID: 25257

Analyst: KT

Vinyl chloride	ND	0.264	D	mg/Kg-dry	10	7/22/2019 12:07:28 PM
cis-1,2-Dichloroethene	ND	0.212	D	mg/Kg-dry	10	7/22/2019 12:07:28 PM
Trichloroethene (TCE)	ND	0.212	D	mg/Kg-dry	10	7/22/2019 12:07:28 PM
Tetrachloroethene (PCE)	0.360	0.264	D	mg/Kg-dry	10	7/22/2019 12:07:28 PM
Surr: Dibromofluoromethane	107	56.5 - 129	D	%Rec	10	7/22/2019 12:07:28 PM
Surr: Toluene-d8	99.4	64.5 - 151	D	%Rec	10	7/22/2019 12:07:28 PM
Surr: 1-Bromo-4-fluorobenzene	98.1	54.8 - 168	D	%Rec	10	7/22/2019 12:07:28 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	16.4	0.500		wt%	1	7/19/2019 3:12:43 PM
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**Lab ID:** 1907267-010

**Collection Date:** 7/19/2019 1:49:00 PM

**Client Sample ID:** 02-17-201-15.5

**Matrix:** Soil

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

Batch ID: 25257

Analyst: KT

Vinyl chloride	ND	0.311	D	mg/Kg-dry	10	7/22/2019 1:07:42 PM
cis-1,2-Dichloroethene	ND	0.248	D	mg/Kg-dry	10	7/22/2019 1:07:42 PM
Trichloroethene (TCE)	ND	0.248	D	mg/Kg-dry	10	7/22/2019 1:07:42 PM
Tetrachloroethene (PCE)	0.268	0.311	DJ	mg/Kg-dry	10	7/22/2019 1:07:42 PM
Surr: Dibromofluoromethane	107	56.5 - 129	D	%Rec	10	7/22/2019 1:07:42 PM
Surr: Toluene-d8	97.7	64.5 - 151	D	%Rec	10	7/22/2019 1:07:42 PM
Surr: 1-Bromo-4-fluorobenzene	99.4	54.8 - 168	D	%Rec	10	7/22/2019 1:07:42 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	16.1	0.500		wt%	1	7/19/2019 3:12:43 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907267-011

**Collection Date:** 7/19/2019 1:42:00 PM

**Client Sample ID:** 02-17-202-16.5

**Matrix:** Soil

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

Batch ID: 25257

Analyst: KT

Vinyl chloride	ND	0.276	D	mg/Kg-dry	10	7/22/2019 1:37:51 PM
cis-1,2-Dichloroethene	ND	0.221	D	mg/Kg-dry	10	7/22/2019 1:37:51 PM
Trichloroethene (TCE)	ND	0.221	D	mg/Kg-dry	10	7/22/2019 1:37:51 PM
Tetrachloroethene (PCE)	0.362	0.276	D	mg/Kg-dry	10	7/22/2019 1:37:51 PM
Surr: Dibromofluoromethane	107	56.5 - 129	D	%Rec	10	7/22/2019 1:37:51 PM
Surr: Toluene-d8	97.8	64.5 - 151	D	%Rec	10	7/22/2019 1:37:51 PM
Surr: 1-Bromo-4-fluorobenzene	97.7	54.8 - 168	D	%Rec	10	7/22/2019 1:37:51 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	17.0	0.500		wt%	1	7/19/2019 3:12:43 PM
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**Lab ID:** 1907267-012

**Collection Date:** 7/19/2019 1:46:00 PM

**Client Sample ID:** 02-17-203-15.5

**Matrix:** Soil

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

Batch ID: 25257

Analyst: KT

Vinyl chloride	ND	0.321	D	mg/Kg-dry	10	7/22/2019 2:07:58 PM
cis-1,2-Dichloroethene	ND	0.256	D	mg/Kg-dry	10	7/22/2019 2:07:58 PM
Trichloroethene (TCE)	ND	0.256	D	mg/Kg-dry	10	7/22/2019 2:07:58 PM
Tetrachloroethene (PCE)	0.374	0.321	D	mg/Kg-dry	10	7/22/2019 2:07:58 PM
Surr: Dibromofluoromethane	107	56.5 - 129	D	%Rec	10	7/22/2019 2:07:58 PM
Surr: Toluene-d8	98.9	64.5 - 151	D	%Rec	10	7/22/2019 2:07:58 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	7/22/2019 2:07:58 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52756

Analyst: KP

Percent Moisture	16.7	0.500		wt%	1	7/19/2019 3:12:43 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907267-013

**Collection Date:** 7/19/2019 12:25:00 PM

**Client Sample ID:** TB-071919

**Matrix:** Soil

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

Batch ID: 25257

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	7/22/2019 11:37:19 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	7/22/2019 11:37:19 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	7/22/2019 11:37:19 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	7/22/2019 11:37:19 AM
Surr: Dibromofluoromethane	103	56.5 - 129		%Rec	1	7/22/2019 11:37:19 AM
Surr: Toluene-d8	98.0	64.5 - 151		%Rec	1	7/22/2019 11:37:19 AM
Surr: 1-Bromo-4-fluorobenzene	94.5	54.8 - 168		%Rec	1	7/22/2019 11:37:19 AM

**Work Order:** 1907267  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID	<b>LCS-25246</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>7/19/2019</b>	RunNo:	<b>52764</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>25246</b>			Analysis Date:	<b>7/19/2019</b>	SeqNo:	<b>1042297</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.963	0.0250	1.000	0	96.3	43.4	151				
cis-1,2-Dichloroethene	1.04	0.0200	1.000	0	104	71.3	135				
Trichloroethene (TCE)	1.04	0.0200	1.000	0	104	65.5	137				
Tetrachloroethene (PCE)	1.07	0.0250	1.000	0	107	52.7	150				
Surr: Dibromofluoromethane	1.35		1.250		108	56.5	129				
Surr: Toluene-d8	1.27		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	54.8	168				

Sample ID	<b>MB-25246</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>7/19/2019</b>	RunNo:	<b>52764</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>25246</b>			Analysis Date:	<b>7/19/2019</b>	SeqNo:	<b>1042298</b>		
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		102	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.4	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.23		1.250		98.2	54.8	168				

Sample ID	<b>1907236-001BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>7/19/2019</b>	RunNo:	<b>52764</b>		
Client ID:	<b>BATCH</b>	Batch ID:	<b>25246</b>			Analysis Date:	<b>7/19/2019</b>	SeqNo:	<b>1042273</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0269						0	0	30	
cis-1,2-Dichloroethene	ND	0.0215						0	0	30	
Trichloroethene (TCE)	ND	0.0215						0	0	30	
Tetrachloroethene (PCE)	ND	0.0269						0	0	30	
Surr: Dibromofluoromethane	1.37		1.345		102	56.5	129		0		
Surr: Toluene-d8	1.36		1.345		101	64.5	151		0		

**Work Order:** 1907267  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>1907236-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/19/2019</b>	RunNo: <b>52764</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25246</b>	Analysis Date: <b>7/19/2019</b>	SeqNo: <b>1042273</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	1.33		1.345		99.2	54.8	168		0		
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Sample ID <b>1907236-003BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/19/2019</b>	RunNo: <b>52764</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25246</b>	Analysis Date: <b>7/19/2019</b>	SeqNo: <b>1042278</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0343						0	0	30	
cis-1,2-Dichloroethene	ND	0.0274						0	0	30	
Trichloroethene (TCE)	ND	0.0274						0	0	30	
Tetrachloroethene (PCE)	ND	0.0343						0	0	30	
Surr: Dibromofluoromethane	1.80		1.715		105	56.5	129		0		
Surr: Toluene-d8	1.72		1.715		100	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.66		1.715		96.7	54.8	168		0		

Sample ID <b>1907236-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/19/2019</b>	RunNo: <b>52764</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25246</b>	Analysis Date: <b>7/19/2019</b>	SeqNo: <b>1042275</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	1.71	0.0450	1.800	0	94.9	43.6	150				
cis-1,2-Dichloroethene	1.91	0.0360	1.800	0	106	58.6	136				
Trichloroethene (TCE)	1.89	0.0360	1.800	0	105	61.6	147				
Tetrachloroethene (PCE)	1.93	0.0450	1.800	0	107	35.6	158				
Surr: Dibromofluoromethane	2.42		2.250		108	56.5	129				
Surr: Toluene-d8	2.26		2.250		100	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	2.33		2.250		104	54.8	168				

**Work Order:** 1907267  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>1907236-002BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>7/19/2019</b>	RunNo: <b>52764</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>25246</b>					Analysis Date: <b>7/19/2019</b>	SeqNo: <b>1042276</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.74	0.0450	1.800	0	96.9	43.6	150	1.707	2.14	30	
cis-1,2-Dichloroethene	1.90	0.0360	1.800	0	105	58.6	136	1.905	0.370	30	
Trichloroethene (TCE)	1.89	0.0360	1.800	0	105	61.6	147	1.889	0.237	30	
Tetrachloroethene (PCE)	1.98	0.0450	1.800	0	110	35.6	158	1.928	2.63	30	
Surr: Dibromofluoromethane	2.40		2.250		107	56.5	129		0		
Surr: Toluene-d8	2.25		2.250		100	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	2.34		2.250		104	54.8	168		0		

Sample ID <b>LCS-25257</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/22/2019</b>	RunNo: <b>52817</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25257</b>					Analysis Date: <b>7/22/2019</b>	SeqNo: <b>1043683</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.07	0.0250	1.000	0	107	43.4	151				
cis-1,2-Dichloroethene	1.10	0.0200	1.000	0	110	71.3	135				
Trichloroethene (TCE)	1.05	0.0200	1.000	0	105	65.5	137				
Tetrachloroethene (PCE)	1.13	0.0250	1.000	0	113	52.7	150				
Surr: Dibromofluoromethane	1.35		1.250		108	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.30		1.250		104	54.8	168				

Sample ID <b>MB-25257</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/22/2019</b>	RunNo: <b>52817</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25257</b>					Analysis Date: <b>7/22/2019</b>	SeqNo: <b>1043684</b>				
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	1.31		1.250		105	56.5	129				
Surr: Toluene-d8	1.25		1.250		100	64.5	151				

**Work Order:** 1907267  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>MB-25257</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/22/2019</b>	RunNo: <b>52817</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25257</b>		Analysis Date: <b>7/22/2019</b>	SeqNo: <b>1043684</b>							
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      96.8      54.8      168

Sample ID <b>1907267-009BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/22/2019</b>	RunNo: <b>52817</b>							
Client ID: <b>02-17-200-16.5</b>	Batch ID: <b>25257</b>		Analysis Date: <b>7/22/2019</b>	SeqNo: <b>1043673</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.264						0	0	30	D
cis-1,2-Dichloroethene	ND	0.212						0	0	30	D
Trichloroethene (TCE)	ND	0.212						0	0	30	D
Tetrachloroethene (PCE)	0.302	0.264						0.3599	17.5	30	D
Surr: Dibromofluoromethane	14.3		13.22		108	56.5	129		0		D
Surr: Toluene-d8	13.3		13.22		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.1		13.22		98.9	54.8	168		0		D

Sample ID <b>1907236-011BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/22/2019</b>	RunNo: <b>52817</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25257</b>		Analysis Date: <b>7/22/2019</b>	SeqNo: <b>1043658</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0252						0	0	30	
cis-1,2-Dichloroethene	ND	0.0201						0	0	30	
Trichloroethene (TCE)	ND	0.0201						0	0	30	
Tetrachloroethene (PCE)	ND	0.0252						0	0	30	
Surr: Dibromofluoromethane	1.34		1.259		106	56.5	129		0		
Surr: Toluene-d8	1.23		1.259		97.3	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.20		1.259		95.5	54.8	168		0		

**Work Order:** 1907267  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>1907267-010BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/22/2019</b>	RunNo: <b>52817</b>							
Client ID: <b>02-17-201-15.5</b>	Batch ID: <b>25257</b>		Analysis Date: <b>7/22/2019</b>	SeqNo: <b>1043675</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	11.4	0.311	12.42	0	91.9	43.6	150				D
cis-1,2-Dichloroethene	11.7	0.248	12.42	0	94.1	58.6	136				D
Trichloroethene (TCE)	12.2	0.248	12.42	0	97.8	61.6	147				D
Tetrachloroethene (PCE)	12.5	0.311	12.42	0.2678	98.4	35.6	158				D
Surr: Dibromofluoromethane	16.1		15.53		103	56.5	129				D
Surr: Toluene-d8	15.0		15.53		96.9	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	16.7		15.53		107	54.8	168				D

Sample ID <b>1907267-010BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/22/2019</b>	RunNo: <b>52817</b>							
Client ID: <b>02-17-201-15.5</b>	Batch ID: <b>25257</b>		Analysis Date: <b>7/22/2019</b>	SeqNo: <b>1043676</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	11.7	0.311	12.42	0	94.0	43.6	150	11.41	2.30	30	D
cis-1,2-Dichloroethene	11.6	0.248	12.42	0	93.4	58.6	136	11.69	0.831	30	D
Trichloroethene (TCE)	11.8	0.248	12.42	0	95.4	61.6	147	12.15	2.54	30	D
Tetrachloroethene (PCE)	12.3	0.311	12.42	0.2678	97.1	35.6	158	12.49	1.36	30	D
Surr: Dibromofluoromethane	16.3		15.53		105	56.5	129		0		D
Surr: Toluene-d8	15.3		15.53		98.8	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	16.2		15.53		104	54.8	168		0		D

**Work Order:** 1907267  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID <b>1907267-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>7/19/2019</b>	RunNo: <b>52756</b>					
Client ID: <b>B-958-20</b>	Batch ID: <b>R52756</b>				Analysis Date: <b>7/19/2019</b>	SeqNo: <b>1042127</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	9.11	0.500						8.891	2.41	20	

Sample ID <b>1907267-008ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>			Prep Date: <b>7/19/2019</b>	RunNo: <b>52756</b>					
Client ID: <b>03-21-122-19</b>	Batch ID: <b>R52756</b>				Analysis Date: <b>7/19/2019</b>	SeqNo: <b>1042135</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	12.3	0.500						12.22	0.913	20	

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

Work Order Number: **1907267**  
 Date Received: **7/19/2019 2:33:00 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   
 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	6.8
Sample	7.8

\* 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: 7-19-19 Page: 1 of 2

Project Name: AMERICAN LINEN

Project No: 1413, 50105, 402

Collected by: RTM/KSZ

Location: SEATTLE WA

Report To (PM): B. ONEAL

PM Email: BONEAL@PESSENV.COM

Laboratory Project No (Internal): 1907267

Special Remarks: 1-8: NEXT DAY TAT (MON AM)  
9-10: 3DAY TAT (USED PM)  
SELECT UST: PCB, TCE, 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 135D  
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/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 (C)***	EDB (8011)	Comments
1 B-958-20	7/19/19	0840	S	X													
2 03-21-125-19		1000															
3 03-21-124-21		1007															
4 03-21-124-19		1010															
5 03-21-123-21		1015															
6 03-19-123-18.5		1018															
7 03-21-122-20.5		1025															
8 03-21-122-19		1027															
9 02-17-200-16.5		1355															
10 02-17-201-15.5		1349		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): MICA-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.

Retrieved	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>7/19/19 1433</u>	<u>[Signature]</u>	<u>7/19/19 1433</u>
Retrieved	Date/Time	Received	Date/Time
<u>[Signature]</u>	<u>7/19/19 1433</u>	<u>[Signature]</u>	<u>7/19/19 1433</u>

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 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: 7/19/19 Page: 2 of 2  
Project Name: AMERICAN UNEN

Project No: SEE PG

Collected by: SEE PG

Location: 7

Report To (PM): 7

PM Email: 7

Laboratory Project No (Internal): 19077107

Special Remarks:  
SECRET LIST: PCE, DCE, TCE  
VC  
3 DAY TAT (#1-3)

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

Client: PES ENVIRONMENTAL  
Address: SEE PG  
City, State, Zip: 7  
Telephone: 7  
Fax: 7

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	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 02-17-202-16.5	7/19/19	1342	S														
2 02-17-203-15.5		1346	S														
3 7B-071919		1225	S														
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 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: 7/19/19 1433 Received Date/Time: 7/19/19 1433  
 Relinquished Signature: [Signature] Received Signature: Kayla Pat

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day  
 Same Day (specify) \_\_\_\_\_



3600 Fremont Ave. N.  
Seattle, WA 98103  
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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: 1907391**

July 31, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 7 sample(s) on 7/30/2019 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,

A handwritten signature in blue ink, appearing to read 'Brianna Barnes'.

Brianna Barnes  
Project Manager

**CC:**  
Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 07/31/2019

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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1907391

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1907391-001	02-15-BE-14	07/30/2019 2:00 PM	07/30/2019 4:08 PM
1907391-002	02-15-BE1-14	07/30/2019 1:53 PM	07/30/2019 4:08 PM
1907391-003	02-15-107-14	07/30/2019 2:06 PM	07/30/2019 4:08 PM
1907391-004	02-15-108-14	07/30/2019 2:21 PM	07/30/2019 4:08 PM
1907391-005	02-15-109-14	07/30/2019 2:34 PM	07/30/2019 4:08 PM
1907391-006	02-15-110-14	07/30/2019 2:28 PM	07/30/2019 4:08 PM
1907391-007	02-15-111-14	07/30/2019 2:50 PM	07/30/2019 4:08 PM

**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

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**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.

**Project:** American Linen

**Lab ID:** 1907391-001

**Collection Date:** 7/30/2019 2:00:00 PM

**Client Sample ID:** 02-15-BE-14

**Matrix:** Soil

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

Batch ID: 25338

Analyst: KT

Vinyl chloride	ND	0.277	D	mg/Kg-dry	10	7/31/2019 4:24:36 AM
cis-1,2-Dichloroethene	0.179	0.222	DJ	mg/Kg-dry	10	7/31/2019 4:24:36 AM
Trichloroethene (TCE)	ND	0.222	D	mg/Kg-dry	10	7/31/2019 4:24:36 AM
Tetrachloroethene (PCE)	0.436	0.277	D	mg/Kg-dry	10	7/31/2019 4:24:36 AM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	7/31/2019 4:24:36 AM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	7/31/2019 4:24:36 AM
Surr: 1-Bromo-4-fluorobenzene	94.6	54.8 - 168	D	%Rec	10	7/31/2019 4:24:36 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	15.7	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Lab ID:** 1907391-002

**Collection Date:** 7/30/2019 1:53:00 PM

**Client Sample ID:** 02-15-BE1-14

**Matrix:** Soil

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

Batch ID: 25338

Analyst: KT

Vinyl chloride	ND	0.255	D	mg/Kg-dry	10	7/31/2019 4:54:44 AM
cis-1,2-Dichloroethene	ND	0.204	D	mg/Kg-dry	10	7/31/2019 4:54:44 AM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	7/31/2019 4:54:44 AM
Tetrachloroethene (PCE)	ND	0.255	D	mg/Kg-dry	10	7/31/2019 4:54:44 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 4:54:44 AM
Surr: Toluene-d8	97.4	64.5 - 151	D	%Rec	10	7/31/2019 4:54:44 AM
Surr: 1-Bromo-4-fluorobenzene	94.2	54.8 - 168	D	%Rec	10	7/31/2019 4:54:44 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	14.5	0.500		wt%	1	7/30/2019 4:22:46 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907391-003

**Collection Date:** 7/30/2019 2:06:00 PM

**Client Sample ID:** 02-15-107-14

**Matrix:** Soil

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

Batch ID: 25338

Analyst: KT

Vinyl chloride	ND	0.211	D	mg/Kg-dry	10	7/31/2019 5:24:54 AM
cis-1,2-Dichloroethene	0.232	0.168	D	mg/Kg-dry	10	7/31/2019 5:24:54 AM
Trichloroethene (TCE)	ND	0.168	D	mg/Kg-dry	10	7/31/2019 5:24:54 AM
Tetrachloroethene (PCE)	0.501	0.211	D	mg/Kg-dry	10	7/31/2019 5:24:54 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 5:24:54 AM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	7/31/2019 5:24:54 AM
Surr: 1-Bromo-4-fluorobenzene	95.5	54.8 - 168	D	%Rec	10	7/31/2019 5:24:54 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	12.5	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Lab ID:** 1907391-004

**Collection Date:** 7/30/2019 2:21:00 PM

**Client Sample ID:** 02-15-108-14

**Matrix:** Soil

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

Batch ID: 25338

Analyst: KT

Vinyl chloride	ND	0.274	D	mg/Kg-dry	10	7/31/2019 5:55:05 AM
cis-1,2-Dichloroethene	1.33	0.219	D	mg/Kg-dry	10	7/31/2019 5:55:05 AM
Trichloroethene (TCE)	ND	0.219	D	mg/Kg-dry	10	7/31/2019 5:55:05 AM
Tetrachloroethene (PCE)	0.147	0.274	DJ	mg/Kg-dry	10	7/31/2019 5:55:05 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 5:55:05 AM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	7/31/2019 5:55:05 AM
Surr: 1-Bromo-4-fluorobenzene	93.8	54.8 - 168	D	%Rec	10	7/31/2019 5:55:05 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	13.7	0.500		wt%	1	7/30/2019 4:22:46 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907391-005

**Collection Date:** 7/30/2019 2:34:00 PM

**Client Sample ID:** 02-15-109-14

**Matrix:** Soil

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

Batch ID: 25338

Analyst: KT

Vinyl chloride	ND	0.233	D	mg/Kg-dry	10	7/31/2019 6:25:14 AM
cis-1,2-Dichloroethene	0.654	0.186	D	mg/Kg-dry	10	7/31/2019 6:25:14 AM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	7/31/2019 6:25:14 AM
Tetrachloroethene (PCE)	0.137	0.233	DJ	mg/Kg-dry	10	7/31/2019 6:25:14 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 6:25:14 AM
Surr: Toluene-d8	98.2	64.5 - 151	D	%Rec	10	7/31/2019 6:25:14 AM
Surr: 1-Bromo-4-fluorobenzene	92.9	54.8 - 168	D	%Rec	10	7/31/2019 6:25:14 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	14.6	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Lab ID:** 1907391-006

**Collection Date:** 7/30/2019 2:28:00 PM

**Client Sample ID:** 02-15-110-14

**Matrix:** Soil

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

Batch ID: 25338

Analyst: KT

Vinyl chloride	ND	0.283	D	mg/Kg-dry	10	7/31/2019 6:55:23 AM
cis-1,2-Dichloroethene	ND	0.226	D	mg/Kg-dry	10	7/31/2019 6:55:23 AM
Trichloroethene (TCE)	ND	0.226	D	mg/Kg-dry	10	7/31/2019 6:55:23 AM
Tetrachloroethene (PCE)	ND	0.283	D	mg/Kg-dry	10	7/31/2019 6:55:23 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 6:55:23 AM
Surr: Toluene-d8	98.4	64.5 - 151	D	%Rec	10	7/31/2019 6:55:23 AM
Surr: 1-Bromo-4-fluorobenzene	93.4	54.8 - 168	D	%Rec	10	7/31/2019 6:55:23 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	15.9	0.500		wt%	1	7/30/2019 4:22:46 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907391-007

**Collection Date:** 7/30/2019 2:50:00 PM

**Client Sample ID:** 02-15-111-14

**Matrix:** Soil

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

Batch ID: 25338

Analyst: KT

Vinyl chloride	ND	0.268	D	mg/Kg-dry	10	7/31/2019 7:25:33 AM
cis-1,2-Dichloroethene	ND	0.215	D	mg/Kg-dry	10	7/31/2019 7:25:33 AM
Trichloroethene (TCE)	ND	0.215	D	mg/Kg-dry	10	7/31/2019 7:25:33 AM
Tetrachloroethene (PCE)	ND	0.268	D	mg/Kg-dry	10	7/31/2019 7:25:33 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 7:25:33 AM
Surr: Toluene-d8	98.6	64.5 - 151	D	%Rec	10	7/31/2019 7:25:33 AM
Surr: 1-Bromo-4-fluorobenzene	91.6	54.8 - 168	D	%Rec	10	7/31/2019 7:25:33 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	12.8	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Work Order:** 1907391  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25338</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/30/2019</b>	RunNo: <b>52961</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25338</b>					Analysis Date: <b>7/30/2019</b>	SeqNo: <b>1046424</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.742	0.0250	1.000	0	74.2	43.4	151				
cis-1,2-Dichloroethene	0.980	0.0200	1.000	0	98.0	71.3	135				
Trichloroethene (TCE)	0.979	0.0200	1.000	0	97.9	65.5	137				
Tetrachloroethene (PCE)	1.00	0.0250	1.000	0	100	52.7	150				
Surr: Dibromofluoromethane	1.28		1.250		103	56.5	129				
Surr: Toluene-d8	1.22		1.250		97.4	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		99.9	54.8	168				

Sample ID: <b>MB-25338</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/30/2019</b>	RunNo: <b>52961</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25338</b>					Analysis Date: <b>7/30/2019</b>	SeqNo: <b>1046425</b>				
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	1.30		1.250		104	56.5	129				
Surr: Toluene-d8	1.24		1.250		99.0	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		95.6	54.8	168				

**NOTES:**

Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID: <b>1907353-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg</b>				Prep Date: <b>7/30/2019</b>	RunNo: <b>52961</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>25338</b>					Analysis Date: <b>7/30/2019</b>	SeqNo: <b>1046402</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0222						0	0	30	Q
cis-1,2-Dichloroethene	ND	0.0178						0	0	30	
Trichloroethene (TCE)	ND	0.0178						0	0	30	
Tetrachloroethene (PCE)	ND	0.0222						0	0	30	
Surr: Dibromofluoromethane	1.13		1.111		102	56.5	129		0		

**Work Order:** 1907391  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1907353-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/30/2019</b>	RunNo: <b>52961</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25338</b>		Analysis Date: <b>7/30/2019</b>	SeqNo: <b>1046402</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	1.08		1.111		97.0	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.04		1.111		93.8	54.8	168		0		

**NOTES:**  
Q - Indicates an analyte with a continuing calibration that does not meet established acceptance criteria

Sample ID: <b>1907353-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/30/2019</b>	RunNo: <b>52961</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25338</b>		Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046404</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	0.692	0.0212	0.8462	0	81.7	43.6	150				
cis-1,2-Dichloroethene	0.844	0.0169	0.8462	0	99.8	58.6	136				
Trichloroethene (TCE)	0.773	0.0169	0.8462	0	91.4	61.6	147				
Tetrachloroethene (PCE)	0.849	0.0212	0.8462	0	100	35.6	158				
Surr: Dibromofluoromethane	1.17		1.058		111	56.5	129				
Surr: Toluene-d8	1.06		1.058		100	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.09		1.058		103	54.8	168				

Sample ID: <b>1907353-002BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/30/2019</b>	RunNo: <b>52961</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25338</b>		Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046405</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	0.696	0.0212	0.8462	0	82.3	43.6	150	0.6916	0.688	30	
cis-1,2-Dichloroethene	0.833	0.0169	0.8462	0	98.4	58.6	136	0.8441	1.34	30	
Trichloroethene (TCE)	0.775	0.0169	0.8462	0	91.6	61.6	147	0.7732	0.232	30	
Tetrachloroethene (PCE)	0.859	0.0212	0.8462	0	102	35.6	158	0.8487	1.25	30	
Surr: Dibromofluoromethane	1.17		1.058		111	56.5	129		0		
Surr: Toluene-d8	1.06		1.058		99.8	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.07		1.058		101	54.8	168		0		

**Work Order:** 1907391  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1907391-007BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/30/2019</b>	RunNo: <b>52961</b>							
Client ID: <b>02-15-111-14</b>	Batch ID: <b>25338</b>		Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046420</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.268						0	0	30	D
cis-1,2-Dichloroethene	ND	0.215						0	0	30	D
Trichloroethene (TCE)	ND	0.215						0	0	30	D
Tetrachloroethene (PCE)	ND	0.268						0	0	30	D
Surr: Dibromofluoromethane	13.9		13.41		104	56.5	129		0		D
Surr: Toluene-d8	13.2		13.41		98.6	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.6		13.41		94.1	54.8	168		0		D

**Work Order:** 1907391  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1907391-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/30/2019</b>	RunNo: <b>52957</b>							
Client ID: <b>02-15-109-14</b>	Batch ID: <b>R52957</b>		Analysis Date: <b>7/30/2019</b>	SeqNo: <b>1046365</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.0	0.500						14.56	11.6	20	

Sample ID: <b>1907392-008ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/30/2019</b>	RunNo: <b>52957</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R52957</b>		Analysis Date: <b>7/30/2019</b>	SeqNo: <b>1046376</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.4	0.500						14.03	4.60	20	

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

Work Order Number: **1907391**  
 Date Received: **7/30/2019 4:08:00 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   
 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	9.3
Sample	8.0

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





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: 1907392**

August 01, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 11 sample(s) on 7/30/2019 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:** 1907392

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1907392-001	02-13-107-12	07/30/2019 2:12 PM	07/30/2019 4:08 PM
1907392-002	02-11-107-10	07/30/2019 2:17 PM	07/30/2019 4:08 PM
1907392-003	02-13-108-12	07/30/2019 2:25 PM	07/30/2019 4:08 PM
1907392-004	02-11-108-10	07/30/2019 2:29 PM	07/30/2019 4:08 PM
1907392-005	02-13-109-12	07/30/2019 2:39 PM	07/30/2019 4:08 PM
1907392-006	02-11-109-10	07/30/2019 2:43 PM	07/30/2019 4:08 PM
1907392-007	02-13-110-12	07/30/2019 2:38 PM	07/30/2019 4:08 PM
1907392-008	02-11-110-10	07/30/2019 2:34 PM	07/30/2019 4:08 PM
1907392-009	02-13-111-12	07/30/2019 2:53 PM	07/30/2019 4:08 PM
1907392-010	02-11-111-10	07/30/2019 2:44 PM	07/30/2019 4:08 PM
1907392-011	B-960-10	07/30/2019 1:00 PM	07/30/2019 4:08 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.

**Project:** American Linen

**Lab ID:** 1907392-001

**Collection Date:** 7/30/2019 2:12:00 PM

**Client Sample ID:** 02-13-107-12

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.235	D	mg/Kg-dry	10	7/31/2019 12:32:38 PM
cis-1,2-Dichloroethene	0.281	0.188	D	mg/Kg-dry	10	7/31/2019 12:32:38 PM
Trichloroethene (TCE)	ND	0.188	D	mg/Kg-dry	10	7/31/2019 12:32:38 PM
Tetrachloroethene (PCE)	0.850	0.235	D	mg/Kg-dry	10	7/31/2019 12:32:38 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 12:32:38 PM
Surr: Toluene-d8	96.5	64.5 - 151	D	%Rec	10	7/31/2019 12:32:38 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	54.8 - 168	D	%Rec	10	7/31/2019 12:32:38 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	13.6	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Lab ID:** 1907392-002

**Collection Date:** 7/30/2019 2:17:00 PM

**Client Sample ID:** 02-11-107-10

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.253	D	mg/Kg-dry	10	7/31/2019 1:32:53 PM
cis-1,2-Dichloroethene	0.502	0.202	D	mg/Kg-dry	10	7/31/2019 1:32:53 PM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	7/31/2019 1:32:53 PM
Tetrachloroethene (PCE)	0.254	0.253	D	mg/Kg-dry	10	7/31/2019 1:32:53 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 1:32:53 PM
Surr: Toluene-d8	97.2	64.5 - 151	D	%Rec	10	7/31/2019 1:32:53 PM
Surr: 1-Bromo-4-fluorobenzene	93.9	54.8 - 168	D	%Rec	10	7/31/2019 1:32:53 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	18.1	0.500		wt%	1	7/30/2019 4:22:46 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1907392-003

**Collection Date:** 7/30/2019 2:25:00 PM

**Client Sample ID:** 02-13-108-12

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.273	D	mg/Kg-dry	10	7/31/2019 2:03:00 PM
cis-1,2-Dichloroethene	1.44	0.218	D	mg/Kg-dry	10	7/31/2019 2:03:00 PM
Trichloroethene (TCE)	ND	0.218	D	mg/Kg-dry	10	7/31/2019 2:03:00 PM
Tetrachloroethene (PCE)	0.148	0.273	DJ	mg/Kg-dry	10	7/31/2019 2:03:00 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 2:03:00 PM
Surr: Toluene-d8	95.2	64.5 - 151	D	%Rec	10	7/31/2019 2:03:00 PM
Surr: 1-Bromo-4-fluorobenzene	96.7	54.8 - 168	D	%Rec	10	7/31/2019 2:03:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	17.9	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Lab ID:** 1907392-004

**Collection Date:** 7/30/2019 2:29:00 PM

**Client Sample ID:** 02-11-108-10

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.226	D	mg/Kg-dry	10	7/31/2019 2:33:07 PM
cis-1,2-Dichloroethene	0.885	0.181	D	mg/Kg-dry	10	7/31/2019 2:33:07 PM
Trichloroethene (TCE)	ND	0.181	D	mg/Kg-dry	10	7/31/2019 2:33:07 PM
Tetrachloroethene (PCE)	0.650	0.226	D	mg/Kg-dry	10	7/31/2019 2:33:07 PM
Surr: Dibromofluoromethane	106	56.5 - 129	D	%Rec	10	7/31/2019 2:33:07 PM
Surr: Toluene-d8	94.2	64.5 - 151	D	%Rec	10	7/31/2019 2:33:07 PM
Surr: 1-Bromo-4-fluorobenzene	98.0	54.8 - 168	D	%Rec	10	7/31/2019 2:33:07 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	15.4	0.500		wt%	1	7/30/2019 4:22:46 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907392-005

**Collection Date:** 7/30/2019 2:39:00 PM

**Client Sample ID:** 02-13-109-12

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	7/31/2019 3:03:14 PM
cis-1,2-Dichloroethene	0.202	0.201	D	mg/Kg-dry	10	7/31/2019 3:03:14 PM
Trichloroethene (TCE)	ND	0.201	D	mg/Kg-dry	10	7/31/2019 3:03:14 PM
Tetrachloroethene (PCE)	0.127	0.251	DJ	mg/Kg-dry	10	7/31/2019 3:03:14 PM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	7/31/2019 3:03:14 PM
Surr: Toluene-d8	94.9	64.5 - 151	D	%Rec	10	7/31/2019 3:03:14 PM
Surr: 1-Bromo-4-fluorobenzene	93.4	54.8 - 168	D	%Rec	10	7/31/2019 3:03:14 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	13.2	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Lab ID:** 1907392-006

**Collection Date:** 7/30/2019 2:43:00 PM

**Client Sample ID:** 02-11-109-10

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.278	D	mg/Kg-dry	10	7/31/2019 3:33:21 PM
cis-1,2-Dichloroethene	0.234	0.223	D	mg/Kg-dry	10	7/31/2019 3:33:21 PM
Trichloroethene (TCE)	ND	0.223	D	mg/Kg-dry	10	7/31/2019 3:33:21 PM
Tetrachloroethene (PCE)	0.222	0.278	DJ	mg/Kg-dry	10	7/31/2019 3:33:21 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	7/31/2019 3:33:21 PM
Surr: Toluene-d8	96.1	64.5 - 151	D	%Rec	10	7/31/2019 3:33:21 PM
Surr: 1-Bromo-4-fluorobenzene	94.0	54.8 - 168	D	%Rec	10	7/31/2019 3:33:21 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	14.7	0.500		wt%	1	7/30/2019 4:22:46 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1907392-007

**Collection Date:** 7/30/2019 2:38:00 PM

**Client Sample ID:** 02-13-110-12

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	7/31/2019 4:03:28 PM
cis-1,2-Dichloroethene	0.102	0.200	DJ	mg/Kg-dry	10	7/31/2019 4:03:28 PM
Trichloroethene (TCE)	ND	0.200	D	mg/Kg-dry	10	7/31/2019 4:03:28 PM
Tetrachloroethene (PCE)	0.248	0.251	DJ	mg/Kg-dry	10	7/31/2019 4:03:28 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	7/31/2019 4:03:28 PM
Surr: Toluene-d8	96.2	64.5 - 151	D	%Rec	10	7/31/2019 4:03:28 PM
Surr: 1-Bromo-4-fluorobenzene	94.7	54.8 - 168	D	%Rec	10	7/31/2019 4:03:28 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	13.9	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Lab ID:** 1907392-008

**Collection Date:** 7/30/2019 2:34:00 PM

**Client Sample ID:** 02-11-110-10

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.252	D	mg/Kg-dry	10	7/31/2019 4:33:37 PM
cis-1,2-Dichloroethene	ND	0.202	D	mg/Kg-dry	10	7/31/2019 4:33:37 PM
Trichloroethene (TCE)	ND	0.202	D	mg/Kg-dry	10	7/31/2019 4:33:37 PM
Tetrachloroethene (PCE)	ND	0.252	D	mg/Kg-dry	10	7/31/2019 4:33:37 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	7/31/2019 4:33:37 PM
Surr: Toluene-d8	95.1	64.5 - 151	D	%Rec	10	7/31/2019 4:33:37 PM
Surr: 1-Bromo-4-fluorobenzene	94.2	54.8 - 168	D	%Rec	10	7/31/2019 4:33:37 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	14.0	0.500		wt%	1	7/30/2019 4:22:46 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907392-009

**Collection Date:** 7/30/2019 2:53:00 PM

**Client Sample ID:** 02-13-111-12

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.275	D	mg/Kg-dry	10	7/31/2019 5:03:44 PM
cis-1,2-Dichloroethene	ND	0.220	D	mg/Kg-dry	10	7/31/2019 5:03:44 PM
Trichloroethene (TCE)	ND	0.220	D	mg/Kg-dry	10	7/31/2019 5:03:44 PM
Tetrachloroethene (PCE)	ND	0.275	D	mg/Kg-dry	10	7/31/2019 5:03:44 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	7/31/2019 5:03:44 PM
Surr: Toluene-d8	96.0	64.5 - 151	D	%Rec	10	7/31/2019 5:03:44 PM
Surr: 1-Bromo-4-fluorobenzene	95.1	54.8 - 168	D	%Rec	10	7/31/2019 5:03:44 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	15.3	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Lab ID:** 1907392-010

**Collection Date:** 7/30/2019 2:44:00 PM

**Client Sample ID:** 02-11-111-10

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.251	D	mg/Kg-dry	10	7/31/2019 5:33:52 PM
cis-1,2-Dichloroethene	ND	0.201	D	mg/Kg-dry	10	7/31/2019 5:33:52 PM
Trichloroethene (TCE)	ND	0.201	D	mg/Kg-dry	10	7/31/2019 5:33:52 PM
Tetrachloroethene (PCE)	ND	0.251	D	mg/Kg-dry	10	7/31/2019 5:33:52 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	7/31/2019 5:33:52 PM
Surr: Toluene-d8	94.8	64.5 - 151	D	%Rec	10	7/31/2019 5:33:52 PM
Surr: 1-Bromo-4-fluorobenzene	93.6	54.8 - 168	D	%Rec	10	7/31/2019 5:33:52 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	12.5	0.500		wt%	1	7/30/2019 4:22:46 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1907392-011

**Collection Date:** 7/30/2019 1:00:00 PM

**Client Sample ID:** B-960-10

**Matrix:** Soil

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

Batch ID: 25348

Analyst: KT

Vinyl chloride	ND	0.259	D	mg/Kg-dry	10	7/31/2019 6:04:01 PM
cis-1,2-Dichloroethene	ND	0.207	D	mg/Kg-dry	10	7/31/2019 6:04:01 PM
Trichloroethene (TCE)	ND	0.207	D	mg/Kg-dry	10	7/31/2019 6:04:01 PM
Tetrachloroethene (PCE)	ND	0.259	D	mg/Kg-dry	10	7/31/2019 6:04:01 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	7/31/2019 6:04:01 PM
Surr: Toluene-d8	95.0	64.5 - 151	D	%Rec	10	7/31/2019 6:04:01 PM
Surr: 1-Bromo-4-fluorobenzene	94.5	54.8 - 168	D	%Rec	10	7/31/2019 6:04:01 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52957

Analyst: KP

Percent Moisture	12.0	0.500		wt%	1	7/30/2019 4:22:46 PM
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**Work Order:** 1907392  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25348</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>7/31/2019</b>	RunNo: <b>52989</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>25348</b>				Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046924</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.785	0.0250	1.000	0	78.5	43.4	151				
cis-1,2-Dichloroethene	0.974	0.0200	1.000	0	97.4	71.3	135				
Trichloroethene (TCE)	0.962	0.0200	1.000	0	96.2	65.5	137				
Tetrachloroethene (PCE)	1.05	0.0250	1.000	0	105	52.7	150				
Surr: Dibromofluoromethane	1.33		1.250		106	56.5	129				
Surr: Toluene-d8	1.21		1.250		96.7	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168				

Sample ID: <b>MB-25348</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>7/31/2019</b>	RunNo: <b>52989</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>25348</b>				Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046926</b>					
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		102	56.5	129				
Surr: Toluene-d8	1.21		1.250		97.0	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.19		1.250		95.1	54.8	168				

Sample ID: <b>1907392-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>7/31/2019</b>	RunNo: <b>52989</b>					
Client ID: <b>02-13-107-12</b>	Batch ID: <b>25348</b>				Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046905</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.235						0	0	30	D
cis-1,2-Dichloroethene	0.331	0.188						0.2810	16.3	30	D
Trichloroethene (TCE)	ND	0.188						0	0	30	D
Tetrachloroethene (PCE)	0.892	0.235						0.8502	4.74	30	D
Surr: Dibromofluoromethane	11.9		11.74		101	56.5	129		0		D
Surr: Toluene-d8	11.2		11.74		95.0	64.5	151		0		D

**Work Order:** 1907392  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1907392-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/31/2019</b>	RunNo: <b>52989</b>							
Client ID: <b>02-13-107-12</b>	Batch ID: <b>25348</b>		Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046905</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	11.1		11.74		94.3	54.8	168		0		D
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Sample ID: <b>1907392-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/31/2019</b>	RunNo: <b>52989</b>							
Client ID: <b>02-11-107-10</b>	Batch ID: <b>25348</b>		Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046907</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	8.07	0.253	10.12	0	79.7	43.6	150				D
cis-1,2-Dichloroethene	10.5	0.202	10.12	0.5024	99.2	58.6	136				D
Trichloroethene (TCE)	10.3	0.202	10.12	0	102	61.6	147				D
Tetrachloroethene (PCE)	11.1	0.253	10.12	0.2537	107	35.6	158				D
Surr: Dibromofluoromethane	13.4		12.65		106	56.5	129				D
Surr: Toluene-d8	12.5		12.65		98.5	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	13.0		12.65		103	54.8	168				D

Sample ID: <b>1907392-002BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/31/2019</b>	RunNo: <b>52989</b>							
Client ID: <b>02-11-107-10</b>	Batch ID: <b>25348</b>		Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046908</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	7.75	0.253	10.12	0	76.6	43.6	150	8.066	4.05	30	D
cis-1,2-Dichloroethene	10.1	0.202	10.12	0.5024	94.8	58.6	136	10.54	4.30	30	D
Trichloroethene (TCE)	9.87	0.202	10.12	0	97.6	61.6	147	10.33	4.54	30	D
Tetrachloroethene (PCE)	10.6	0.253	10.12	0.2537	102	35.6	158	11.11	4.98	30	D
Surr: Dibromofluoromethane	13.2		12.65		105	56.5	129		0		D
Surr: Toluene-d8	12.5		12.65		98.6	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.0		12.65		103	54.8	168		0		D

**Work Order:** 1907392  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1907365-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/31/2019</b>	RunNo: <b>52989</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25348</b>		Analysis Date: <b>7/31/2019</b>	SeqNo: <b>1046899</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.0247						0	0	30	
cis-1,2-Dichloroethene	ND	0.0198						0	0	30	
Trichloroethene (TCE)	ND	0.0198						0	0	30	
Tetrachloroethene (PCE)	ND	0.0247						0	0	30	
Surr: Dibromofluoromethane	1.23		1.237		99.7	56.5	129		0		
Surr: Toluene-d8	1.15		1.237		93.4	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.16		1.237		94.1	54.8	168		0		

**Work Order:** 1907392  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1907391-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/30/2019</b>	RunNo: <b>52957</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R52957</b>		Analysis Date: <b>7/30/2019</b>	SeqNo: <b>1046365</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.0	0.500						14.56	11.6	20	

Sample ID: <b>1907392-008ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/30/2019</b>	RunNo: <b>52957</b>							
Client ID: <b>02-11-110-10</b>	Batch ID: <b>R52957</b>		Analysis Date: <b>7/30/2019</b>	SeqNo: <b>1046376</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.4	0.500						14.03	4.60	20	

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

Work Order Number: **1907392**  
 Date Received: **7/30/2019 4:08:00 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   
 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler	9.3
Sample	8.0

\* 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: 7/30/19 Page: 1 of 2

Project Name: American Linen

Project No: 1413.001.05.A02

Collected by: H. Cohen / K. Zygas

Location: Seattle WA

Report To (PM): B. O'Neal

PM Email: BOVEAL@PSENV.COM

Laboratory Project No (Internal):

Special Remarks: SELECT LIST: PCE, TCE, CIS, DCE, VC

1907292

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)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heavy Oil Range Organics (DHI)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) / Dissolved (D)	Anions (C)***	EDB (801)	Comments
1 02-13-107-12	7/30/19	1412	S	X													
2 02-11-107-10		1417		X													
3 02-13-108-12		1425		X													
4 02-11-108-10		1429		X													
5 02-13-109-12		1439		X													
6 02-11-109-10		1443		X													
7 02-13-110-12		1438		X													
8 02-11-110-10		1434		X													
9 02-13-111-12		1453		X													
10 02-11-111-10		1444		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 Sp 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: 7/30/19 16:08 Received Date/Time: 7/30/19 16:08

Relinquished Date/Time: Received Date/Time:

Same Day  Next Day  2 Day  3 Day  Standard

Turn-around Time: (specify)



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

### 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: 7/30/19 Page: 2 of 2  
Project Name: American linen  
Project No: 1413.001.05.402  
Collected by: H. Cohen/K. Zygas  
Location: Seattle WA  
Report To (PM): B. Dineal  
PM Email: BONEAL@PESENV.COM

Laboratory Project No (Internal): 1907392  
Special Remarks: SELECT LIST: PCE, TCE, CIS, DCE, 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 (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 (C)***	EDB (8011)	Comments
1 B-960-10	7/30/19	1300	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): MTCAs-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 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: [Signature] Date/Time: 7/30/19 1608  
 Received: [Signature] Date/Time: 7/30/19 1608  
 Relinquished: [Signature] Date/Time: 7/30/19 1608  
 Received: [Signature] Date/Time: 7/30/19 1608  
 Turn-around Time:  Standard  2 Day  3 Day  Next Day  Same Day (specify) \_\_\_\_\_  
 www.fremontanalytical.com



3600 Fremont Ave. N.  
Seattle, WA 98103  
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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: 1908002**

August 01, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 4 sample(s) on 8/1/2019 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:** 1908002

---

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
1908002-001	02-15-204-14.5	08/01/2019 7:45 AM	08/01/2019 9:06 AM
1908002-002	02-15-202-13.5	08/01/2019 7:55 AM	08/01/2019 9:06 AM
1908002-003	02-15-203-13.5	08/01/2019 8:05 AM	08/01/2019 9:06 AM
1908002-004	02-15-205-14.5	08/01/2019 8:13 AM	08/01/2019 9:06 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



**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908002-001

**Collection Date:** 8/1/2019 7:45:00 AM

**Client Sample ID:** 02-15-204-14.5

**Matrix:** Soil

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

Batch ID: 25367

Analyst: KT

Vinyl chloride	ND	0.311	D	mg/Kg-dry	10	8/1/2019 12:46:36 PM
cis-1,2-Dichloroethene	ND	0.249	D	mg/Kg-dry	10	8/1/2019 12:46:36 PM
Trichloroethene (TCE)	ND	0.249	D	mg/Kg-dry	10	8/1/2019 12:46:36 PM
Tetrachloroethene (PCE)	0.748	0.311	D	mg/Kg-dry	10	8/1/2019 12:46:36 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	8/1/2019 12:46:36 PM
Surr: Toluene-d8	97.2	64.5 - 151	D	%Rec	10	8/1/2019 12:46:36 PM
Surr: 1-Bromo-4-fluorobenzene	96.6	54.8 - 168	D	%Rec	10	8/1/2019 12:46:36 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52994

Analyst: WC

Percent Moisture	18.4	0.500		wt%	1	8/1/2019 9:49:44 AM
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**Lab ID:** 1908002-002

**Collection Date:** 8/1/2019 7:55:00 AM

**Client Sample ID:** 02-15-202-13.5

**Matrix:** Soil

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

Batch ID: 25367

Analyst: KT

Vinyl chloride	ND	0.230	D	mg/Kg-dry	10	8/1/2019 1:46:50 PM
cis-1,2-Dichloroethene	ND	0.184	D	mg/Kg-dry	10	8/1/2019 1:46:50 PM
Trichloroethene (TCE)	ND	0.184	D	mg/Kg-dry	10	8/1/2019 1:46:50 PM
Tetrachloroethene (PCE)	0.196	0.230	DJ	mg/Kg-dry	10	8/1/2019 1:46:50 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	8/1/2019 1:46:50 PM
Surr: Toluene-d8	97.0	64.5 - 151	D	%Rec	10	8/1/2019 1:46:50 PM
Surr: 1-Bromo-4-fluorobenzene	96.5	54.8 - 168	D	%Rec	10	8/1/2019 1:46:50 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52994

Analyst: WC

Percent Moisture	12.2	0.500		wt%	1	8/1/2019 9:49:44 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908002-003

**Collection Date:** 8/1/2019 8:05:00 AM

**Client Sample ID:** 02-15-203-13.5

**Matrix:** Soil

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

Batch ID: 25367

Analyst: KT

Vinyl chloride	ND	0.258	D	mg/Kg-dry	10	8/1/2019 2:16:57 PM
cis-1,2-Dichloroethene	ND	0.207	D	mg/Kg-dry	10	8/1/2019 2:16:57 PM
Trichloroethene (TCE)	ND	0.207	D	mg/Kg-dry	10	8/1/2019 2:16:57 PM
Tetrachloroethene (PCE)	ND	0.258	D	mg/Kg-dry	10	8/1/2019 2:16:57 PM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	8/1/2019 2:16:57 PM
Surr: Toluene-d8	94.9	64.5 - 151	D	%Rec	10	8/1/2019 2:16:57 PM
Surr: 1-Bromo-4-fluorobenzene	95.6	54.8 - 168	D	%Rec	10	8/1/2019 2:16:57 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52994

Analyst: WC

Percent Moisture	16.2	0.500		wt%	1	8/1/2019 9:49:44 AM
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**Lab ID:** 1908002-004

**Collection Date:** 8/1/2019 8:13:00 AM

**Client Sample ID:** 02-15-205-14.5

**Matrix:** Soil

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

Batch ID: 25367

Analyst: KT

Vinyl chloride	ND	0.268	D	mg/Kg-dry	10	8/1/2019 2:47:03 PM
cis-1,2-Dichloroethene	ND	0.214	D	mg/Kg-dry	10	8/1/2019 2:47:03 PM
Trichloroethene (TCE)	ND	0.214	D	mg/Kg-dry	10	8/1/2019 2:47:03 PM
Tetrachloroethene (PCE)	0.226	0.268	DJ	mg/Kg-dry	10	8/1/2019 2:47:03 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	8/1/2019 2:47:03 PM
Surr: Toluene-d8	95.2	64.5 - 151	D	%Rec	10	8/1/2019 2:47:03 PM
Surr: 1-Bromo-4-fluorobenzene	96.9	54.8 - 168	D	%Rec	10	8/1/2019 2:47:03 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R52994

Analyst: WC

Percent Moisture	12.9	0.500		wt%	1	8/1/2019 9:49:44 AM
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**Work Order:** 1908002  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>LCS-25367</b>		SampType: <b>LCS</b>		Units: <b>mg/Kg</b>		Prep Date: <b>8/1/2019</b>		RunNo: <b>53007</b>			
Client ID: <b>LCSS</b>		Batch ID: <b>25367</b>				Analysis Date: <b>8/1/2019</b>		SeqNo: <b>1047259</b>			
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	1.04	0.0200	1.000	0	104	71.3	135				
Trichloroethene (TCE)	1.00	0.0200	1.000	0	100	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.36		1.250		109	56.5	129				
Surr: Toluene-d8	1.25		1.250		100	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168				

Sample ID <b>LCSD-25367</b>		SampType: <b>LCSD</b>		Units: <b>mg/Kg</b>		Prep Date: <b>8/1/2019</b>		RunNo: <b>53007</b>			
Client ID: <b>LCSS02</b>		Batch ID: <b>25367</b>				Analysis Date: <b>8/1/2019</b>		SeqNo: <b>1047261</b>			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.926	0.0250	1.000	0	92.6	43.4	151	1.004	8.10	20	
cis-1,2-Dichloroethene	0.983	0.0200	1.000	0	98.3	71.6	123	1.037	5.32	20	
Trichloroethene (TCE)	0.980	0.0200	1.000	0	98.0	65.5	137	1.003	2.32	20	
Tetrachloroethene (PCE)	1.03	0.0250	1.000	0	103	52.7	150	1.065	3.04	20	
Surr: Dibromofluoromethane	1.32		1.250		106	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		102	54.8	168		0		

Sample ID <b>MB-25367</b>		SampType: <b>MBLK</b>		Units: <b>mg/Kg</b>		Prep Date: <b>8/1/2019</b>		RunNo: <b>53007</b>			
Client ID: <b>MBLKS</b>		Batch ID: <b>25367</b>				Analysis Date: <b>8/1/2019</b>		SeqNo: <b>1047263</b>			
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	1.21		1.250		96.8	64.5	151				

**Work Order:** 1908002  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>MB-25367</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/1/2019</b>	RunNo: <b>53007</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25367</b>		Analysis Date: <b>8/1/2019</b>	SeqNo: <b>1047263</b>							
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	94.9	54.8	168
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Sample ID <b>1908002-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/1/2019</b>	RunNo: <b>53007</b>							
Client ID: <b>02-15-204-14.5</b>	Batch ID: <b>25367</b>		Analysis Date: <b>8/1/2019</b>	SeqNo: <b>1047251</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.311	0	0	30	D
cis-1,2-Dichloroethene	ND	0.249	0	0	30	D
Trichloroethene (TCE)	ND	0.249	0	0	30	D
Tetrachloroethene (PCE)	0.781	0.311	0.7477	4.34	30	D
Surr: Dibromofluoromethane	16.1	15.54	104	56.5	129	D
Surr: Toluene-d8	15.0	15.54	96.6	64.5	151	D
Surr: 1-Bromo-4-fluorobenzene	15.3	15.54	98.4	54.8	168	D



**Work Order:** 1908002  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID	<b>1908002-002ADUP</b>	SampType:	<b>DUP</b>	Units:	<b>wt%</b>	Prep Date:	<b>8/1/2019</b>	RunNo:	<b>52994</b>		
Client ID:	<b>02-15-202-13.5</b>	Batch ID:	<b>R52994</b>			Analysis Date:	<b>8/1/2019</b>	SeqNo:	<b>1046975</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	12.9	0.500						12.18	5.60	20	

Client Name: **PES**  
 Logged by: **Carissa True**

 Work Order Number: **1908002**  
 Date Received: **8/1/2019 9:06:00 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
- Sample 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:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C
Cooler 1	8.7
Sample 1	13.5

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





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: 1908059**

August 07, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 5 sample(s) on 8/6/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**  
Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 08/07/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1908059

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908059-001	02-13-202-12.5	08/06/2019 8:15 AM	08/06/2019 9:00 AM
1908059-002	02-13-203-11.5	08/06/2019 8:10 AM	08/06/2019 9:00 AM
1908059-003	02-13-204-11.5	08/06/2019 8:04 AM	08/06/2019 9:00 AM
1908059-004	02-13-205-12.5	08/06/2019 8:00 AM	08/06/2019 9:00 AM
1908059-005	TB-080619	08/06/2019 7:00 AM	08/06/2019 9:00 AM

**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

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**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.

**Project:** American Linen

**Lab ID:** 1908059-001

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

**Client Sample ID:** 02-13-202-12.5

**Matrix:** Soil

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

Batch ID: 25393

Analyst: KT

Vinyl chloride	ND	0.256	D	mg/Kg-dry	10	8/6/2019 10:47:15 PM
cis-1,2-Dichloroethene	ND	0.205	D	mg/Kg-dry	10	8/6/2019 10:47:15 PM
Trichloroethene (TCE)	ND	0.205	D	mg/Kg-dry	10	8/6/2019 10:47:15 PM
Tetrachloroethene (PCE)	0.242	0.256	DJ	mg/Kg-dry	10	8/6/2019 10:47:15 PM
Surr: Dibromofluoromethane	99.9	56.5 - 129	D	%Rec	10	8/6/2019 10:47:15 PM
Surr: Toluene-d8	97.7	64.5 - 151	D	%Rec	10	8/6/2019 10:47:15 PM
Surr: 1-Bromo-4-fluorobenzene	95.5	54.8 - 168	D	%Rec	10	8/6/2019 10:47:15 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53068

Analyst: CJ

Percent Moisture	15.5	0.500		wt%	1	8/6/2019 2:32:12 PM
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**Lab ID:** 1908059-002

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

**Client Sample ID:** 02-13-203-11.5

**Matrix:** Soil

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

Batch ID: 25393

Analyst: KT

Vinyl chloride	ND	0.238	D	mg/Kg-dry	10	8/6/2019 11:47:32 PM
cis-1,2-Dichloroethene	ND	0.190	D	mg/Kg-dry	10	8/6/2019 11:47:32 PM
Trichloroethene (TCE)	ND	0.190	D	mg/Kg-dry	10	8/6/2019 11:47:32 PM
Tetrachloroethene (PCE)	0.247	0.238	D	mg/Kg-dry	10	8/6/2019 11:47:32 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	8/6/2019 11:47:32 PM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	8/6/2019 11:47:32 PM
Surr: 1-Bromo-4-fluorobenzene	95.7	54.8 - 168	D	%Rec	10	8/6/2019 11:47:32 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53068

Analyst: CJ

Percent Moisture	16.8	0.500		wt%	1	8/6/2019 2:32:12 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908059-003

**Collection Date:** 8/6/2019 8:04:00 AM

**Client Sample ID:** 02-13-204-11.5

**Matrix:** Soil

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

Batch ID: 25393

Analyst: KT

Vinyl chloride	ND	0.245	D	mg/Kg-dry	10	8/7/2019 12:17:41 AM
cis-1,2-Dichloroethene	ND	0.196	D	mg/Kg-dry	10	8/7/2019 12:17:41 AM
Trichloroethene (TCE)	ND	0.196	D	mg/Kg-dry	10	8/7/2019 12:17:41 AM
Tetrachloroethene (PCE)	0.140	0.245	DJ	mg/Kg-dry	10	8/7/2019 12:17:41 AM
Surr: Dibromofluoromethane	99.7	56.5 - 129	D	%Rec	10	8/7/2019 12:17:41 AM
Surr: Toluene-d8	97.5	64.5 - 151	D	%Rec	10	8/7/2019 12:17:41 AM
Surr: 1-Bromo-4-fluorobenzene	95.9	54.8 - 168	D	%Rec	10	8/7/2019 12:17:41 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53068

Analyst: CJ

Percent Moisture	18.8	0.500		wt%	1	8/6/2019 2:32:12 PM
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**Lab ID:** 1908059-004

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

**Client Sample ID:** 02-13-205-12.5

**Matrix:** Soil

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

Batch ID: 25393

Analyst: KT

Vinyl chloride	ND	0.303	D	mg/Kg-dry	10	8/7/2019 12:47:48 AM
cis-1,2-Dichloroethene	ND	0.243	D	mg/Kg-dry	10	8/7/2019 12:47:48 AM
Trichloroethene (TCE)	ND	0.243	D	mg/Kg-dry	10	8/7/2019 12:47:48 AM
Tetrachloroethene (PCE)	0.390	0.303	D	mg/Kg-dry	10	8/7/2019 12:47:48 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	8/7/2019 12:47:48 AM
Surr: Toluene-d8	98.5	64.5 - 151	D	%Rec	10	8/7/2019 12:47:48 AM
Surr: 1-Bromo-4-fluorobenzene	96.2	54.8 - 168	D	%Rec	10	8/7/2019 12:47:48 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53068

Analyst: CJ

Percent Moisture	18.7	0.500		wt%	1	8/6/2019 2:32:12 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908059-005

**Collection Date:** 8/6/2019 7:00:00 AM

**Client Sample ID:** TB-080619

**Matrix:** Soil

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

Batch ID: 25393

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	8/6/2019 10:17:05 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/6/2019 10:17:05 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/6/2019 10:17:05 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/6/2019 10:17:05 PM
Surr: Dibromofluoromethane	100	56.5 - 129		%Rec	1	8/6/2019 10:17:05 PM
Surr: Toluene-d8	98.9	64.5 - 151		%Rec	1	8/6/2019 10:17:05 PM
Surr: 1-Bromo-4-fluorobenzene	96.9	54.8 - 168		%Rec	1	8/6/2019 10:17:05 PM

**Work Order:** 1908059  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID <b>LCS-25393</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>8/6/2019</b>	RunNo: <b>53082</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25393</b>					Analysis Date: <b>8/6/2019</b>	SeqNo: <b>1048825</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.966	0.0250	1.000	0	96.6	43.4	151				
cis-1,2-Dichloroethene	0.995	0.0200	1.000	0	99.5	71.3	135				
Trichloroethene (TCE)	0.989	0.0200	1.000	0	98.9	65.5	137				
Tetrachloroethene (PCE)	0.983	0.0250	1.000	0	98.3	52.7	150				
Surr: Dibromofluoromethane	1.26		1.250		101	56.5	129				
Surr: Toluene-d8	1.26		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		102	54.8	168				

Sample ID <b>LCSD-25393</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>				Prep Date: <b>8/6/2019</b>	RunNo: <b>53082</b>				
Client ID: <b>LCSS02</b>	Batch ID: <b>25393</b>					Analysis Date: <b>8/6/2019</b>	SeqNo: <b>1048826</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	0.905	0.0250	1.000	0	90.5	43.4	151	0.9655	6.48	20	
cis-1,2-Dichloroethene	0.974	0.0200	1.000	0	97.4	71.6	123	0.9953	2.18	20	
Trichloroethene (TCE)	0.934	0.0200	1.000	0	93.4	65.5	137	0.9892	5.76	20	
Tetrachloroethene (PCE)	0.945	0.0250	1.000	0	94.5	52.7	150	0.9833	3.93	20	
Surr: Dibromofluoromethane	1.25		1.250		99.6	56.5	129		0		
Surr: Toluene-d8	1.24		1.250		99.3	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	1.29		1.250		103	54.8	168		0		

Sample ID <b>MB-25393</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>8/6/2019</b>	RunNo: <b>53082</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25393</b>					Analysis Date: <b>8/6/2019</b>	SeqNo: <b>1048827</b>				
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		99.2	56.5	129				
Surr: Toluene-d8	1.23		1.250		98.2	64.5	151				

Work Order: 1908059  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID <b>MB-25393</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/6/2019</b>	RunNo: <b>53082</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25393</b>		Analysis Date: <b>8/6/2019</b>	SeqNo: <b>1048827</b>							
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      96.4      54.8      168

Sample ID <b>1908059-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/6/2019</b>	RunNo: <b>53082</b>							
Client ID: <b>02-13-202-12.5</b>	Batch ID: <b>25393</b>		Analysis Date: <b>8/6/2019</b>	SeqNo: <b>1048817</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.256						0	0	30	D
cis-1,2-Dichloroethene	ND	0.205						0	0	30	D
Trichloroethene (TCE)	ND	0.205						0	0	30	D
Tetrachloroethene (PCE)	0.134	0.256						0.2417	57.1	30	DJ
Surr: Dibromofluoromethane	12.8		12.80		100	56.5	129		0		D
Surr: Toluene-d8	12.5		12.80		97.8	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.3		12.80		96.1	54.8	168		0		D

Sample ID <b>1907396-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/6/2019</b>	RunNo: <b>53082</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25393</b>		Analysis Date: <b>8/7/2019</b>	SeqNo: <b>1048809</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.0421						0	0	30	
cis-1,2-Dichloroethene	ND	0.0337						0	0	30	
Trichloroethene (TCE)	ND	0.0337						0	0	30	
Tetrachloroethene (PCE)	ND	0.0421						0	0	30	
Surr: Dibromofluoromethane	2.10		2.104		99.6	56.5	129		0		
Surr: Toluene-d8	2.07		2.104		98.3	64.5	151		0		
Surr: 1-Bromo-4-fluorobenzene	2.03		2.104		96.7	54.8	168		0		

**Work Order:** 1908059  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID <b>1908065-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/6/2019</b>	RunNo: <b>53068</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R53068</b>		Analysis Date: <b>8/6/2019</b>	SeqNo: <b>1048532</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.0	0.500						13.86	6.62	20	

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

Work Order Number: **1908059**  
 Date Received: **8/6/2019 9:00:00 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

### 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	4.5
Sample	20.2

\* 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: 08-06-19 Page: 1 of: 1

Project Name: AMERICAN LIVER

Project No: 1413.001.05.402

Collected by: K. ZYGAS / R. McLaughlin

Location: Seattle, WA

Report To (PM): B. O'NEAL

PM Email: BOONEAL@PSENV.COM, KVIKE@PSENV.COM, KSPRINGSTEAD@PSENV.COM

Laboratory Project No (Internal): 190805A

Special Remarks:  
Select LSR: PCE, TCE, CAS-12, 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 (HCD)	Diesel/Heavy Oil Range Organics (DHI)	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)	Comments
1 02-13-202-12.5	8/6/19	0815	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
2 02-13-203-11.5		0810	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
3 02-13-204-11.5		0804	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
4 02-13-205-12.5		0800	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
5 TB-080619		0700	S	X	X	X	X	X	X	X	X	X	X	X	X	X	
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 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: 8/6/19 0900 Received Date/Time: 8/6/19 0900  
Relinquished Date/Time: 8/6/19 0900 Received Date/Time: 8/6/19 0900

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day (A.M.)  
Same Day (specify) \_\_\_\_\_



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: 1908118**

August 12, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 25 sample(s) on 8/8/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 08/12/2019

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1908118

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908118-001	03-19-202-18.5	08/08/2019 7:35 AM	08/08/2019 2:09 PM
1908118-002	03-19-203-17.5	08/08/2019 7:40 AM	08/08/2019 2:09 PM
1908118-003	03-19-206-17.5	08/08/2019 8:00 AM	08/08/2019 2:09 PM
1908118-004	03-19-207-18	08/08/2019 8:05 AM	08/08/2019 2:09 PM
1908118-005	02-09-109-08	08/08/2019 9:45 AM	08/08/2019 2:09 PM
1908118-006	02-09-108-08	08/08/2019 9:55 AM	08/08/2019 2:09 PM
1908118-007	02-09-107-08	08/08/2019 10:05 AM	08/08/2019 2:09 PM
1908118-008	02-09-110-08	08/08/2019 10:25 AM	08/08/2019 2:09 PM
1908118-009	02-09-111-08	08/08/2019 10:45 AM	08/08/2019 2:09 PM
1908118-010	02-07-109-06	08/08/2019 9:48 AM	08/08/2019 2:09 PM
1908118-011	02-07-108-06	08/08/2019 10:03 AM	08/08/2019 2:09 PM
1908118-012	02-07-110-06	08/08/2019 10:30 AM	08/08/2019 2:09 PM
1908118-013	TB-080819	08/08/2019 11:15 AM	08/08/2019 2:09 PM
1908118-014	B-961-15	08/08/2019 9:00 AM	08/08/2019 2:09 PM
1908118-015	02-09-118-08	08/08/2019 12:45 PM	08/08/2019 2:09 PM
1908118-016	02-09-119-08	08/08/2019 12:50 PM	08/08/2019 2:09 PM
1908118-017	02-09-120-08	08/08/2019 1:00 PM	08/08/2019 2:09 PM
1908118-018	02-09-121-08	08/08/2019 1:11 PM	08/08/2019 2:09 PM
1908118-019	TB-080819-2	08/08/2019 2:00 PM	08/08/2019 2:09 PM
1908118-020	02-07-111-06	08/08/2019 12:30 PM	08/08/2019 2:09 PM
1908118-021	02-07-107-06	08/08/2019 12:20 PM	08/08/2019 2:09 PM
1908118-022	02-07-118-06	08/08/2019 12:48 PM	08/08/2019 2:09 PM
1908118-023	02-07-119-06	08/08/2019 12:53 PM	08/08/2019 2:09 PM
1908118-024	02-07-120-06	08/08/2019 1:05 PM	08/08/2019 2:09 PM
1908118-025	02-07-121-06	08/08/2019 1:15 PM	08/08/2019 2:09 PM

**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

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**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.

8/12/19: Revision 1 includes data for additional samples.



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.

**Project:** American Linen

**Lab ID:** 1908118-001

**Collection Date:** 8/8/2019 7:35:00 AM

**Client Sample ID:** 03-19-202-18.5

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.206	D	mg/Kg-dry	10	8/8/2019 7:00:16 PM
cis-1,2-Dichloroethene	ND	0.165	D	mg/Kg-dry	10	8/8/2019 7:00:16 PM
Trichloroethene (TCE)	0.0247	0.165	DJ	mg/Kg-dry	10	8/8/2019 7:00:16 PM
Tetrachloroethene (PCE)	1.94	0.206	D	mg/Kg-dry	10	8/8/2019 7:00:16 PM
Surr: Dibromofluoromethane	95.1	56.5 - 129	D	%Rec	10	8/8/2019 7:00:16 PM
Surr: Toluene-d8	93.4	64.5 - 151	D	%Rec	10	8/8/2019 7:00:16 PM
Surr: 1-Bromo-4-fluorobenzene	98.6	54.8 - 168	D	%Rec	10	8/8/2019 7:00:16 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	13.1	0.500		wt%	1	8/8/2019 1:48:32 PM
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**Lab ID:** 1908118-002

**Collection Date:** 8/8/2019 7:40:00 AM

**Client Sample ID:** 03-19-203-17.5

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.243	D	mg/Kg-dry	10	8/8/2019 8:00:31 PM
cis-1,2-Dichloroethene	ND	0.195	D	mg/Kg-dry	10	8/8/2019 8:00:31 PM
Trichloroethene (TCE)	ND	0.195	D	mg/Kg-dry	10	8/8/2019 8:00:31 PM
Tetrachloroethene (PCE)	0.965	0.243	D	mg/Kg-dry	10	8/8/2019 8:00:31 PM
Surr: Dibromofluoromethane	96.0	56.5 - 129	D	%Rec	10	8/8/2019 8:00:31 PM
Surr: Toluene-d8	93.8	64.5 - 151	D	%Rec	10	8/8/2019 8:00:31 PM
Surr: 1-Bromo-4-fluorobenzene	96.1	54.8 - 168	D	%Rec	10	8/8/2019 8:00:31 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	14.6	0.500		wt%	1	8/8/2019 1:48:32 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1908118-003

**Collection Date:** 8/8/2019 8:00:00 AM

**Client Sample ID:** 03-19-206-17.5

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.232	D	mg/Kg-dry	10	8/8/2019 8:30:37 PM
cis-1,2-Dichloroethene	ND	0.185	D	mg/Kg-dry	10	8/8/2019 8:30:37 PM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	8/8/2019 8:30:37 PM
Tetrachloroethene (PCE)	0.666	0.232	D	mg/Kg-dry	10	8/8/2019 8:30:37 PM
Surr: Dibromofluoromethane	95.7	56.5 - 129	D	%Rec	10	8/8/2019 8:30:37 PM
Surr: Toluene-d8	93.5	64.5 - 151	D	%Rec	10	8/8/2019 8:30:37 PM
Surr: 1-Bromo-4-fluorobenzene	97.6	54.8 - 168	D	%Rec	10	8/8/2019 8:30:37 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	13.9	0.500		wt%	1	8/8/2019 1:48:32 PM
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**Lab ID:** 1908118-004

**Collection Date:** 8/8/2019 8:05:00 AM

**Client Sample ID:** 03-19-207-18

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.250	D	mg/Kg-dry	10	8/8/2019 9:00:46 PM
cis-1,2-Dichloroethene	ND	0.200	D	mg/Kg-dry	10	8/8/2019 9:00:46 PM
Trichloroethene (TCE)	ND	0.200	D	mg/Kg-dry	10	8/8/2019 9:00:46 PM
Tetrachloroethene (PCE)	0.904	0.250	D	mg/Kg-dry	10	8/8/2019 9:00:46 PM
Surr: Dibromofluoromethane	96.6	56.5 - 129	D	%Rec	10	8/8/2019 9:00:46 PM
Surr: Toluene-d8	93.1	64.5 - 151	D	%Rec	10	8/8/2019 9:00:46 PM
Surr: 1-Bromo-4-fluorobenzene	97.8	54.8 - 168	D	%Rec	10	8/8/2019 9:00:46 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	12.9	0.500		wt%	1	8/8/2019 1:48:32 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1908118-005

**Collection Date:** 8/8/2019 9:45:00 AM

**Client Sample ID:** 02-09-109-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.225	D	mg/Kg-dry	10	8/8/2019 9:30:55 PM
cis-1,2-Dichloroethene	2.33	0.180	D	mg/Kg-dry	10	8/8/2019 9:30:55 PM
Trichloroethene (TCE)	0.0334	0.180	DJ	mg/Kg-dry	10	8/8/2019 9:30:55 PM
Tetrachloroethene (PCE)	0.178	0.225	DJ	mg/Kg-dry	10	8/8/2019 9:30:55 PM
Surr: Dibromofluoromethane	94.7	56.5 - 129	D	%Rec	10	8/8/2019 9:30:55 PM
Surr: Toluene-d8	92.5	64.5 - 151	D	%Rec	10	8/8/2019 9:30:55 PM
Surr: 1-Bromo-4-fluorobenzene	96.2	54.8 - 168	D	%Rec	10	8/8/2019 9:30:55 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	13.6	0.500		wt%	1	8/8/2019 1:48:32 PM
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**Lab ID:** 1908118-006

**Collection Date:** 8/8/2019 9:55:00 AM

**Client Sample ID:** 02-09-108-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.248	D	mg/Kg-dry	10	8/8/2019 10:01:04 PM
cis-1,2-Dichloroethene	1.69	0.199	D	mg/Kg-dry	10	8/8/2019 10:01:04 PM
Trichloroethene (TCE)	0.127	0.199	DJ	mg/Kg-dry	10	8/8/2019 10:01:04 PM
Tetrachloroethene (PCE)	1.66	0.248	D	mg/Kg-dry	10	8/8/2019 10:01:04 PM
Surr: Dibromofluoromethane	94.4	56.5 - 129	D	%Rec	10	8/8/2019 10:01:04 PM
Surr: Toluene-d8	93.8	64.5 - 151	D	%Rec	10	8/8/2019 10:01:04 PM
Surr: 1-Bromo-4-fluorobenzene	96.6	54.8 - 168	D	%Rec	10	8/8/2019 10:01:04 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	14.7	0.500		wt%	1	8/8/2019 1:48:32 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908118-007

**Collection Date:** 8/8/2019 10:05:00 AM

**Client Sample ID:** 02-09-107-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.260	D	mg/Kg-dry	10	8/8/2019 10:31:10 PM
cis-1,2-Dichloroethene	ND	0.208	D	mg/Kg-dry	10	8/8/2019 10:31:10 PM
Trichloroethene (TCE)	ND	0.208	D	mg/Kg-dry	10	8/8/2019 10:31:10 PM
Tetrachloroethene (PCE)	0.104	0.260	DJ	mg/Kg-dry	10	8/8/2019 10:31:10 PM
Surr: Dibromofluoromethane	95.7	56.5 - 129	D	%Rec	10	8/8/2019 10:31:10 PM
Surr: Toluene-d8	93.8	64.5 - 151	D	%Rec	10	8/8/2019 10:31:10 PM
Surr: 1-Bromo-4-fluorobenzene	95.2	54.8 - 168	D	%Rec	10	8/8/2019 10:31:10 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	14.1	0.500		wt%	1	8/8/2019 1:48:32 PM
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**Lab ID:** 1908118-008

**Collection Date:** 8/8/2019 10:25:00 AM

**Client Sample ID:** 02-09-110-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.244	D	mg/Kg-dry	10	8/8/2019 11:01:17 PM
cis-1,2-Dichloroethene	0.0505	0.195	DJ	mg/Kg-dry	10	8/8/2019 11:01:17 PM
Trichloroethene (TCE)	ND	0.195	D	mg/Kg-dry	10	8/8/2019 11:01:17 PM
Tetrachloroethene (PCE)	ND	0.244	D	mg/Kg-dry	10	8/8/2019 11:01:17 PM
Surr: Dibromofluoromethane	95.7	56.5 - 129	D	%Rec	10	8/8/2019 11:01:17 PM
Surr: Toluene-d8	93.9	64.5 - 151	D	%Rec	10	8/8/2019 11:01:17 PM
Surr: 1-Bromo-4-fluorobenzene	95.6	54.8 - 168	D	%Rec	10	8/8/2019 11:01:17 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	17.4	0.500		wt%	1	8/8/2019 1:48:32 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908118-009

**Collection Date:** 8/8/2019 10:45:00 AM

**Client Sample ID:** 02-09-111-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.234	D	mg/Kg-dry	10	8/8/2019 11:31:24 PM
cis-1,2-Dichloroethene	ND	0.187	D	mg/Kg-dry	10	8/8/2019 11:31:24 PM
Trichloroethene (TCE)	ND	0.187	D	mg/Kg-dry	10	8/8/2019 11:31:24 PM
Tetrachloroethene (PCE)	ND	0.234	D	mg/Kg-dry	10	8/8/2019 11:31:24 PM
Surr: Dibromofluoromethane	96.2	56.5 - 129	D	%Rec	10	8/8/2019 11:31:24 PM
Surr: Toluene-d8	93.9	64.5 - 151	D	%Rec	10	8/8/2019 11:31:24 PM
Surr: 1-Bromo-4-fluorobenzene	96.3	54.8 - 168	D	%Rec	10	8/8/2019 11:31:24 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	16.3	0.500		wt%	1	8/8/2019 1:48:32 PM
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**Lab ID:** 1908118-010

**Collection Date:** 8/8/2019 9:48:00 AM

**Client Sample ID:** 02-07-109-06

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.269	D	mg/Kg-dry	10	8/9/2019 12:31:41 AM
cis-1,2-Dichloroethene	1.21	0.215	D	mg/Kg-dry	10	8/9/2019 12:31:41 AM
Trichloroethene (TCE)	0.399	0.215	D	mg/Kg-dry	10	8/9/2019 12:31:41 AM
Tetrachloroethene (PCE)	16.8	0.269	D	mg/Kg-dry	10	8/9/2019 12:31:41 AM
Surr: Dibromofluoromethane	95.6	56.5 - 129	D	%Rec	10	8/9/2019 12:31:41 AM
Surr: Toluene-d8	93.3	64.5 - 151	D	%Rec	10	8/9/2019 12:31:41 AM
Surr: 1-Bromo-4-fluorobenzene	94.5	54.8 - 168	D	%Rec	10	8/9/2019 12:31:41 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	18.0	0.500		wt%	1	8/8/2019 1:48:32 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1908118-011

**Collection Date:** 8/8/2019 10:03:00 AM

**Client Sample ID:** 02-07-108-06

**Matrix:** Soil

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

Batch ID: 25446

Analyst: KT

Vinyl chloride	ND	0.252	D	mg/Kg-dry	10	8/10/2019 3:13:27 AM
cis-1,2-Dichloroethene	5.63	0.202	D	mg/Kg-dry	10	8/10/2019 3:13:27 AM
Trichloroethene (TCE)	0.329	0.202	D	mg/Kg-dry	10	8/10/2019 3:13:27 AM
Tetrachloroethene (PCE)	1.66	0.252	D	mg/Kg-dry	10	8/10/2019 3:13:27 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	8/10/2019 3:13:27 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	8/10/2019 3:13:27 AM
Surr: 1-Bromo-4-fluorobenzene	96.2	54.8 - 168	D	%Rec	10	8/10/2019 3:13:27 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	14.1	0.500		wt%	1	8/8/2019 1:48:32 PM
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**Lab ID:** 1908118-012

**Collection Date:** 8/8/2019 10:30:00 AM

**Client Sample ID:** 02-07-110-06

**Matrix:** Soil

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

Batch ID: 25446

Analyst: KT

Vinyl chloride	ND	0.209	D	mg/Kg-dry	10	8/10/2019 3:43:34 AM
cis-1,2-Dichloroethene	0.110	0.167	DJ	mg/Kg-dry	10	8/10/2019 3:43:34 AM
Trichloroethene (TCE)	ND	0.167	D	mg/Kg-dry	10	8/10/2019 3:43:34 AM
Tetrachloroethene (PCE)	0.0933	0.209	DJ	mg/Kg-dry	10	8/10/2019 3:43:34 AM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	8/10/2019 3:43:34 AM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	8/10/2019 3:43:34 AM
Surr: 1-Bromo-4-fluorobenzene	95.3	54.8 - 168	D	%Rec	10	8/10/2019 3:43:34 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	10.6	0.500		wt%	1	8/8/2019 1:48:32 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1908118-013

**Collection Date:** 8/8/2019 11:15:00 AM

**Client Sample ID:** TB-080819

**Matrix:** Soil

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

Batch ID: 25446

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	8/10/2019 2:43:17 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/10/2019 2:43:17 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/10/2019 2:43:17 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/10/2019 2:43:17 AM
Surr: Dibromofluoromethane	101	56.5 - 129		%Rec	1	8/10/2019 2:43:17 AM
Surr: Toluene-d8	101	64.5 - 151		%Rec	1	8/10/2019 2:43:17 AM
Surr: 1-Bromo-4-fluorobenzene	94.9	54.8 - 168		%Rec	1	8/10/2019 2:43:17 AM

**Lab ID:** 1908118-014

**Collection Date:** 8/8/2019 9:00:00 AM

**Client Sample ID:** B-961-15

**Matrix:** Soil

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

Batch ID: 25446

Analyst: KT

Vinyl chloride	ND	0.235	D	mg/Kg-dry	10	8/10/2019 4:13:42 AM
cis-1,2-Dichloroethene	1.02	0.188	D	mg/Kg-dry	10	8/10/2019 4:13:42 AM
Trichloroethene (TCE)	0.300	0.188	D	mg/Kg-dry	10	8/10/2019 4:13:42 AM
Tetrachloroethene (PCE)	15.1	0.235	D	mg/Kg-dry	10	8/10/2019 4:13:42 AM
Surr: Dibromofluoromethane	100	56.5 - 129	D	%Rec	10	8/10/2019 4:13:42 AM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	8/10/2019 4:13:42 AM
Surr: 1-Bromo-4-fluorobenzene	95.2	54.8 - 168	D	%Rec	10	8/10/2019 4:13:42 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53131

Analyst: CJ

Percent Moisture	17.0	0.500		wt%	1	8/8/2019 1:48:32 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1908118-015

**Collection Date:** 8/8/2019 12:45:00 PM

**Client Sample ID:** 02-09-118-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.278	D	mg/Kg-dry	10	8/9/2019 1:01:52 AM
cis-1,2-Dichloroethene	0.641	0.223	D	mg/Kg-dry	10	8/9/2019 1:01:52 AM
Trichloroethene (TCE)	0.217	0.223	DJ	mg/Kg-dry	10	8/9/2019 1:01:52 AM
Tetrachloroethene (PCE)	5.49	0.278	D	mg/Kg-dry	10	8/9/2019 1:01:52 AM
Surr: Dibromofluoromethane	95.1	56.5 - 129	D	%Rec	10	8/9/2019 1:01:52 AM
Surr: Toluene-d8	92.3	64.5 - 151	D	%Rec	10	8/9/2019 1:01:52 AM
Surr: 1-Bromo-4-fluorobenzene	97.5	54.8 - 168	D	%Rec	10	8/9/2019 1:01:52 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53139

Analyst: SBM

Percent Moisture	14.8	0.500		wt%	1	8/8/2019 4:13:30 PM
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**Lab ID:** 1908118-016

**Collection Date:** 8/8/2019 12:50:00 PM

**Client Sample ID:** 02-09-119-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.296	D	mg/Kg-dry	10	8/9/2019 1:32:00 AM
cis-1,2-Dichloroethene	1.29	0.237	D	mg/Kg-dry	10	8/9/2019 1:32:00 AM
Trichloroethene (TCE)	0.518	0.237	D	mg/Kg-dry	10	8/9/2019 1:32:00 AM
Tetrachloroethene (PCE)	10.2	0.296	D	mg/Kg-dry	10	8/9/2019 1:32:00 AM
Surr: Dibromofluoromethane	95.2	56.5 - 129	D	%Rec	10	8/9/2019 1:32:00 AM
Surr: Toluene-d8	93.1	64.5 - 151	D	%Rec	10	8/9/2019 1:32:00 AM
Surr: 1-Bromo-4-fluorobenzene	95.1	54.8 - 168	D	%Rec	10	8/9/2019 1:32:00 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53139

Analyst: SBM

Percent Moisture	13.2	0.500		wt%	1	8/8/2019 4:13:30 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1908118-017

**Collection Date:** 8/8/2019 1:00:00 PM

**Client Sample ID:** 02-09-120-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	0.108	0.289	DJ	mg/Kg-dry	10	8/9/2019 2:02:08 AM
cis-1,2-Dichloroethene	2.19	0.231	D	mg/Kg-dry	10	8/9/2019 2:02:08 AM
Trichloroethene (TCE)	0.150	0.231	DJ	mg/Kg-dry	10	8/9/2019 2:02:08 AM
Tetrachloroethene (PCE)	1.68	0.289	D	mg/Kg-dry	10	8/9/2019 2:02:08 AM
Surr: Dibromofluoromethane	96.2	56.5 - 129	D	%Rec	10	8/9/2019 2:02:08 AM
Surr: Toluene-d8	94.2	64.5 - 151	D	%Rec	10	8/9/2019 2:02:08 AM
Surr: 1-Bromo-4-fluorobenzene	95.7	54.8 - 168	D	%Rec	10	8/9/2019 2:02:08 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53139

Analyst: SBM

Percent Moisture	15.0	0.500		wt%	1	8/8/2019 4:13:30 PM
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**Lab ID:** 1908118-018

**Collection Date:** 8/8/2019 1:11:00 PM

**Client Sample ID:** 02-09-121-08

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.226	D	mg/Kg-dry	10	8/9/2019 2:32:17 AM
cis-1,2-Dichloroethene	ND	0.181	D	mg/Kg-dry	10	8/9/2019 2:32:17 AM
Trichloroethene (TCE)	ND	0.181	D	mg/Kg-dry	10	8/9/2019 2:32:17 AM
Tetrachloroethene (PCE)	ND	0.226	D	mg/Kg-dry	10	8/9/2019 2:32:17 AM
Surr: Dibromofluoromethane	96.9	56.5 - 129	D	%Rec	10	8/9/2019 2:32:17 AM
Surr: Toluene-d8	95.2	64.5 - 151	D	%Rec	10	8/9/2019 2:32:17 AM
Surr: 1-Bromo-4-fluorobenzene	95.6	54.8 - 168	D	%Rec	10	8/9/2019 2:32:17 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53139

Analyst: SBM

Percent Moisture	9.51	0.500		wt%	1	8/8/2019 4:13:30 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908118-019

**Collection Date:** 8/8/2019 2:00:00 PM

**Client Sample ID:** TB-080819-2

**Matrix:** Soil

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

Batch ID: 25427

Analyst: CR

Vinyl chloride	ND	0.250	D	mg/Kg	10	8/8/2019 6:30:07 PM
cis-1,2-Dichloroethene	ND	0.200	D	mg/Kg	10	8/8/2019 6:30:07 PM
Trichloroethene (TCE)	ND	0.200	D	mg/Kg	10	8/8/2019 6:30:07 PM
Tetrachloroethene (PCE)	ND	0.250	D	mg/Kg	10	8/8/2019 6:30:07 PM
Surr: Dibromofluoromethane	94.3	56.5 - 129	D	%Rec	10	8/8/2019 6:30:07 PM
Surr: Toluene-d8	93.0	64.5 - 151	D	%Rec	10	8/8/2019 6:30:07 PM
Surr: 1-Bromo-4-fluorobenzene	96.6	54.8 - 168	D	%Rec	10	8/8/2019 6:30:07 PM

**Lab ID:** 1908118-020

**Collection Date:** 8/8/2019 12:30:00 PM

**Client Sample ID:** 02-07-111-06

**Matrix:** Soil

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

Batch ID: 25446

Analyst: KT

Vinyl chloride	ND	0.246	D	mg/Kg-dry	10	8/10/2019 4:43:50 AM
cis-1,2-Dichloroethene	ND	0.197	D	mg/Kg-dry	10	8/10/2019 4:43:50 AM
Trichloroethene (TCE)	ND	0.197	D	mg/Kg-dry	10	8/10/2019 4:43:50 AM
Tetrachloroethene (PCE)	ND	0.246	D	mg/Kg-dry	10	8/10/2019 4:43:50 AM
Surr: Dibromofluoromethane	101	56.5 - 129	D	%Rec	10	8/10/2019 4:43:50 AM
Surr: Toluene-d8	101	64.5 - 151	D	%Rec	10	8/10/2019 4:43:50 AM
Surr: 1-Bromo-4-fluorobenzene	95.5	54.8 - 168	D	%Rec	10	8/10/2019 4:43:50 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53155

Analyst: KP

Percent Moisture	13.8	0.500		wt%	1	8/9/2019 12:07:39 PM
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**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**Lab ID:** 1908118-021

**Collection Date:** 8/8/2019 12:20:00 PM

**Client Sample ID:** 02-07-107-06

**Matrix:** Soil

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

Batch ID: 25446

Analyst: KT

Vinyl chloride	ND	0.221	D	mg/Kg-dry	10	8/10/2019 5:14:00 AM
cis-1,2-Dichloroethene	ND	0.177	D	mg/Kg-dry	10	8/10/2019 5:14:00 AM
Trichloroethene (TCE)	ND	0.177	D	mg/Kg-dry	10	8/10/2019 5:14:00 AM
Tetrachloroethene (PCE)	ND	0.221	D	mg/Kg-dry	10	8/10/2019 5:14:00 AM
Surr: Dibromofluoromethane	104	56.5 - 129	D	%Rec	10	8/10/2019 5:14:00 AM
Surr: Toluene-d8	102	64.5 - 151	D	%Rec	10	8/10/2019 5:14:00 AM
Surr: 1-Bromo-4-fluorobenzene	96.1	54.8 - 168	D	%Rec	10	8/10/2019 5:14:00 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53155

Analyst: KP

Percent Moisture	14.6	0.500		wt%	1	8/9/2019 12:07:39 PM
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**Work Order:** 1908118  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25427</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53143</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>25427</b>		Analysis Date: <b>8/8/2019</b>	SeqNo: <b>1050189</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.03	0.0250	1.000	0	103	43.4	151				
cis-1,2-Dichloroethene	1.03	0.0200	1.000	0	103	71.3	135				
Trichloroethene (TCE)	0.943	0.0200	1.000	0	94.3	65.5	137				
Tetrachloroethene (PCE)	1.01	0.0250	1.000	0	101	52.7	150				
Surr: Dibromofluoromethane	1.22		1.250		97.2	56.5	129				
Surr: Toluene-d8	1.20		1.250		96.0	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.25		1.250		100	54.8	168				

Sample ID: <b>MB-25427</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53143</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25427</b>		Analysis Date: <b>8/8/2019</b>	SeqNo: <b>1050190</b>							
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	1.17		1.250		93.7	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.0	54.8	168				

Sample ID: <b>1908118-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53143</b>							
Client ID: <b>03-19-202-18.5</b>	Batch ID: <b>25427</b>		Analysis Date: <b>8/8/2019</b>	SeqNo: <b>1050168</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.206						0	0	30	D
cis-1,2-Dichloroethene	ND	0.165						0	0	30	D
Trichloroethene (TCE)	0.0210	0.165						0.02466	16.1	30	DJ
Tetrachloroethene (PCE)	2.02	0.206						1.935	4.18	30	D
Surr: Dibromofluoromethane	9.96		10.30		96.7	56.5	129		0		D
Surr: Toluene-d8	9.71		10.30		94.3	64.5	151		0		D

Work Order: 1908118  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>1908118-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53143</b>							
Client ID: <b>03-19-202-18.5</b>	Batch ID: <b>25427</b>		Analysis Date: <b>8/8/2019</b>	SeqNo: <b>1050168</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	10.0		10.30		97.2	54.8	168		0		D
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Sample ID: <b>1908118-009BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53143</b>							
Client ID: <b>02-09-111-08</b>	Batch ID: <b>25427</b>		Analysis Date: <b>8/9/2019</b>	SeqNo: <b>1050179</b>							
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	11.3		11.70		96.5	56.5	129		0		D
Surr: Toluene-d8	11.1		11.70		94.6	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.2		11.70		95.8	54.8	168		0		D

Sample ID: <b>1908118-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53143</b>							
Client ID: <b>03-19-203-17.5</b>	Batch ID: <b>25427</b>		Analysis Date: <b>8/9/2019</b>	SeqNo: <b>1050170</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	10.6	0.243	9.730	0	109	43.6	150				D
cis-1,2-Dichloroethene	10.0	0.195	9.730	0	103	58.6	136				D
Trichloroethene (TCE)	9.50	0.195	9.730	0	97.6	61.6	147				D
Tetrachloroethene (PCE)	10.9	0.243	9.730	0.9646	102	35.6	158				D
Surr: Dibromofluoromethane	12.3		12.16		101	56.5	129				D
Surr: Toluene-d8	11.7		12.16		96.0	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	12.2		12.16		101	54.8	168				D

**Work Order:** 1908118  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1908118-002BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53143</b>							
Client ID: <b>03-19-203-17.5</b>	Batch ID: <b>25427</b>		Analysis Date: <b>8/9/2019</b>	SeqNo: <b>1050171</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	11.1	0.243	9.730	0	114	43.6	150	10.57	4.52	30	D
cis-1,2-Dichloroethene	10.3	0.195	9.730	0	106	58.6	136	9.996	3.23	30	D
Trichloroethene (TCE)	9.99	0.195	9.730	0	103	61.6	147	9.500	5.04	30	D
Tetrachloroethene (PCE)	11.1	0.243	9.730	0.9646	104	35.6	158	10.92	1.73	30	D
Surr: Dibromofluoromethane	12.0		12.16		98.4	56.5	129		0		D
Surr: Toluene-d8	11.7		12.16		96.5	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.3		12.16		101	54.8	168		0		D

Sample ID: <b>LCS-25446</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/9/2019</b>	RunNo: <b>53174</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>25446</b>		Analysis Date: <b>8/10/2019</b>	SeqNo: <b>1050880</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	1.36	0.0250	1.000	0	136	43.4	151				
cis-1,2-Dichloroethene	1.08	0.0200	1.000	0	108	71.3	135				
Trichloroethene (TCE)	1.06	0.0200	1.000	0	106	65.5	137				
Tetrachloroethene (PCE)	1.06	0.0250	1.000	0	106	52.7	150				
Surr: Dibromofluoromethane	1.30		1.250		104	56.5	129				
Surr: Toluene-d8	1.27		1.250		101	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	54.8	168				

Sample ID: <b>MB-25446</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/9/2019</b>	RunNo: <b>53174</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25446</b>		Analysis Date: <b>8/10/2019</b>	SeqNo: <b>1050881</b>							
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	1.25		1.250		99.8	64.5	151				

**Work Order:** 1908118  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>MB-25446</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/9/2019</b>	RunNo: <b>53174</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>25446</b>		Analysis Date: <b>8/10/2019</b>	SeqNo: <b>1050881</b>							
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      96.7      54.8      168

Sample ID: <b>1908118-021BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/9/2019</b>	RunNo: <b>53174</b>							
Client ID: <b>02-07-107-06</b>	Batch ID: <b>25446</b>		Analysis Date: <b>8/10/2019</b>	SeqNo: <b>1050875</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	8.22	0.221	8.852	0	92.8	43.6	150				D
cis-1,2-Dichloroethene	9.09	0.177	8.852	0	103	58.6	136				D
Trichloroethene (TCE)	8.20	0.177	8.852	0	92.6	61.6	147				D
Tetrachloroethene (PCE)	8.32	0.221	8.852	0	94.0	35.6	158				D
Surr: Dibromofluoromethane	11.7		11.07		105	56.5	129				D
Surr: Toluene-d8	11.2		11.07		102	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	11.1		11.07		101	54.8	168				D

Sample ID: <b>1908118-021BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/9/2019</b>	RunNo: <b>53174</b>							
Client ID: <b>02-07-107-06</b>	Batch ID: <b>25446</b>		Analysis Date: <b>8/10/2019</b>	SeqNo: <b>1050876</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	8.58	0.221	8.852	0	96.9	43.6	150	8.216	4.33	30	D
cis-1,2-Dichloroethene	9.28	0.177	8.852	0	105	58.6	136	9.089	2.10	30	D
Trichloroethene (TCE)	8.48	0.177	8.852	0	95.8	61.6	147	8.197	3.37	30	D
Tetrachloroethene (PCE)	8.66	0.221	8.852	0	97.9	35.6	158	8.321	4.02	30	D
Surr: Dibromofluoromethane	11.6		11.07		105	56.5	129		0		D
Surr: Toluene-d8	11.2		11.07		101	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	11.0		11.07		99.8	54.8	168		0		D

**Work Order:** 1908118  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1908118-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53131</b>							
Client ID: <b>03-19-203-17.5</b>	Batch ID: <b>R53131</b>	Analysis Date: <b>8/8/2019</b>	SeqNo: <b>1049943</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	14.3	0.500						14.61	2.24	20	
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Sample ID: <b>1908118-012ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53131</b>							
Client ID: <b>02-07-110-06</b>	Batch ID: <b>R53131</b>	Analysis Date: <b>8/8/2019</b>	SeqNo: <b>1049954</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	11.6	0.500						10.57	9.29	20	
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Sample ID: <b>1908118-017ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/8/2019</b>	RunNo: <b>53139</b>							
Client ID: <b>02-09-120-08</b>	Batch ID: <b>R53139</b>	Analysis Date: <b>8/8/2019</b>	SeqNo: <b>1050091</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	16.6	0.500						15.02	10.0	20	
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Sample ID: <b>1908121-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/9/2019</b>	RunNo: <b>53155</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R53155</b>	Analysis Date: <b>8/9/2019</b>	SeqNo: <b>1050454</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	12.0	0.500						10.10	16.8	20	
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Sample ID: <b>1908118-020ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/9/2019</b>	RunNo: <b>53155</b>							
Client ID: <b>02-07-111-06</b>	Batch ID: <b>R53155</b>	Analysis Date: <b>8/9/2019</b>	SeqNo: <b>1050455</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Percent Moisture	14.0	0.500						13.76	1.75	20	
------------------	------	-------	--	--	--	--	--	-------	------	----	--

Client Name: **PES**  
 Logged by: **Carissa True**

Work Order Number: **1908118**  
 Date Received: **8/8/2019 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°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:	<input type="text" value="Brian"/>	Date:	<input type="text" value="8/8/2019"/>
By Whom:	<input type="text" value="Carissa True"/>	Via:	<input checked="" type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="Label Discrepany. Confirm samples on hold"/>		
Client Instructions:	<input "02-07-109-06".="" confirmed"="" is="" type="text" value="02-09-109-06"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler 1	5.1
Sample 1	8.0

\* 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: 08/08/2019 Page: 1 of: 2

Project Name: AMERICAN LINEN

Project No: 1413.001.05.402

Collected by: K. Zygus/R. McLachlan

Location: Seattle, WA

Report To (PM): B O'NEAL

PM Email: BOUEAL@PESENVU.COM, KVIK@PESENVU.COM, KRIN@STADERESENVU.COM

Laboratory Project No (Internal): 1908118

Special Remarks:

Select List Voc's: PCE, TCE, CIS-1,2-DCE, VC  
ASAP TAT: FRI AM

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 (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 (801.1)	Comments	
1 03-19-202-18.S	8/8/19	0735	S	X														
2 03-19-203-17.S		0740																
3 03-19-206-17.S		0800																
4 03-19-267-18		0805																
5 02-09-109-08		0945																
6 02-09-108-08		0955																
7 02-09-107-08		1005																
8 02-09-110-08		1025																
9 02-09-111-08		1045																
10 02-09-109-06		0948																

ASAP TAT FRI AM

\*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): MICA-5 RCR-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
<u>OK</u>	<u>8/8/19 1143</u>	<u>[Signature]</u>	<u>8/8/19 @ 1143</u>
Relinquished	Date/Time	Received	Date/Time
<u>X</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>

Turn-around Time:

Standard

3 Day

2 Day

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: **8-8-2019** Page: **2** of **2**

Laboratory Project No (Internal): **1908118**

Project Name: **AMERICAN UNEN**

Special Remarks:

**SELECT LIST VOCs: TCE, PCE, CIS-1,2 DCE, V6**

**2 DAY TAT: MON AM**

Project No:

**SEE**

**2 DAY TAT: MON AM**

Collected by:

**PG**

**2 DAY TAT: MON AM**

Location:

Report To (PM):

**2**

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

PM Email:

Client: **RES ENVIRONMENTAL**

Address:

**SEE PAGE 1**

City, State, Zip:

Telephone:

Fax:

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GY/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCD)	Diesel/Heav 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 (C)***	EDB (8011)	Comments	
1 02-07-108-06	8/8/19	1003	S	X														
2 02-07-110-06	X	1030	S	X														
3 <del>02-07-110-06</del>																		
4 TB-080819	8/8/19	1115	X															<b>2 DAY TAT MON AM</b>
5																		
6																		
7																		
8																		
9																		
10																		

Turn-around Time:

- Standard
- 3 Day
- 2 Day
- Next Day
- Same Day

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 **8/8/19** Date/Time **1143** Received **8/8/19** Date/Time **1143**

Relinquished **8/8/19** Date/Time **1143** Received **8/8/19** Date/Time **1143**



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# Chain of Custody Record & Laboratory Services Agreement

Date: 08/08/2019 Page: 1 of 2

Project Name: AMERICAN LINEN

Project No: 1413, 001, 05, 402

Collected by: K. Zygus/R. Melkus

Location: Seattle, WA

Report To (PM): B. O'NEAL

PM Email: BOUEAL@PESERV.COM, KVIK@PESERV.COM, KSPRIN@STEADBEREV.COM

Laboratory Project No (Internal): 1908118

Special Remarks:

Select List Voc's: Pce, Tce,  
CIS-1,2-DCe, VC  
ASAP TAT: FRI AM

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 (HCD)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.9)	Total (T)   Dissolved (D)	Metals (IC)***	Anions (I)	EDB (8011)	Comments
1 03-19-202-18.S	8/8/19	0735	S	X														
2 03-19-203-17.S		0740																
3 03-19-206-17.S		0800																
4 03-19-267-18		0805																
5 02-09-109-08		0945																
6 02-09-108-08		0955																
7 02-09-107-08		1005																
8 02-09-110-08		1025																
9 02-09-111-08		1045																
10 02-09-109-06		0948																

ASAP  
TAT  
FRI AM

\*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): MICA-5 RCR-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

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: 8/8/19 1143 Received Date/Time: 8/9/19 @ 1143  
 Relinquished Date/Time: \_\_\_\_\_ Received 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: 08/08/19 Page: 1 of 2

Laboratory Project No (Internal): 1908118

Project Name: AMERICAN GREEN

Special Remarks:  
Select List Docs: PCE, TCE, CAS-12-DC, VC

Project No: 1413.001.05.402

Collected by: K. Zygas/R. McLaughlin

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

Location: Seattle, WA

Report To (PM): B. O'Neal

PM Email: BOULCAL@PSENU.COM, KVIKE@PSENU.COM, KSPRINGS@STEADDERPSENU.COM

Telephone: 206 529 3980

Fax: 206 529 3985

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	YOCs (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 (C)***	EDB (8011)	Comments	
1 02-09-118-08	8/8/19	1245	S	X														
2 02-09-119-08		1250	S	X														
3 02-09-120-08		1300	S	X														
4 02-09-121-08		1311	S	X														
5 TB-080819-2		1400	S	X														TRIP BLANK
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 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 8/8/19 Date/Time 1409 Received 8/8/19 Date/Time 1409

Relinquished 8/8/19 Date/Time 1409 Received 8/8/19 Date/Time 1409

Turn-around Time:  
 Standard  
 3 Day  
 2 Day 8/9/19  
 Next Day AM  
 Same Day ASAP (specify)





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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: 1908174**

August 14, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 7 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 08/14/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1908174

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908174-001	02-11-205-10.5	08/13/2019 7:38 AM	08/13/2019 8:30 AM
1908174-002	02-09-206-09	08/13/2019 7:46 AM	08/13/2019 8:30 AM
1908174-003	02-11-203-09.5	08/13/2019 7:43 AM	08/13/2019 8:30 AM
1908174-004	02-09-207-09	08/13/2019 7:54 AM	08/13/2019 8:30 AM
1908174-005	02-11-204-09.5	08/13/2019 7:51 AM	08/13/2019 8:30 AM
1908174-006	02-11-202-10.5	08/13/2019 7:48 AM	08/13/2019 8:30 AM
1908174-007	TB-081319	08/13/2019 8:10 AM	08/13/2019 8:30 AM

**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

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**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.

**Project:** American Linen

**Lab ID:** 1908174-001

**Collection Date:** 8/13/2019 7:38:00 AM

**Client Sample ID:** 02-11-205-10.5

**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 5:07:29 PM
cis-1,2-Dichloroethene	ND	0.193	D	mg/Kg-dry	10	8/13/2019 5:07:29 PM
Trichloroethene (TCE)	ND	0.193	D	mg/Kg-dry	10	8/13/2019 5:07:29 PM
Tetrachloroethene (PCE)	0.584	0.241	D	mg/Kg-dry	10	8/13/2019 5:07:29 PM
Surr: Dibromofluoromethane	99.3	56.5 - 129	D	%Rec	10	8/13/2019 5:07:29 PM
Surr: Toluene-d8	99.1	64.5 - 151	D	%Rec	10	8/13/2019 5:07:29 PM
Surr: 1-Bromo-4-fluorobenzene	97.5	54.8 - 168	D	%Rec	10	8/13/2019 5:07:29 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53207

Analyst: ZR

Percent Moisture	16.1	0.500		wt%	1	8/13/2019 9:14:32 AM
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**Lab ID:** 1908174-002

**Collection Date:** 8/13/2019 7:46:00 AM

**Client Sample ID:** 02-09-206-09

**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	0.268	D	mg/Kg-dry	10	8/13/2019 6:07:47 PM
cis-1,2-Dichloroethene	ND	0.214	D	mg/Kg-dry	10	8/13/2019 6:07:47 PM
Trichloroethene (TCE)	ND	0.214	D	mg/Kg-dry	10	8/13/2019 6:07:47 PM
Tetrachloroethene (PCE)	ND	0.268	D	mg/Kg-dry	10	8/13/2019 6:07:47 PM
Surr: Dibromofluoromethane	98.6	56.5 - 129	D	%Rec	10	8/13/2019 6:07:47 PM
Surr: Toluene-d8	97.3	64.5 - 151	D	%Rec	10	8/13/2019 6:07:47 PM
Surr: 1-Bromo-4-fluorobenzene	96.7	54.8 - 168	D	%Rec	10	8/13/2019 6:07:47 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53207

Analyst: ZR

Percent Moisture	17.0	0.500		wt%	1	8/13/2019 9:14:32 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908174-003

**Collection Date:** 8/13/2019 7:43:00 AM

**Client Sample ID:** 02-11-203-09.5

**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	0.233	D	mg/Kg-dry	10	8/13/2019 6:37:56 PM
cis-1,2-Dichloroethene	ND	0.186	D	mg/Kg-dry	10	8/13/2019 6:37:56 PM
Trichloroethene (TCE)	ND	0.186	D	mg/Kg-dry	10	8/13/2019 6:37:56 PM
Tetrachloroethene (PCE)	0.165	0.233	DJ	mg/Kg-dry	10	8/13/2019 6:37:56 PM
Surr: Dibromofluoromethane	99.9	56.5 - 129	D	%Rec	10	8/13/2019 6:37:56 PM
Surr: Toluene-d8	97.2	64.5 - 151	D	%Rec	10	8/13/2019 6:37:56 PM
Surr: 1-Bromo-4-fluorobenzene	95.7	54.8 - 168	D	%Rec	10	8/13/2019 6:37:56 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53207

Analyst: ZR

Percent Moisture	11.7	0.500		wt%	1	8/13/2019 9:14:32 AM
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**Lab ID:** 1908174-004

**Collection Date:** 8/13/2019 7:54:00 AM

**Client Sample ID:** 02-09-207-09

**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	0.242	D	mg/Kg-dry	10	8/13/2019 7:08:06 PM
cis-1,2-Dichloroethene	ND	0.194	D	mg/Kg-dry	10	8/13/2019 7:08:06 PM
Trichloroethene (TCE)	ND	0.194	D	mg/Kg-dry	10	8/13/2019 7:08:06 PM
Tetrachloroethene (PCE)	0.111	0.242	DJ	mg/Kg-dry	10	8/13/2019 7:08:06 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	8/13/2019 7:08:06 PM
Surr: Toluene-d8	98.2	64.5 - 151	D	%Rec	10	8/13/2019 7:08:06 PM
Surr: 1-Bromo-4-fluorobenzene	97.9	54.8 - 168	D	%Rec	10	8/13/2019 7:08:06 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53207

Analyst: ZR

Percent Moisture	14.0	0.500		wt%	1	8/13/2019 9:14:32 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908174-005

**Collection Date:** 8/13/2019 7:51:00 AM

**Client Sample ID:** 02-11-204-09.5

**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	0.253	D	mg/Kg-dry	10	8/13/2019 7:38:15 PM
cis-1,2-Dichloroethene	ND	0.203	D	mg/Kg-dry	10	8/13/2019 7:38:15 PM
Trichloroethene (TCE)	ND	0.203	D	mg/Kg-dry	10	8/13/2019 7:38:15 PM
Tetrachloroethene (PCE)	0.116	0.253	DJ	mg/Kg-dry	10	8/13/2019 7:38:15 PM
Surr: Dibromofluoromethane	102	56.5 - 129	D	%Rec	10	8/13/2019 7:38:15 PM
Surr: Toluene-d8	100	64.5 - 151	D	%Rec	10	8/13/2019 7:38:15 PM
Surr: 1-Bromo-4-fluorobenzene	93.1	54.8 - 168	D	%Rec	10	8/13/2019 7:38:15 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53207

Analyst: ZR

Percent Moisture	14.4	0.500		wt%	1	8/13/2019 9:14:32 AM
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**Lab ID:** 1908174-006

**Collection Date:** 8/13/2019 7:48:00 AM

**Client Sample ID:** 02-11-202-10.5

**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	0.284	D	mg/Kg-dry	10	8/13/2019 8:08:24 PM
cis-1,2-Dichloroethene	ND	0.228	D	mg/Kg-dry	10	8/13/2019 8:08:24 PM
Trichloroethene (TCE)	ND	0.228	D	mg/Kg-dry	10	8/13/2019 8:08:24 PM
Tetrachloroethene (PCE)	0.261	0.284	DJ	mg/Kg-dry	10	8/13/2019 8:08:24 PM
Surr: Dibromofluoromethane	103	56.5 - 129	D	%Rec	10	8/13/2019 8:08:24 PM
Surr: Toluene-d8	99.6	64.5 - 151	D	%Rec	10	8/13/2019 8:08:24 PM
Surr: 1-Bromo-4-fluorobenzene	96.0	54.8 - 168	D	%Rec	10	8/13/2019 8:08:24 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53207

Analyst: ZR

Percent Moisture	25.0	0.500		wt%	1	8/13/2019 9:14:32 AM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908174-007

**Collection Date:** 8/13/2019 8:10:00 AM

**Client Sample ID:** TB-081319

**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	0.0250		mg/Kg	1	8/13/2019 4:37:21 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/13/2019 4:37:21 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/13/2019 4:37:21 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/13/2019 4:37:21 PM
Surr: Dibromofluoromethane	96.7	56.5 - 129		%Rec	1	8/13/2019 4:37:21 PM
Surr: Toluene-d8	98.0	64.5 - 151		%Rec	1	8/13/2019 4:37:21 PM
Surr: 1-Bromo-4-fluorobenzene	95.3	54.8 - 168		%Rec	1	8/13/2019 4:37:21 PM



**Work Order:** 1908174  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25479</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>8/13/2019</b>	RunNo: <b>53233</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>25479</b>				Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1052325</b>					
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: <b>MB-25479</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>8/13/2019</b>	RunNo: <b>53233</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>25479</b>				Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1052326</b>					
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: <b>1908174-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>8/13/2019</b>	RunNo: <b>53233</b>					
Client ID: <b>02-11-205-10.5</b>	Batch ID: <b>25479</b>				Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1052299</b>					
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:** 1908174  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1908174-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/13/2019</b>	RunNo: <b>53233</b>							
Client ID: <b>02-11-205-10.5</b>	Batch ID: <b>25479</b>		Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1052299</b>							
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: <b>1908174-006BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/13/2019</b>	RunNo: <b>53233</b>							
Client ID: <b>02-11-202-10.5</b>	Batch ID: <b>25479</b>		Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1052307</b>							
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: <b>1908174-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/13/2019</b>	RunNo: <b>53233</b>							
Client ID: <b>02-09-206-09</b>	Batch ID: <b>25479</b>		Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1052301</b>							
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

**Work Order:** 1908174  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1908174-002BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/13/2019</b>	RunNo: <b>53233</b>
Client ID: <b>02-09-206-09</b>	Batch ID: <b>25479</b>		Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1052302</b>

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

**Work Order:** 1908174  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1908162-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/13/2019</b>	RunNo: <b>53207</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R53207</b>		Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1051665</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	13.4	0.500						12.40	8.04	20	

Sample ID: <b>1908157-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/13/2019</b>	RunNo: <b>53207</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R53207</b>		Analysis Date: <b>8/13/2019</b>	SeqNo: <b>1051677</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	6.15	0.500						6.004	2.43	20	

Client Name: **PES**  
 Logged by: **Carissa True**

Work Order Number: **1908174**  
 Date Received: **8/13/2019 8:30:00 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   
 7. Were all items received at a temperature of >0°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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler 1	13.5
Sample 1	22.7
Temp Blank 1	15.9

\* 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: 8/13/19 Page: 1 of 1  
Project Name: AMERICAN LIVEN

Laboratory Project No (Internal): 1908174  
Special Remarks: SELECT VOCs: PCE, TCE, CIS-1,2

Client: PES ENVIRONMENTAL INC.  
Address: 1215 4th Ave STE 1350  
City, State, zip: Seattle, WA 98161

Project No: 1413.001.05.402  
Collected by: R. McLAUGHLIN/K. SPINNEY

Location: SEATTLE USA  
Report To (PM): B. ONEAL  
PM Email: BONAL@PES

Telephone: 206-529-3980  
Fax: 206-529-3985

Report To (PM): B. ONEAL  
PM Email: BONAL@PES

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

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													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 (C)***	EDB (801)			
1 02-11-205-10.5	8-13-19	0738	S	X															
2 02-09-206-09		0746	S	X															
3 02-11-203-09.5		0743	S	X															
4 02-09-207-09		0754	S	X															
5 02-11-204-09.5		0751	S	X															
6 02-11-202-10.5		0748	S	X															
7 TB-081319		0810	S	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 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.

Reinquired: *[Signature]* Date/Time: 8-13-19/029  
 Received: *[Signature]* Date/Time: 8/13/19 8:30  
 Reinquished: *[Signature]* Date/Time: *[Blank]*

Turn-around Time:  
 Standard  
 3 Day  
 2 Day  
 Next Day  
 Same Day *[Signature]*



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: 1908243**

August 19, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 8 sample(s) on 8/16/2019 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 08/19/2019

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1908243

## Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908243-001	02-07-202-05.5	08/16/2019 11:25 AM	08/16/2019 11:56 AM
1908243-002	02-09-204-07.5	08/16/2019 11:17 AM	08/16/2019 11:56 AM
1908243-003	02-09-202-07	08/16/2019 11:22 AM	08/16/2019 11:56 AM
1908243-004	02-07-203-06	08/16/2019 11:15 AM	08/16/2019 11:56 AM
1908243-005	02-09-203-07	08/16/2019 11:10 AM	08/16/2019 11:56 AM
1908243-006	02-09-205-07.5	08/16/2019 11:30 AM	08/16/2019 11:56 AM
1908243-007	B-964-5	08/16/2019 9:10 AM	08/16/2019 11:56 AM
1908243-008	Trip Blank	08/16/2019 11:32 AM	08/16/2019 11:56 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



**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908243-001

**Collection Date:** 8/16/2019 11:25:00 AM

**Client Sample ID:** 02-07-202-05.5

**Matrix:** Soil

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

Batch ID: 25535

Analyst: KT

Vinyl chloride	ND	0.266	D	mg/Kg-dry	10	8/17/2019 1:34:27 AM
cis-1,2-Dichloroethene	ND	0.213	D	mg/Kg-dry	10	8/17/2019 1:34:27 AM
Trichloroethene (TCE)	ND	0.213	D	mg/Kg-dry	10	8/17/2019 1:34:27 AM
Tetrachloroethene (PCE)	0.278	0.266	D	mg/Kg-dry	10	8/17/2019 1:34:27 AM
Surr: Dibromofluoromethane	95.8	56.5 - 129	D	%Rec	10	8/17/2019 1:34:27 AM
Surr: Toluene-d8	97.3	64.5 - 151	D	%Rec	10	8/17/2019 1:34:27 AM
Surr: 1-Bromo-4-fluorobenzene	96.3	54.8 - 168	D	%Rec	10	8/17/2019 1:34:27 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53306

Analyst: SBM

Percent Moisture	18.6	0.500		wt%	1	8/16/2019 1:17:01 PM
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**Lab ID:** 1908243-002

**Collection Date:** 8/16/2019 11:17:00 AM

**Client Sample ID:** 02-09-204-07.5

**Matrix:** Soil

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

Batch ID: 25535

Analyst: KT

Vinyl chloride	ND	0.289	D	mg/Kg-dry	10	8/17/2019 2:04:36 AM
cis-1,2-Dichloroethene	ND	0.231	D	mg/Kg-dry	10	8/17/2019 2:04:36 AM
Trichloroethene (TCE)	ND	0.231	D	mg/Kg-dry	10	8/17/2019 2:04:36 AM
Tetrachloroethene (PCE)	22.2	0.289	D	mg/Kg-dry	10	8/17/2019 2:04:36 AM
Surr: Dibromofluoromethane	96.0	56.5 - 129	D	%Rec	10	8/17/2019 2:04:36 AM
Surr: Toluene-d8	97.4	64.5 - 151	D	%Rec	10	8/17/2019 2:04:36 AM
Surr: 1-Bromo-4-fluorobenzene	96.8	54.8 - 168	D	%Rec	10	8/17/2019 2:04:36 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53306

Analyst: SBM

Percent Moisture	23.7	0.500		wt%	1	8/16/2019 1:17:01 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908243-003

**Collection Date:** 8/16/2019 11:22:00 AM

**Client Sample ID:** 02-09-202-07

**Matrix:** Soil

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

Batch ID: 25535

Analyst: KT

Vinyl chloride	ND	0.232	D	mg/Kg-dry	10	8/17/2019 2:34:44 AM
cis-1,2-Dichloroethene	ND	0.185	D	mg/Kg-dry	10	8/17/2019 2:34:44 AM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	8/17/2019 2:34:44 AM
Tetrachloroethene (PCE)	0.230	0.232	DJ	mg/Kg-dry	10	8/17/2019 2:34:44 AM
Surr: Dibromofluoromethane	95.9	56.5 - 129	D	%Rec	10	8/17/2019 2:34:44 AM
Surr: Toluene-d8	97.7	64.5 - 151	D	%Rec	10	8/17/2019 2:34:44 AM
Surr: 1-Bromo-4-fluorobenzene	94.9	54.8 - 168	D	%Rec	10	8/17/2019 2:34:44 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53306

Analyst: SBM

Percent Moisture	17.4	0.500		wt%	1	8/16/2019 1:17:01 PM
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**Lab ID:** 1908243-004

**Collection Date:** 8/16/2019 11:15:00 AM

**Client Sample ID:** 02-07-203-06

**Matrix:** Soil

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

Batch ID: 25535

Analyst: KT

Vinyl chloride	ND	0.276	D	mg/Kg-dry	10	8/17/2019 3:04:53 AM
cis-1,2-Dichloroethene	ND	0.221	D	mg/Kg-dry	10	8/17/2019 3:04:53 AM
Trichloroethene (TCE)	ND	0.221	D	mg/Kg-dry	10	8/17/2019 3:04:53 AM
Tetrachloroethene (PCE)	0.224	0.276	DJ	mg/Kg-dry	10	8/17/2019 3:04:53 AM
Surr: Dibromofluoromethane	96.4	56.5 - 129	D	%Rec	10	8/17/2019 3:04:53 AM
Surr: Toluene-d8	97.6	64.5 - 151	D	%Rec	10	8/17/2019 3:04:53 AM
Surr: 1-Bromo-4-fluorobenzene	97.0	54.8 - 168	D	%Rec	10	8/17/2019 3:04:53 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53306

Analyst: SBM

Percent Moisture	18.5	0.500		wt%	1	8/16/2019 1:17:01 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908243-005

**Collection Date:** 8/16/2019 11:10:00 AM

**Client Sample ID:** 02-09-203-07

**Matrix:** Soil

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

Batch ID: 25535

Analyst: KT

Vinyl chloride	ND	0.241	D	mg/Kg-dry	10	8/17/2019 3:35:02 AM
cis-1,2-Dichloroethene	ND	0.192	D	mg/Kg-dry	10	8/17/2019 3:35:02 AM
Trichloroethene (TCE)	ND	0.192	D	mg/Kg-dry	10	8/17/2019 3:35:02 AM
Tetrachloroethene (PCE)	1.51	0.241	D	mg/Kg-dry	10	8/17/2019 3:35:02 AM
Surr: Dibromofluoromethane	95.7	56.5 - 129	D	%Rec	10	8/17/2019 3:35:02 AM
Surr: Toluene-d8	97.5	64.5 - 151	D	%Rec	10	8/17/2019 3:35:02 AM
Surr: 1-Bromo-4-fluorobenzene	95.2	54.8 - 168	D	%Rec	10	8/17/2019 3:35:02 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53306

Analyst: SBM

Percent Moisture	15.5	0.500		wt%	1	8/16/2019 1:17:01 PM
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**Lab ID:** 1908243-006

**Collection Date:** 8/16/2019 11:30:00 AM

**Client Sample ID:** 02-09-205-07.5

**Matrix:** Soil

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

Batch ID: 25535

Analyst: KT

Vinyl chloride	ND	0.274	D	mg/Kg-dry	10	8/17/2019 4:05:11 AM
cis-1,2-Dichloroethene	ND	0.219	D	mg/Kg-dry	10	8/17/2019 4:05:11 AM
Trichloroethene (TCE)	ND	0.219	D	mg/Kg-dry	10	8/17/2019 4:05:11 AM
Tetrachloroethene (PCE)	0.332	0.274	D	mg/Kg-dry	10	8/17/2019 4:05:11 AM
Surr: Dibromofluoromethane	95.5	56.5 - 129	D	%Rec	10	8/17/2019 4:05:11 AM
Surr: Toluene-d8	97.0	64.5 - 151	D	%Rec	10	8/17/2019 4:05:11 AM
Surr: 1-Bromo-4-fluorobenzene	95.8	54.8 - 168	D	%Rec	10	8/17/2019 4:05:11 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53306

Analyst: SBM

Percent Moisture	17.2	0.500		wt%	1	8/16/2019 1:17:01 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908243-007

**Collection Date:** 8/16/2019 9:10:00 AM

**Client Sample ID:** B-964-5

**Matrix:** Soil

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

Batch ID: 25535

Analyst: KT

Vinyl chloride	ND	0.274	D	mg/Kg-dry	10	8/17/2019 4:35:18 AM
cis-1,2-Dichloroethene	ND	0.219	D	mg/Kg-dry	10	8/17/2019 4:35:18 AM
Trichloroethene (TCE)	ND	0.219	D	mg/Kg-dry	10	8/17/2019 4:35:18 AM
Tetrachloroethene (PCE)	0.173	0.274	DJ	mg/Kg-dry	10	8/17/2019 4:35:18 AM
Surr: Dibromofluoromethane	94.9	56.5 - 129	D	%Rec	10	8/17/2019 4:35:18 AM
Surr: Toluene-d8	96.3	64.5 - 151	D	%Rec	10	8/17/2019 4:35:18 AM
Surr: 1-Bromo-4-fluorobenzene	95.1	54.8 - 168	D	%Rec	10	8/17/2019 4:35:18 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R53306

Analyst: SBM

Percent Moisture	12.4	0.500		wt%	1	8/16/2019 1:17:01 PM
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**Lab ID:** 1908243-008

**Collection Date:** 8/16/2019 11:32:00 AM

**Client Sample ID:** Trip Blank

**Matrix:** Soil

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

Batch ID: 25535

Analyst: KT

Vinyl chloride	ND	0.0250		mg/Kg	1	8/17/2019 12:04:02 AM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/17/2019 12:04:02 AM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/17/2019 12:04:02 AM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/17/2019 12:04:02 AM
Surr: Dibromofluoromethane	95.2	56.5 - 129		%Rec	1	8/17/2019 12:04:02 AM
Surr: Toluene-d8	97.0	64.5 - 151		%Rec	1	8/17/2019 12:04:02 AM
Surr: 1-Bromo-4-fluorobenzene	96.1	54.8 - 168		%Rec	1	8/17/2019 12:04:02 AM

Work Order: 1908243  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>LCS-25535</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>8/16/2019</b>	RunNo: <b>53321</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>25535</b>				Analysis Date: <b>8/16/2019</b>	SeqNo: <b>1054514</b>					
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	1.01	0.0200	1.000	0	101	71.3	135				
Trichloroethene (TCE)	1.01	0.0200	1.000	0	101	65.5	137				
Tetrachloroethene (PCE)	1.03	0.0250	1.000	0	103	52.7	150				
Surr: Dibromofluoromethane	1.23		1.250		98.5	56.5	129				
Surr: Toluene-d8	1.21		1.250		96.9	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		96.1	54.8	168				

Sample ID: <b>MB-25535</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>8/16/2019</b>	RunNo: <b>53321</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>25535</b>				Analysis Date: <b>8/16/2019</b>	SeqNo: <b>1054515</b>					
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		94.6	56.5	129				
Surr: Toluene-d8	1.20		1.250		96.4	64.5	151				
Surr: 1-Bromo-4-fluorobenzene	1.21		1.250		97.0	54.8	168				

Sample ID: <b>1908234-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>8/16/2019</b>	RunNo: <b>53321</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>25535</b>				Analysis Date: <b>8/17/2019</b>	SeqNo: <b>1054492</b>					
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)	0.406	0.270						0.4296	5.61	30	D
Surr: Dibromofluoromethane	12.9		13.50		95.3	56.5	129		0		D
Surr: Toluene-d8	13.1		13.50		97.2	64.5	151		0		D

Work Order: 1908243  
 CLIENT: PES Environmental, Inc.  
 Project: American Linen

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

Sample ID: <b>1908234-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/16/2019</b>	RunNo: <b>53321</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25535</b>		Analysis Date: <b>8/17/2019</b>	SeqNo: <b>1054492</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	12.9		13.50		95.5	54.8	168		0		D
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Sample ID: <b>1908243-007BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/16/2019</b>	RunNo: <b>53321</b>							
Client ID: <b>B-964-5</b>	Batch ID: <b>25535</b>		Analysis Date: <b>8/17/2019</b>	SeqNo: <b>1054501</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.274						0	0	30	D
cis-1,2-Dichloroethene	ND	0.219						0	0	30	D
Trichloroethene (TCE)	ND	0.219						0	0	30	D
Tetrachloroethene (PCE)	0.181	0.274						0.1734	4.30	30	DJ
Surr: Dibromofluoromethane	12.9		13.68		94.2	56.5	129		0		D
Surr: Toluene-d8	13.3		13.68		97.5	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	13.0		13.68		95.2	54.8	168		0		D

Sample ID: <b>1908247-005BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/16/2019</b>	RunNo: <b>53321</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25535</b>		Analysis Date: <b>8/17/2019</b>	SeqNo: <b>1054508</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	9.82	0.272	10.87	0	90.4	43.6	150				D
cis-1,2-Dichloroethene	10.3	0.217	10.87	0	94.9	58.6	136				D
Trichloroethene (TCE)	10.9	0.217	10.87	0	101	61.6	147				D
Tetrachloroethene (PCE)	11.4	0.272	10.87	1.233	94.0	35.6	158				D
Surr: Dibromofluoromethane	13.0		13.58		95.7	56.5	129				D
Surr: Toluene-d8	13.1		13.58		96.6	64.5	151				D
Surr: 1-Bromo-4-fluorobenzene	12.8		13.58		94.6	54.8	168				D

**Work Order:** 1908243  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1908247-005BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/16/2019</b>	RunNo: <b>53321</b>
Client ID: <b>BATCH</b>	Batch ID: <b>25535</b>		Analysis Date: <b>8/17/2019</b>	SeqNo: <b>1054509</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	9.72	0.272	10.87	0	89.5	43.6	150	9.824	1.04	30	D
cis-1,2-Dichloroethene	10.4	0.217	10.87	0	95.4	58.6	136	10.32	0.455	30	D
Trichloroethene (TCE)	10.7	0.217	10.87	0	98.6	61.6	147	10.93	1.97	30	D
Tetrachloroethene (PCE)	11.5	0.272	10.87	1.233	94.7	35.6	158	11.44	0.718	30	D
Surr: Dibromofluoromethane	13.1		13.58		96.7	56.5	129		0		D
Surr: Toluene-d8	13.0		13.58		95.6	64.5	151		0		D
Surr: 1-Bromo-4-fluorobenzene	12.8		13.58		94.5	54.8	168		0		D

**Work Order:** 1908243  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1908236-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/16/2019</b>	RunNo: <b>53306</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R53306</b>		Analysis Date: <b>8/16/2019</b>	SeqNo: <b>1054149</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	20.2	0.500						25.32	22.2	20	R

**NOTES:**

R - High RPD observed.

Sample ID: <b>1908247-005ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/16/2019</b>	RunNo: <b>53306</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R53306</b>		Analysis Date: <b>8/16/2019</b>	SeqNo: <b>1054273</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	15.6	0.500						17.66	12.5	20	

Client Name: **PES**  
 Logged by: **Carissa True**

Work Order Number: **1908243**  
 Date Received: **8/16/2019 11:56:00 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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler 1	7.1
Sample 1	8.9

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





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: 1908277**

August 21, 2019

**Attention Brian O'Neal:**

Fremont Analytical, Inc. received 7 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,

A handwritten signature in blue ink, appearing to read "Brianna Barnes".

Brianna Barnes  
Project Manager

**CC:**

Dan Balbiani  
Karsten Springstead  
Kim Vik



Date: 08/21/2019

---

**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen  
**Work Order:** 1908277

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1908277-001	03-13-BE1-12	08/20/2019 10:10 AM	08/20/2019 12:10 PM
1908277-002	03-13-BE-12	08/20/2019 10:15 AM	08/20/2019 12:10 PM
1908277-003	TB-082019	08/20/2019 10:00 AM	08/20/2019 12:10 PM
1908277-004	02-09-207-07	08/20/2019 11:20 AM	08/20/2019 12:10 PM
1908277-005	02-07-207-05.5	08/20/2019 11:25 AM	08/20/2019 12:10 PM
1908277-006	02-09-208-07.5	08/20/2019 11:30 AM	08/20/2019 12:10 PM
1908277-007	02-07-208-06	08/20/2019 11:35 AM	08/20/2019 12:10 PM

**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

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**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.

8/21/19: Rev1 includes data for remaining samples.

### 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.

**Project:** American Linen

**Lab ID:** 1908277-001

**Collection Date:** 8/20/2019 10:10:00 AM

**Client Sample ID:** 03-13-BE1-12

**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	0.246	D	mg/Kg-dry	10	8/20/2019 5:08:55 PM
cis-1,2-Dichloroethene	ND	0.197	D	mg/Kg-dry	10	8/20/2019 5:08:55 PM
Trichloroethene (TCE)	1.28	0.197	D	mg/Kg-dry	10	8/20/2019 5:08:55 PM
Tetrachloroethene (PCE)	24.8	2.46	D	mg/Kg-dry	100	8/21/2019 8:26:52 AM
Surr: Dibromofluoromethane	97.8	56.5 - 129	D	%Rec	10	8/20/2019 5:08:55 PM
Surr: Toluene-d8	97.9	64.5 - 151	D	%Rec	10	8/20/2019 5:08:55 PM
Surr: 1-Bromo-4-fluorobenzene	103	54.8 - 168	D	%Rec	10	8/20/2019 5:08:55 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53371

Analyst: CG

Percent Moisture	7.56	0.500		wt%	1	8/20/2019 1:42:24 PM
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**Lab ID:** 1908277-002

**Collection Date:** 8/20/2019 10:15:00 AM

**Client Sample ID:** 03-13-BE-12

**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	0.232	D	mg/Kg-dry	10	8/20/2019 5:39:01 PM
cis-1,2-Dichloroethene	ND	0.185	D	mg/Kg-dry	10	8/20/2019 5:39:01 PM
Trichloroethene (TCE)	ND	0.185	D	mg/Kg-dry	10	8/20/2019 5:39:01 PM
Tetrachloroethene (PCE)	ND	0.232	D	mg/Kg-dry	10	8/20/2019 5:39:01 PM
Surr: Dibromofluoromethane	98.0	56.5 - 129	D	%Rec	10	8/20/2019 5:39:01 PM
Surr: Toluene-d8	97.9	64.5 - 151	D	%Rec	10	8/20/2019 5:39:01 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	8/20/2019 5:39:01 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53371

Analyst: CG

Percent Moisture	8.56	0.500		wt%	1	8/20/2019 1:42:24 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908277-003

**Collection Date:** 8/20/2019 10:00:00 AM

**Client Sample ID:** TB-082019

**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	0.0250		mg/Kg	1	8/20/2019 6:09:08 PM
cis-1,2-Dichloroethene	ND	0.0200		mg/Kg	1	8/20/2019 6:09:08 PM
Trichloroethene (TCE)	ND	0.0200		mg/Kg	1	8/20/2019 6:09:08 PM
Tetrachloroethene (PCE)	ND	0.0250		mg/Kg	1	8/20/2019 6:09:08 PM
Surr: Dibromofluoromethane	91.2	56.5 - 129		%Rec	1	8/20/2019 6:09:08 PM
Surr: Toluene-d8	96.8	64.5 - 151		%Rec	1	8/20/2019 6:09:08 PM
Surr: 1-Bromo-4-fluorobenzene	100	54.8 - 168		%Rec	1	8/20/2019 6:09:08 PM

**Lab ID:** 1908277-004

**Collection Date:** 8/20/2019 11:20:00 AM

**Client Sample ID:** 02-09-207-07

**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	0.228	D	mg/Kg-dry	10	8/20/2019 2:38:17 PM
cis-1,2-Dichloroethene	ND	0.182	D	mg/Kg-dry	10	8/20/2019 2:38:17 PM
Trichloroethene (TCE)	ND	0.182	D	mg/Kg-dry	10	8/20/2019 2:38:17 PM
Tetrachloroethene (PCE)	0.756	0.228	D	mg/Kg-dry	10	8/20/2019 2:38:17 PM
Surr: Dibromofluoromethane	97.7	56.5 - 129	D	%Rec	10	8/20/2019 2:38:17 PM
Surr: Toluene-d8	97.3	64.5 - 151	D	%Rec	10	8/20/2019 2:38:17 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	8/20/2019 2:38:17 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53371

Analyst: CG

Percent Moisture	17.4	0.500		wt%	1	8/20/2019 1:42:24 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908277-005

**Collection Date:** 8/20/2019 11:25:00 AM

**Client Sample ID:** 02-07-207-05.5

**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	0.255	D	mg/Kg-dry	10	8/20/2019 3:08:24 PM
cis-1,2-Dichloroethene	ND	0.204	D	mg/Kg-dry	10	8/20/2019 3:08:24 PM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	8/20/2019 3:08:24 PM
Tetrachloroethene (PCE)	2.80	0.255	D	mg/Kg-dry	10	8/20/2019 3:08:24 PM
Surr: Dibromofluoromethane	98.2	56.5 - 129	D	%Rec	10	8/20/2019 3:08:24 PM
Surr: Toluene-d8	98.8	64.5 - 151	D	%Rec	10	8/20/2019 3:08:24 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	8/20/2019 3:08:24 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53371

Analyst: CG

Percent Moisture	12.8	0.500		wt%	1	8/20/2019 1:42:24 PM
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**Lab ID:** 1908277-006

**Collection Date:** 8/20/2019 11:30:00 AM

**Client Sample ID:** 02-09-208-07.5

**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	0.255	D	mg/Kg-dry	10	8/20/2019 3:38:32 PM
cis-1,2-Dichloroethene	ND	0.204	D	mg/Kg-dry	10	8/20/2019 3:38:32 PM
Trichloroethene (TCE)	ND	0.204	D	mg/Kg-dry	10	8/20/2019 3:38:32 PM
Tetrachloroethene (PCE)	ND	0.255	D	mg/Kg-dry	10	8/20/2019 3:38:32 PM
Surr: Dibromofluoromethane	96.7	56.5 - 129	D	%Rec	10	8/20/2019 3:38:32 PM
Surr: Toluene-d8	97.8	64.5 - 151	D	%Rec	10	8/20/2019 3:38:32 PM
Surr: 1-Bromo-4-fluorobenzene	101	54.8 - 168	D	%Rec	10	8/20/2019 3:38:32 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53371

Analyst: CG

Percent Moisture	18.8	0.500		wt%	1	8/20/2019 1:42:24 PM
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**CLIENT:** PES Environmental, Inc.

**Project:** American Linen

**Lab ID:** 1908277-007

**Collection Date:** 8/20/2019 11:35:00 AM

**Client Sample ID:** 02-07-208-06

**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	0.237	D	mg/Kg-dry	10	8/20/2019 4:08:41 PM
cis-1,2-Dichloroethene	ND	0.189	D	mg/Kg-dry	10	8/20/2019 4:08:41 PM
Trichloroethene (TCE)	ND	0.189	D	mg/Kg-dry	10	8/20/2019 4:08:41 PM
Tetrachloroethene (PCE)	ND	0.237	D	mg/Kg-dry	10	8/20/2019 4:08:41 PM
Surr: Dibromofluoromethane	99.6	56.5 - 129	D	%Rec	10	8/20/2019 4:08:41 PM
Surr: Toluene-d8	99.2	64.5 - 151	D	%Rec	10	8/20/2019 4:08:41 PM
Surr: 1-Bromo-4-fluorobenzene	102	54.8 - 168	D	%Rec	10	8/20/2019 4:08:41 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R53371

Analyst: CG

Percent Moisture	16.4	0.500		wt%	1	8/20/2019 1:42:24 PM
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**Work Order:** 1908277  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>LCS-25537</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>8/19/2019</b>	RunNo: <b>53372</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>25537</b>					Analysis Date: <b>8/20/2019</b>	SeqNo: <b>1055848</b>				
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: <b>MB-25537</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>8/19/2019</b>	RunNo: <b>53372</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>25537</b>					Analysis Date: <b>8/20/2019</b>	SeqNo: <b>1055849</b>				
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: <b>1908277-007BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>8/19/2019</b>	RunNo: <b>53372</b>				
Client ID: <b>02-07-208-06</b>	Batch ID: <b>25537</b>					Analysis Date: <b>8/20/2019</b>	SeqNo: <b>1055937</b>				
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:** 1908277  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1908277-007BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/19/2019</b>	RunNo: <b>53372</b>							
Client ID: <b>02-07-208-06</b>	Batch ID: <b>25537</b>		Analysis Date: <b>8/20/2019</b>	SeqNo: <b>1055937</b>							
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: <b>1908231-002BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/19/2019</b>	RunNo: <b>53372</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25537</b>		Analysis Date: <b>8/20/2019</b>	SeqNo: <b>1055926</b>							
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: <b>1908246-001BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/19/2019</b>	RunNo: <b>53372</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>25537</b>		Analysis Date: <b>8/21/2019</b>	SeqNo: <b>1055927</b>							
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:** 1908277  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

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

Sample ID: <b>1908246-001BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/19/2019</b>	RunNo: <b>53372</b>
Client ID: <b>BATCH</b>	Batch ID: <b>25537</b>		Analysis Date: <b>8/21/2019</b>	SeqNo: <b>1055928</b>

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		

**Work Order:** 1908277  
**CLIENT:** PES Environmental, Inc.  
**Project:** American Linen

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1908277-004ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/20/2019</b>	RunNo: <b>53371</b>							
Client ID: <b>02-09-207-07</b>	Batch ID: <b>R53371</b>		Analysis Date: <b>8/20/2019</b>	SeqNo: <b>1055805</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	16.6	0.500						17.43	4.90	20	

Sample ID: <b>1908277-007ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/20/2019</b>	RunNo: <b>53371</b>							
Client ID: <b>02-07-208-06</b>	Batch ID: <b>R53371</b>		Analysis Date: <b>8/20/2019</b>	SeqNo: <b>1055832</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	16.3	0.500						16.42	0.970	20	

Client Name: **PES**  
 Logged by: **Carissa True**

Work Order Number: **1908277**  
 Date Received: **8/20/2019 12:10:00 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°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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler 1	2.5
Sample 1	3.7

\* 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: 20 August 2019 Page: 1 of: 2

Project Name: American Lines

Project No: 1413-00105-402

Collected by: Karas Zygas / B. Hecht

Location: Seattle, WA

Report To (PM): Brian Ornd

PM Email: BORENH@PESBW.COM

Laboratory Project No (Internal): 1908277

Special Remarks: Select List VOC's: PCE, TCE, Cis-1,2 DCE, 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 (C)***	EDB (8011)	Comments
1 <u>03-13-BE1-12</u>	<u>8/20/19</u>	<u>1010</u>	<u>S</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
2 <u>03-13-BE-12</u>	<u>↓</u>	<u>1015</u>	<u>↓</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											
3 <u>TB-082019</u>	<u>↑</u>	<u>1000</u>	<u>↑</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>											<u>Trip Bank</u>
4																	
5																	
6																	
7																	
8																	
9																	
10																	

\*Matrix: A = Air, AO = 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): MTCAS 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 BSR BS Date/Time 8-20-19 @ 1210

Received [Signature] Date/Time 8/20/19 1210

Relinquished X Date/Time \_\_\_\_\_

Received X Date/Time \_\_\_\_\_

Turn-around Time:  Standard  3 Day  2 Day  Next Day  Same Day 24hr (specify)



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

### Chain of Custody Record & Laboratory Services Agreement

Date: 20 Aug. 2019 Page: 2 of 2

Project Name: American Lines

Project No: 1413.001.BS.402

Collected by: Kovas Zygas / B. Hecht

Location: Seattle, WA

Report To (PM): Brian Ornel

PM Email: BONVAL@PESENV.COM

Laboratory Project No (Internal): 1908277

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

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

Client: PES Environmental  
Address: 1215 4th Ave Suite 1350  
City, State, Zip: Seattle, WA 98101  
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 - SIM)	PAHs (EPA 8270 - 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)   Dissolved (D)	Anions (C)***	EDB (8011)	Comments
1 02-09-207-07	8/20/19	1120	S	X													WED 8/21 AM ASAP TAT
2 02-07-207-055		1125	S	X													
3 02-09-208-075		1130	S	X													
4 02-07-208-06		1135	S	X													
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 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: [Signature] Date/Time: 8-20-19 @ 12:10  
 Received: [Signature] Date/Time: 8/20/19 12:10  
 Relinquished: [Signature] Date/Time: 8/20/19 12:10  
 Received: [Signature] Date/Time: 8/20/19 12:10