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RECEIVED

By Alameda County Environmental Health 10:23 am, Nov 04, 201;

November 3, 2015

Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, California 94502 Attention: Mr. Mark Detterman, PG, CEG

Transmittal
Report of Results
Supplemental Subsurface Investigation
39155 and 39183 State Street
Fremont, California

Dear Mr. Detterman:

Submitted herewith for your review is the *Report of Results, Supplemental Subsurface Investigation, 39155 and 39183 State Street, Fremont, California* prepared by PES Environmental, Inc.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

Very truly yours,

Clifford Nguyen

Urban Initiatives Manager



MEMORANDUM

To: Ms. Denise Cunningham

SummerHill Homes

From: Justin J. Patterson

Carl J. Michelsen, P.G., C.HG.

PES Environmental, Inc.

Date: October 20, 2015

Subject: Report of Results

Supplemental Subsurface Investigation

39155 and 39183 State Street, Fremont, California

Project No.: 220.003.02.001

This memorandum presents the results of supplemental Phase II soil and soil gas testing conducted at the largely vacant property located at 39155 and 39183 State Street in Fremont, California (the site; see Plate 1). Fremont State Street Center, LLC plans to redevelop the property with commercial retail/residential buildings with subsurface parking along the northwestern portion of the site, and slab-on-grade residential buildings to the southeast¹.

We understand redevelopment plans for the site include grading and soil excavation for utilities and construction of a mixed residential/retail project with 157 residential dwelling units and approximately 21,000 square feet of retail area. Approximately 50 percent of the residences will be on-grade townhomes, the rest are podium townhomes and flats.

Prior subsurface investigations identified the volatile organic compound tetrachloroethylene (PCE) in soil vapor samples collected on the site at locations adjacent to and within State Street². The soil vapor appears to be the result of discharges of PCE into the sanitary sewer and/or storm drain by a prior dry cleaning establishment, Norge Cleaners, located at 39067 State Street. As documented in the letter from the Alameda County Water District (ACWD) to the current property owner, the City of Fremont, the site is not considered the source of the contamination³.

¹ CAD files provided by Ruggeri Jensen Azar (RJA) dated October 8, 2015.

² PES, 2015. Report of Results, Subsurface Investigation, 39155 and 39183 State Street, Fremont, California. February 12.

³ ACWD, 2015. Contamination Detected at 39144 and 39183 State Street, Fremont (ACWD Site #690). May 13.

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In addition, benzene was previously detected at a single location (boring B4) in the southern portion of the site at a concentration (510 micrograms per cubic meter $[\mu g/m^3]$) that exceeded the estimated site-specific soil vapor screening level (160 $\mu g/m^3$) provided in the February 12, 2015 PES report.

SCOPE OF WORK

This supplemental subsurface investigation was conducted on September 21, 2015 and included completing 10 borings (B41 through B50) for soil and/or soil vapor sample collection. The approximate locations of the borings are shown on Plate 2. The pre-field activities, sampling methods, analytical testing methods, and analytical results are discussed below. Drilling and sampling activities were conducted under the direction of a California-registered geologist.

Field Preparation Activities

PES prepared and submitted borehole drilling permit applications (a separate permit was required for the soil and soil vapor sampling borings) to the ACWD. Copies of the drilling permits are included as Attachment A to this report. As required by the Alameda County Department of Environmental Health (ACDEH; the lead agency for the subject property) and ACWD, a workplan for the soil and soil vapor sampling was submitted to both agencies for approval. In addition, ACWD was notified prior to beginning drilling activities so that an inspector could be present for grouting activities.

Comments on the workplan were received from ACDEH and the workplan was conditionally approved⁴. PES discussed the conditional approval with ACDEH and provided a summary of the conversation in an email dated August 13, 2015.

PES contacted Underground Service Alert at least 48 hours prior to the start of drilling activities. C. Cruz Sub-Surface Locators, Inc. (C. Cruz) of Milpitas, California, a private utility locating company, was retained to clear each boring location for subsurface utilities or other features. Additionally, PES coordinated with TEG – Northern California, Inc. (TEG) of Rancho Cordova, California, a licensed drilling contractor possessing a valid C-57 California water well contractor's license, to schedule the drilling, sampling, and mobile laboratory services. A site-specific Health and Safety Plan was prepared for the investigation.

⁴ ACDEH, 2015. Conditional Work Plan Approval: Site Cleanup Program Case No. RO0003176 and Geotracker Global ID T10000007102, Fremont Plaza Shopping Center, 39155 and 39183 State Street, Fremont, CA 94538.

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Sampling and Analytical Procedures

Under subcontract to PES, TEG utilized a truck-mounted direct-push drilling rig to advance the borings to depths ranging from 5 to 13 feet below ground surface (bgs). Four (4) soil borings were advanced in the vicinity of boring B4 to a depth of 5-feet bgs. One boring was located adjacent to boring B4, and three (3) borings were located at a distance of approximately 20 feet from boring B4. The drill rig encountered refusal at a depth of 5 feet bgs at all four boring locations in the vicinity of B4. Due to this refusal, the soil borings were sampled at two depth intervals (e.g., approximately 1 to 2 feet bgs and 3 to 4 feet bgs) for chemical analysis, rather than the three depth intervals that were planned in the workplan. In addition, soil boring B50 was advanced to 10-feet bgs approximately 45 feet southwest of B4, adjacent to the Nation's Giant Hamburgers, in order to obtain a deep soil sample in the vicinity. This boring was sampled at one depth interval, 9.0 to 10.0 feet bgs. PES observed the borehole drilling and prepared lithologic logs of the soil borings using the Unified Soil Classification System (USCS). The lithologic logs are presented as Attachment B.

Continuous soil cores were collected by driving a 4-foot long by 2-inch outside-diameter open-tube sampler into undisturbed soil. The open-tube sampler was lined with one 4-foot long, clear acetate sample sleeve. Soil samples were collected using pre-cleaned disposable scoops and placed in laboratory-supplied glass sample containers. Soil samples submitted for analysis by U.S. Environmental Protection Agency (U. S. EPA) Test Method 8260B were collected in accordance with U.S. EPA Test Method 5035 using Terracore™ samplers. The soil samples were labeled to indicate project location, job number, boring number, sample number, and time and date collected and then immediately placed in a thermally-insulated cooler containing ice. The samples were transported under chain-of-custody protocol to Test America, Inc. (Test America), a state-certified laboratory located in Pleasanton, California.

Soil samples were analyzed for volatile organic compounds (VOCs) by U.S. EPA Test Method 8260B, total petroleum hydrocarbons (TPH) quantified as gasoline (TPHg) by U.S. EPA Test Method 8015B, and TPH quantified as diesel and motor oil (TPHd/mo) by U.S. EPA Test Method 8015B with a silica gel cleanup included with the analysis. In addition, a split sample was collected at each location to analyze for TPHd/mo without silica gel cleanup, to accommodate an ACDEH requirement specified in the workplan approval letter.

A soil gas sample was collected at a depth of 5 feet bgs adjacent to boring B4 where the elevated concentration of benzene was detected previously. Again, due to the refusal mentioned above, a soil gas sample could not be collected at 10 feet bgs as specified in the workplan. In addition, three (3) soil gas samples were collected at depths of 5 feet bgs at a distance of 20 feet from boring B4.

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Two additional soil gas samples were collected from the northern portion of the site at a depth of 13 feet bgs. The proposed soil gas sample in the western portion of site was not collected due to time constraints.

Lastly, three soil gas samples were collected at five feet bgs from the "remnant parcel" on the southern portion of the site in the vicinity of the Nation's Giant Hamburger building.

Soil vapor sampling was performed in accordance with the most current guidance document: *Advisory - Active Soil Gas Investigations (Advisory)*, published by the California Environmental Protection Agency (Department of Toxic Substances Control [DTSC], California Regional Water Quality Control Board – Los Angeles Region, and RWQCB – San Francisco Region), dated July 2015. Prior to sampling, PES verified that no significant rainfall event (of greater than 0.5 inches, as described in the *Advisory*) had occurred within a 5–day period of the soil vapor sampling event.

Soil vapor samples were collected by installing a 1-inch diameter, hollow, stainless-steel soil vapor probe to the required sampling depth. The probes were equipped with a hardened, reverse-threaded steel tip. The probe was driven using the hydraulic direct-push rig. A hydrated bentonite seal was placed around the rods to minimize the potential for ambient air entering the sample. Upon reaching the desired depth, a continuous length of inert 1/4-inch outer diameter polypropylene Nylaflow® tubing was inserted down the center of the probe and threaded onto the sampling port. The probe was then raised approximately 4 inches to expose the soil vapor sampling ports.

To allow for the subsurface to equilibrate to representative conditions following probe placement with the direct-push method, the soil vapor sampling was conducted after a two-hour equilibration period.

Leak testing was conducted during the collection of soil vapor samples to evaluate the integrity of the sample and the potential for atmospheric leakage of ambient air. Leak testing was performed using 1,1-Difluoroethane (1,1-DFA) applied to a towel which was fitted around the probe at the surface while purging.

After reaching the specified sampling depth of 5 feet bgs and installing the soil gas sampling equipment as described above, soil vapor was withdrawn from the inert tubing using a syringe connected via a three-way valve. The purge volumes of the sampling tubing and void within the bottom of the exposed portion of the soil gas probes were calculated. As per the July 2015 DTSC guidance, three purge volumes were removed before sampling.

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Soil vapor samples were analyzed by TEG's on-site mobile laboratory (California-certified for the specified analyses) for VOCs by U.S. EPA Test Method 8260B. In addition, oxygen concentrations were measured by the mobile laboratory at each of the four soil vapor borings located adjacent to boring B4 and at boring B50 utilizing a thermal conductivity detector.

To reduce the potential for cross-contamination between sampling locations, downhole drilling and sampling equipment were thoroughly cleaned prior to initiating work and between sampling locations. Sampling equipment was washed in a dilute Alconox (or equivalent) solution, rinsed with potable water, and final rinsed with distilled water between each sampling location. Direct-push drilling equipment was decontaminated with a high-pressure hot water wash between sampling locations. Upon completion of sampling activities, each borehole was grouted to the surface with neat cement in accordance with ACWD requirements and with the oversight of the ACWD.

SOIL LITHOLOGY OBSERVATIONS

Observations made during drilling on the southern portion of the site, in the vicinity of boring B4, identified dark brown silty gravel to the total depth explored of 5 feet below grade. As mentioned previously, this layer is underlain by concrete debris that prohibited deeper soil sampling. Brick debris was identified in a single boring (B47) at a depth of 4 feet bgs. In addition, brown silt was observed in boring B50 adjacent to the Nation's Giant Hamburgers building to the total depth explored of 10 feet bgs. Copies of the boring logs are included as Attachment B.

ANALYTICAL RESULTS

Copies of the laboratory analytical reports and chain-of-custody documentation are presented in Attachment C. The analytical results for the soil and soil vapor samples are summarized in Tables 1 through Table 3. For completeness, the prior testing results (including metals and pesticides previously detected in soil, but not analyzed during this investigation) are also provided.

Soil Vapor Samples

As indicated on Table 1, several VOCs were identified during the September 2015 soil vapor investigation. However, at the boring B4 vicinity, only benzene was detected above the RWQCB residential Environmental Screening Level (ESL) for benzene ($42 \mu g/m^3$). As noted above, the observed local lithology at the boring B4 location was a silty gravel. As such the previous use of a site specific screening level for benzene in this area (using a clay rich soil) is not appropriate and the standard residential ESL was used for screening purposes. The

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borings that exceeded the ESL for benzene were B45, B46, and B47, at concentrations of 88 μ g/m³, 91 μ g/m³, and 710 μ g/m³, respectively. Note however that the prior detection of benzene at boring B4 (collected in October 2014) was not replicated in boring B44 that was sampled at this same location.

Oxygen concentrations measured in the five soil gas samples collected from borings B44 through B47 and B50, ranged from 14 to 21 percent oxygen by volume. As mentioned previously, TEG utilized the leak check compound 1,1-DFA during the investigation. The leak check compound was not detected at or above the laboratory reporting limit in any samples collected during the investigation.

Soil Samples

As indicated on Table 3, no VOCs were detected above their respective laboratory reporting limits, except for acetone. Acetone, a common laboratory contaminant, was detected at a concentration of 130 micrograms per kilogram (μ g/kg) in boring B44 at a depth of 1.0 to 2.0 feet bgs. This concentration is below the residential ESL.

TPH-g was not detected above the laboratory reporting limit in any of the soil samples. TPH-d was detected in borings B44 and B47 at levels exceeding the generic residential ESL of 100 mg/kg. TPH-d was measured at 190 mg/kg and 170 mg/kg in B44 and B47 respectively (note that the values with the silica gel cleanup were 140 mg/kg and 130 mg/kg in B44 and B47 respectively). However, all of TPH-d results are less than the human health-based and groundwater protection-based ESLs of 240 mg/kg and 570 mg/kg, respectively. TPH-mo was detected in borings B44, B45, B46 and B47 at levels exceeding the generic residential ESL of 100 mg/kg. TPH-mo levels ranged from 130 mg/kg to 1,400 mg/kg (note that the values with the silica gel cleanup ranged from 110 mg/kg to 850 mg/kg). However, all of TPH-mo results are less than the human health-based ESL of 10,000 mg/kg. In each case where the generic ESL was exceeded in the shallow soil sample, the deeper soil sample in the same boring had a lower concentration of TPHd and TPHmo, regardless of whether silica gel was used as a cleanup step prior to analysis.

DISCUSSION OF RESULTS AND CONCLUSIONS

Based on the results of this investigation, only benzene was detected at concentrations in soil gas above the residential ESL at borings B45, B46, and B47, located in the southern portion of the site. The detection of benzene in soil gas appears to be localized to this area and associated with the presence of concrete debris. Benzene and related VOCs (e.g., toluene, ethylbenzene, and xylenes) were not detected at concentrations in excess of the residential ESL in any of the soil samples collected from borings B44, B45, B46, B47, or B50.

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Oxygen concentrations measured in samples B44, B45, B46, B47, and B50 ranged from 14 to 21 percent oxygen by volume. The values confirm that shallow soils are oxygenated in the vicinity of boring B4 and conducive to benzene degradation. The absence of benzene in the boring B44 soil gas sample (collocated with boring B4) may reflect degradation and/or volatilization that occurred in the intervening year since the boring B4 soil gas sample was collected; or, this may a reflection of soil heterogeneity conditions.

Elevated levels of TPH-d and TPH-mo were detected in soil samples in the southern portion of the site. Concentrations of TPH-d above generic residential ESLs were detected in B44 and B47; however, TPH-d concentrations are below the human health-based and groundwater protection-based ESLs. Concentrations of TPH-mo above generic residential ESLs were detected in borings B44, B45, B46 and B47; however, TPH-mo concentrations are below the human health-based ESL. In addition, the only VOC detected in the soil samples was acetone in boring B44, at a concentration below the residential ESL.

Attachments: Table 1 – Summary of Soil Vapor Analytical Results

Table 2 – Summary of Analytical Results for Soil – Metals and Pesticides

Table 3 – Summary of Analytical Results for Soil – VOCs and TPH

Plates 1 and 2

A – ACWD Drilling Permits

B - Boring Logs

C – Laboratory Analytical Report and Chain of Custody Forms

PES Environmental, Inc.

TABLES

Table 1 Summary of Soil Vapor Analytical Results 39155 and 39183 State Street Fremont, California

Sample Location	Date Sampled	Sample Number	Sample Depth (feet bgs)	Purge Volume	PCE (µg/m³)	Benzene (µg/m³)	Toluene (μg/m³)	Ethyl- benzene (µg/m³)	m,p-Xylene (µg/m³)	o-Xylene (μg/m³)	Freon 11 (μg/m³)	Freon 12 (μg/m³)	Chloroform (µg/m³)	1,1-DFA (μg/m³)	Percent Oxygen
				•		On-Site					_				
B1	10/28/2014	B1-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	< 100	< 100	< 1000	
B2	10/28/2014	B2-SV	5.0	3	< 100	< 80	< 200 1800	< 100	< 200 360	< 100 140	120	1900	< 100	< 1000	
B4	10/27/2014	B4-SV	5.0	3	< 100 < 100	320 480	1500	< 100 160	520	140	< 100 < 100	1700 2300	160 160	< 1000 < 1000	
D4	10/27/2014	D4-3 V	5.0	5	< 100	510	780	230	690	260	< 100	2100	< 100	< 1000	
B5	10/27/2014	B5-SV	5.0	3	300	< 80	< 200	< 100	< 200	< 100	< 100	1000	< 100	< 1000	
B6	10/28/2014	B6-SV	5.0	3	< 100	97	< 200	< 100	< 200	< 100	< 100	240	< 100	< 1000	
B8	10/27/2014	B8-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	1600	6400	< 100	< 1000	
B9	10/28/2014	B9-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	110	< 100	< 100	< 1000	
B10	10/28/2014	B10-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	370	1400	< 100	< 1000	
B11	10/28/2014	B11-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	410	< 100	< 1000	
B12	10/28/2014	B12-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	1100	4100	< 100	< 1000	
B14	10/28/2014	B14-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	390	< 100	< 1000	
B15	10/28/2014	B15-SV	5.0	3	< 100	< 80	< 200	< 100	420	150	< 100	1800	< 100	< 1000	
B16	10/28/2014	B16-SV	5.0	3	550	< 80	< 200	< 100	< 200	< 100	160	2300	< 100	< 1000	
B17	10/28/2014	B17-SV	5.0	3	< 100	< 80	< 200	220	1100	350	460	1900	< 100	< 1000	
B18	10/28/2014	B18-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	210	< 100	< 1000	
B19	12/10/2014	B19-SV	10.0	3	330	< 80	< 200	< 100	< 200	< 100	< 100	1500	< 100	< 1000	
B20	12/10/2014	B20-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	320	3200	< 100	< 1000	
B21 B22	12/10/2014 12/10/2014	B21-SV B22-SV	5.0 5.0	3	8500 110	< 80 < 80	< 200 210	< 100 < 100	< 200 < 200	< 100 < 100	150 < 100	2000 400	< 100 < 100	< 1000 < 1000	
B22 B23	12/10/2014	B22-SV B23-SV	10.0	3	< 100	< 80 < 80	< 200	< 100	< 200	< 100	< 100 590	2400	< 100	< 1000	
B24	12/10/2014	B23-3V B24-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	730	1600	< 100	< 1000	
B25	12/10/2014	B25-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	480	2900	< 100	< 1000	
B26	12/10/2014	B26-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	2300	4800	< 100	< 1000	
B27	12/10/2014	B27-SV	10.0	3	430	< 80	< 200	< 100	< 200	< 100	230	3900	< 100	< 1000	
B28	12/10/2014	B28-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	220	4800	< 100	< 1000	
B29	12/10/2014	B29-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	290	2300	< 100	< 1000	
B30	1/30/2015	B30-SV	5.0	3	1700	< 80	< 200	< 100	< 200	< 100	< 100	1400	< 100	< 1000	
B31	1/30/2015	B31-SV	5.0	3	640	< 80	< 200	< 100	< 200	< 100	< 100	1200	< 100	< 1000	
B32	1/30/2015	B32-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	410	< 100	< 1000	
B33	1/30/2015	B33-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	< 100	< 100	< 1000	
B41	9/21/2015	B41-SV	5.0	3	< 100	< 80	< 200	280	1200	340	< 100	< 100	< 100	< 1000	
B42	9/21/2015	B42-SV	5.0	3	< 100	< 80	< 200	110	410	< 100	< 100	< 100	< 100	< 1000	
B43	9/21/2015	B43-SV	5.0	3	< 100	< 80	< 200	120	420	100	< 100	< 100	< 100	< 1000	
B44	9/21/2015	B44-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	< 100	< 100	< 1000	21
B45	9/21/2015	B45-SV	5.0	3	< 100	88	< 200	130	270	140	240	2700	< 100	< 1000	21
B46 B47	9/21/2015	B46-SV B47-SV	5.0 5.0	3	< 100 < 100	91 710	< 200 400	< 100	< 200 260	< 100 100	1400 200	1000 330	< 100	< 1000 < 1000	14
B47 B48	9/21/2015 9/21/2015	B47-SV B48-SV	5.0 13.0	3	< 100 150	710 < 80	400 < 200	< 100 < 100	260 < 200	100 < 100	200 < 100	330 1000	< 100 < 100	< 1000 < 1000	15
B48 B48-dup	9/21/2015	B48-SV B48-SV	13.0	3	200	< 80 < 80	< 200 < 200	< 100 < 100	< 200 < 200	< 100 < 100	< 100 130	1200	< 100 < 100	< 1000 < 1000	
B49-dup	9/21/2015	B49-SV	13.0	3	< 100	< 80	< 200	< 100	< 200	< 100	460	3200	< 100	< 1000	
B50	9/21/2015	B50-SV	10.0	3	< 100	< 80	< 200	< 100	< 200	< 100	690	420	< 100	< 1000	21
500	3/21/2013	D00-0 V	10.0	<u> </u>	V 100	Off-Site	\ 200	V 100	\ 200	V 100	030	720	< 100	< 1000	
B34	1/30/2015	B34-SV	9.0	3	680	< 80	< 200	< 100	< 200	< 100	< 100	< 100	< 100	< 1000	
B35	1/30/2015	B35-SV	9.0	3	350	< 80	< 200	< 100	< 200	< 100	< 100	< 100	< 100	< 1000	
B36	1/30/2015	B36-SV	9.0	3	700	< 80	< 200	< 100	< 200	< 100	< 100	130	< 100	< 1000	
B37	1/30/2015	B37-SV	9.0	3	5000	< 80	< 200	< 100	< 200	< 100	< 100	470	< 100	< 1000	
B38	1/30/2015	B38-SV	9.0	3	23000	< 80	< 200	< 100	< 200	< 100	< 100	170	< 100	< 1000	
B39	1/30/2015	B39-SV	6.0	3	2900	< 80	< 200	< 100	< 200	< 100	< 100	100	< 100	< 1000	
B40	1/30/2015	B40-SV	8.75	3	220	< 80	< 200	< 100	< 200	< 100	< 100	230	< 100	< 1000	
S	Site-Specific Vapor In	trusion Screening Leve	el for Residential Lan	d Use (DTSC, 2014) (1)	1,260	160	NC	NC	NC	NC	NC	NC	NC	NC	NE
			Resid	ential land use ESL (2)	210	42	160,000	490	52,000	52,000	NE	NE	230	NE	NE
			Commercial/Indu	ıstrial land use ESL (3)	2,100	420	1,300,000	4,900	440,000	440,000	NE	NE	2,300	NE	NE

Detections are shown in bold.

Results equal to or exceeding site-specific vapor intrusion screening level for residential land use (benzene and PCE only) or residential ESL (all other compounds and off-site samples) are shaded.

feet bgs: feet below ground surface.

μg/m³: micrograms per cubic meter. PCE: Tetrachloroethene.

Freon 11: Trichlorofluoromethane.

Freon 12: Dichlorodifluoromethane.

- 1,1-DFA: 1,1-Difluoroethane (Leak Check Compound) < 100: not detected at or above the indicated laboratory reporting limit.
- 1. DTSC, 2014. Department of Toxic Substance Control, Vapor Intrusion Screening Model Soil Gas. December. Default soil type adjusted to reflect site-specific soil type (clay) in top 5 feet at site.

 2. ESL = December 2013 Regional Water Quality Control Board, San Francisco Bay Region (SFRWQCB) Environmental Screening Levels (ESLs), Table E-2 Soil
- Gas Screening Levels for Evaluation of Potential Vapor Intrusion, Residential Land Use.
- 3. ESL = December 2013 SFRWQCB ESLs, Table E-2 Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion, Commercial/Industrial Land Use.

--: Not Analyzed
NE: Not established.

NC: Not calculated

22000302M001.xlsx 10/20/2015

Table 2
Summary of Analytical Results for Soil - Metals & Pesticides
39155 and 39183 State Street
Fremont, California

		Sample		Met	tals		Pesticides					
Sample Location	Sample Identification	Depth (Feet bgs)	Date Collected	Arsenic (mg/Kg)	Lead (mg/Kg)	Endrin (µg/Kg)	DDD (µg/Kg)	DDE (µg/Kg)	DDT (µg/Kg)	Dieldrin (μg/Kg)	Heptachlor epoxide (µg/Kg)	alpha-Chlordane (μg/Kg)
B1	B1-1.0-2.0	1.0-2.0	10/27/2014	5.3	5.1	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7
ы	B1-3.0-4.0	3.0-4.0	10/27/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA
В3	B3-1.0-2.0	1.0-2.0	10/27/2014	5.8	8.9	24 C	94 #	650	22	< 1.7	< 1.7	7.0
ь	B3-3.0-4.0	3.0-4.0	10/27/2014	NA	NA	< 3.3	< 3.3	28 #	18#	< 1.7	1.8	< 1.7
B5	B5-1.0-2.0	1.0-2.0	10/27/2014	5.3	5.3	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7
БЭ	B5-3.0-4.0	3.0-4.0	10/27/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA
B6	B6-1.0-2.0	1.0-2.0	10/28/2014	8.2	13	48	86 #	430	89	2.1 C #	< 1.8	4.9
БО	B6-3.0-4.0	3.0-4.0	10/28/2014	NA	NA	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7
B7	B7-1.0-2.0	1.0-2.0	10/28/2014	7.3	9.7	24 C	61 #	320	75	< 1.7	< 1.7	< 1.7
D/	B7-3.0-4.0	3.0-4.0	10/28/2014	NA	NA	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7
B8	B8-1.0-2.0	1.0-2.0	10/28/2014	7.8	10	37	87 #	850 C	27	3.5 C #	< 1.7	9.6
Бо	B8-3.0-4.0	3.0-4.0	10/28/2014	NA	NA	< 8.5	< 8.5	260 #	19#	9.3 #	< 17	< 17
B11	B11-1.0-2.0	1.0-2.0	10/29/2014	4.3	5.3	27 C	6.1 C #	670 C	130	< 1.7	< 1.7	5.4
БП	B11-3.0-4.0	3.0-4.0	10/29/2014	NA	NA	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7
B12	B12-1.0-2.0	1.0-2.0	10/29/2014	4.3	7.7	< 33	< 33	460	100	< 17	< 17	< 17
DIZ	B12-3.0-4.0	3.0-4.0	10/29/2014	NA	NA	< 3.3	< 3.3	< 3.3	< 3.3	< 1.7	< 1.7	< 1.7
B13	B13-1.0-2.0	1.0-2.0	10/29/2014	5.6	11	< 17	< 17	54	< 17	< 17	< 17	< 8.5
ыз	B13-3.0-4.0	3.0-4.0	10/29/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA
B16	B16-1.0-2.0	1.0-2.0	10/29/2014	4.7	5.3	< 3.3	< 3.3	21	7.7	< 1.7	< 1.7	< 1.7
БІО	B16-3.0-4.0	3.0-4.0	10/29/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA
Residential land use ESL (1)			and use ESL (1)	0.39	80	0.65	2,400	1,700	1,700	2.3	14	440
	Commerci		and use ESL (2)	0.96	320	0.65	6,000	4,000	4,000	2.3	14	950
	Residential la	nd use Humai	n Health ESL (3)	0.39	80	23,000	2,400	1,700	1,700	34	61	440
Comm	ercial/Industrial la	nd use Huma	n Health ESL (4)	0.96	320	23,000	6,000	4,200	4,200	67	240	950
			Concentration	11 ⁽⁵⁾	11.43 ⁽⁶⁾	NE	NE	NE	NE	NE	NE	NE
			TTLC values	500	1,000	200	1,000	1,000	1,000	8,000	4.7	2,500

Notes:

Detections are shown in bold.

Results equal to or exceeding regulatory screening level for residential land use and background concentrations are shaded.

Total Metals by U.S. EPA Test Methods 6010B and 7471A.

Pesticides by U.S. EPA Test Methods 8081A.

Feet bgs: Feet below ground surface.

DDD: dichlorodiphenyldichloroethane

DDE: dichlorodiphenyldichloroethylene

DDT: dichlorodiphenyltrichloroethane mg/Kg: Milligrams per Kilogram.

μg/Kg: Micrograms per Kilogram.

µg/kg. Micrograms per Kilogram.

< 3.3 : Not detected at or above the specified laboratory reporting limit.

Only metals and pesticides detected in one or more soil sample are presented on this table.

NA: Not Analyzed.

C: Presence confirmed, but RPD between columns exceeds 40%.

#: CCV drift outside limits; average CCV drigts within limits per method requirements.

1. ESL = December 2013 Regional Water Quality Control Board, San Francisco Bay Region (SFRWQCB) Environmental Screening Levels (ESLs), Table A-1 groundwater is a current or potential source of drinking water for Residential Land Use.

2. ESL= December 2013 SFRWQCB ESLs, Table A-2 Shallow Soils (<3m bgs) where groundwater is a current or potential source of drinking water for Commercial or Industrial Use.

3. ESL= December 2013 SFRWQCB ESLs, Table K-1 Direct Exposure Soil Screening Levels Residential Exposure Scenario.

4. ESL= December 2013 SFRWQCB ESLs, Table K-2 Direct Exposure Soil Screening Levels Commercial/Industrial Worker Exposure Scenario.

5. Dylan Durengé, 2011. Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region. December.

6. Christina Scott, 1991. Background Metal Concentrations in Soils in Northern Santa Clara County, California. December.

TTLC: Total Threshold Limit Concentration

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Table 3 Summary of Analytical Results for Soil - VOCs & TPH 39155 and 39183 State Street Fremont, California

01-	0	Sample	D-4-	VOCs	Total Petroleum Hydrocarbons				
Sample	Sample Identification	Depth	Date	Acetone	TPH-d	TPH-d*	TPH-mo	TPH-mo*	
Location	Identification	(Feet bgs)	Collected	(µg/Kg)	(µg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
B1	B1-1.0-2.0	1.0-2.0	10/27/2014	< 16	NA	NA	NA	NA	
ы	B1-3.0-4.0	3.0-4.0	10/27/2014	NA	NA	NA	NA	NA	
В3	B3-1.0-2.0	1.0-2.0	10/27/2014	14	NA	NA	NA	NA	
БЭ	B3-3.0-4.0	3.0-4.0	10/27/2014	NA	NA	NA	NA	NA	
B5	B5-1.0-2.0	1.0-2.0	10/27/2014	< 14	NA	NA	NA	NA	
БЭ	B5-3.0-4.0	3.0-4.0	10/27/2014	< 18	NA	NA	NA	NA	
B6	B6-1.0-2.0	1.0-2.0	10/28/2014	< 16	NA	NA	NA	NA	
Во	B6-3.0-4.0	3.0-4.0	10/28/2014	< 13	NA	NA	NA	NA	
B7	B7-1.0-2.0	1.0-2.0	10/28/2014	< 13	NA	NA	NA	NA	
Б/	B7-3.0-4.0	3.0-4.0	10/28/2014	NA	NA	NA	NA	NA	
B8	B8-1.0-2.0	1.0-2.0	10/28/2014	< 15	NA	NA	NA	NA	
Бб	B8-3.0-4.0	3.0-4.0	10/28/2014	NA	NA	NA	NA	NA	
D44	B11-1.0-2.0	1.0-2.0	10/29/2014	< 14	NA	NA	NA	NA	
B11	B11-3.0-4.0	3.0-4.0	10/29/2014	NA	NA	NA	NA	NA	
D40	B12-1.0-2.0	1.0-2.0	10/29/2014	< 14	NA	NA	NA	NA	
B12	B12-3.0-4.0	3.0-4.0	10/29/2014	NA	NA	NA	NA	NA	
B13	B13-1.0-2.0	1.0-2.0	10/29/2014	< 18	NA	NA	NA	NA	
ыз	B13-3.0-4.0	3.0-4.0	10/29/2014	NA	NA	NA	NA	NA	
B16	B16-1.0-2.0	1.0-2.0	10/29/2014	< 15	NA	NA	NA	NA	
БІО	B16-3.0-4.0	3.0-4.0	10/29/2014	< 16	NA	NA	NA	NA	
B44	B44S-1.0-2.0	1.0-2.0	9/21/2015	130	190	140	1200	850	
D44	B44S-3.0-4.0	3.0-4.0	9/21/2015	< 46	49	42	140	130	
B45	B45S-1.0-2.0	1.0-2.0	9/21/2015	< 35	25	18	130	100	
B45	B45S-3.0-4.0	3.0-4.0	9/21/2015	< 45	30	23	94	72	
B46	B46S-1.0-2.0	1.0-2.0	9/21/2015	< 46	48	41	190	170	
D40	B46S-3.0-4.0	3.0-4.0	9/21/2015	< 39	59	47	180	150	
B47	B47S-1.5-2.5	1.5-2.5	9/21/2015	< 44	170	130	1400	840	
D47	B47S-3.5-4.5	3.5-4.5	9/21/2015	< 38	43	31	140	110	
B50	B50S-9.0-10.0	9.0-10.0	9/21/2015	< 40	1.5	< 0.99	< 49	< 49	
		Residential la	nd use ESL ⁽¹⁾	500	100	100	100	100	
	Commerc	ial/Industrial la		500	110	110	500	500	

Notes:

Detections are shown in bold.

VOCs: Volatile organic compounds by U.S. EPA Test Method 8260B.

TPH-d: Total petroleum hydrocarbons quantified as diesel.

TPH-mo: Total petroleum hydrocarbons quantified as motor oil.

Feet bgs: Feet below ground surface.

* = Analysis performed with silica gel cleanup

μg/Kg: Micrograms per Kilogram.

< 16 : Not detected at or above the specified laboratory reporting limit.

NA: Not Analyzed.

Only VOCs detected in one or more soil sample are presented on this table. Total petroleum hydrocarbons quantified as gasoline were not detected above the laboratory reporting limit.

1. ESL = December 2013 Regional Water Quality Control Board,

San Francisco Bay Region (SFRWQCB) Environmental Screening

Levels (ESLs), Table A-1 Shallow Soils (<3m bgs) where groundwater

is a current or potential source of drinking water for Residential Land Use.

2. ESL = December 2013 SFRWQCB ESLs, Table A-2 Shallow Soils

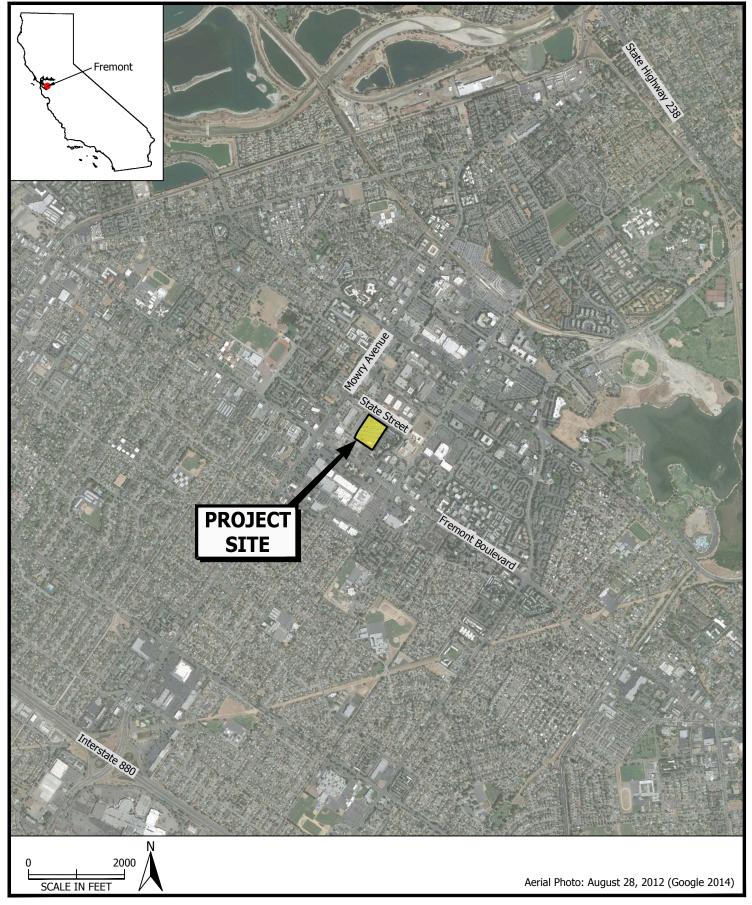
(<3m bgs) where groundwater is a current or potential source of

drinking water for Commercial or Industrial Use.

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PES Environmental, Inc.

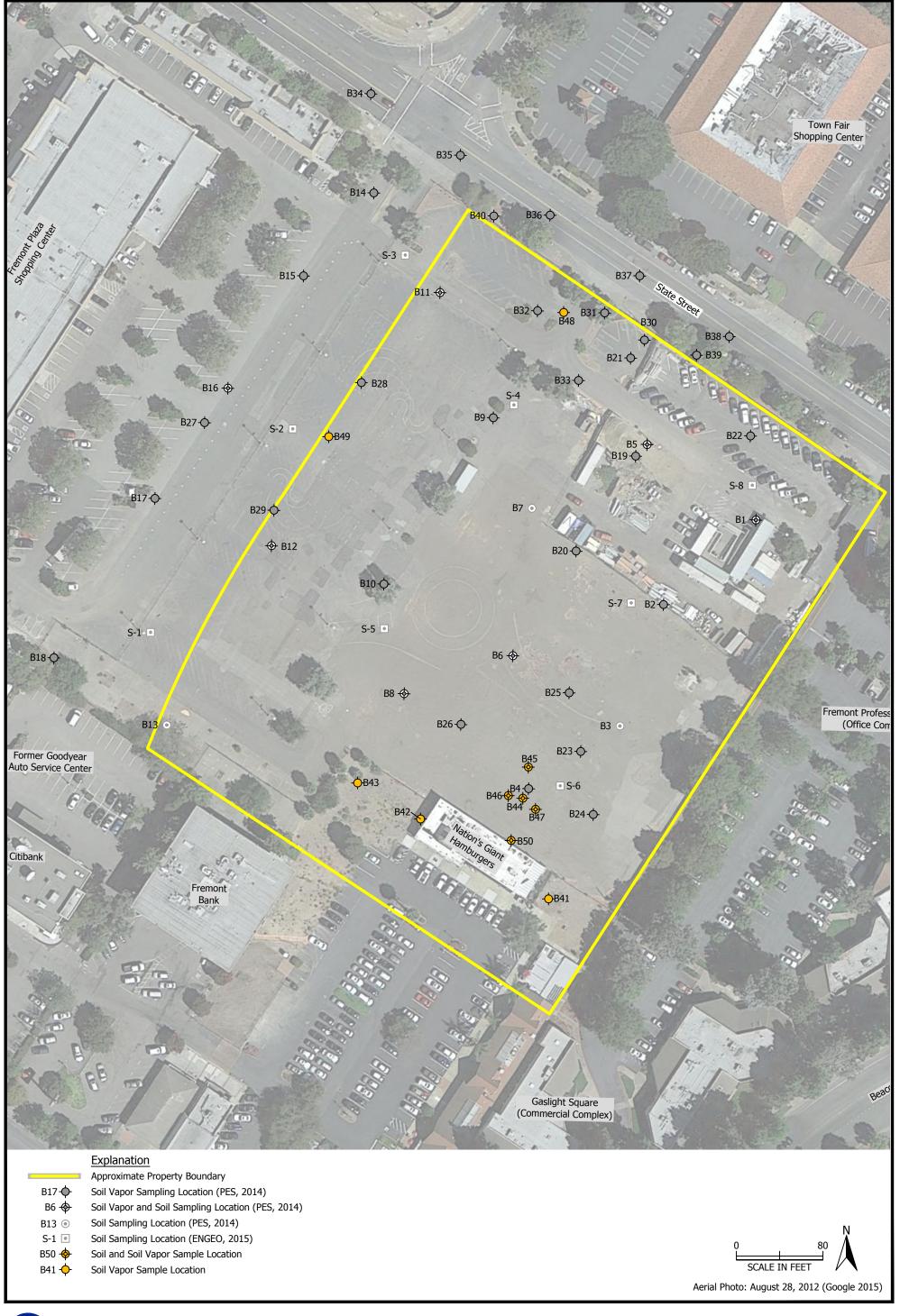
PLATES





Site Location and Vicinity 39155 and 39183 State Street Fremont, California

PLATE





Site Plan and Sample Locations 39155 and 39183 State Street Fremont, California

2

ATTACHMENT A

ACWD DRILLING PERMITS

ALAMEDA COUNTY WATER DISTRICT

43885 South Grimmer Blvd. • P.O. Box 5110 Fremont, CA 94537-5110 Permitting & Scheduling (510) 668-4460

APPLICATION FOR DRILLING PERMIT

Application Received Permit Is Date: 8/14/2015 By: 50 Date: 1		CONTRACTOR OF THE PROPERTY OF	Job No.		1 No. 2015-0379 1 No. NA			
JOB ADDRESS: 39155 and 39143 5. RAME: City of Fremont / Jessica Very Address: 300 (apital Avery Fremont (A 445) TELEPHONE: 510 - 284 - 4008	THIS A IS A VA to perform only wor job address, in acco No. 2010-01 and	APPLICATION ALID PERMIT Ik described below at the given ordance with ACWD Ordinance all other applicable laws and attinuation of work may result in						
NAME: (ar Michelsen - 1600 NAME: [19] Novato Blv Novato (A 94 TELEPHONE: 115-899-1600 NAME: T f (r - Nor Hern Lanchy (ordera E-MAIL ADDRESS: henry & fernit TELEPHONE: 916-853-8010		revocation of permitthe work in adva approval of drawing plans, reports or inc not relieve the per technical adequacy circumstances, all	it. Permittee must schedule ance with ACWD. ACWD's s, designs, specifications, work idental work and materials shall mittee of responsibility for the of the work. Except for special work to be inspected must be CWD work hours — 7:00 a.m. to					
PLEASE CHECK TYPE OF PROPOSED WORK Each well or other excavation requires a separate permit application form unless otherwise indicated. Only one specific type of work can be checked per permit application.								
WELLS	EXPLORATORY				CAVATIONS			
□ CONSTRUCTION □ REPAIR □ DESTRUCTION	CONSTRUCT./DE	STRUCT.	□ <u>cc</u>	DNSTRUCTION ☐ REPAIR ☐ DESTRUCTION				
□ Water Well Monitoring Well: □ Chemical Investigation □ Injection Well (for Chemical Cleanup) □ Geotechnical Investigation □ Geothermal Heat Exchange Well	Multiple exploratory h same type may be together on the san application for □ Chemical Investigati □ Injection Boreholes ☑ Soil Vapor Sampling	grouped ne permit rm. on	□ Vibrat Multiple together □ Clean	athodic Protection Well □ Inclinometer Drating Wire Piezometer □ Elevator Shaft Itiple other excavations of the same type may be grouped ther on the same permit application form for the following: eanup Site Excavation(s) □ Wick Drains Inclinometer □ Elevator Shaft Itiple other excavations of the same type may be grouped ther on the same permit application form for the following: eanup Site Excavation(s) □ Wick Drains Inclinometer □ Elevator Shaft				
☐ Dewatering Well (Multiple dewatering wells may be grouped together on the same permit application form) Quantity:	□ Geotechnical Investi		rehole (s) Caissons ner: Quantity:					
DESCRIPTION OF PROPOSED, WORK: Using direct funk duil vi7 advance ~ 4 hovings total estimated cost to depths of 5 to 10 feet bgs. to collect soil \$ Vafor samples								
PERMIT CONDITIONS: Exploratory Boreholas to be backfilled from bottom of borehole to surface with neat cement								
FEES: Private	mental Agency	FEES/ DEPOSIT:		ck No. 51727	Estimated Amount \$ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
REFUND: Amount \$ Reason:	n/m/a		w	Cash	Difference \$			
APPROVED FOR SCHEDULING BY: BD DAT I hereby agree to comply with all conditions of this per D.W.R. Drillers Report (form 188) within sixty (60) days Title: Principal Geochemist Representing: FFS Environmental	s after completion as we	CWD Ordina	nce No. 20 lical testing	010-01 and to furnish	the District a completed copy of			

ALAMEDA COUNTY WATER DISTRICT

43885 South Grimmer Blvd. • P.O. Box 5110
Fremont, CA 94537-5110
Permitting & Scheduling (510) 668-4460

APPLICATION FOR DRILLING PERMIT

ACWD ORDINANCE NO. 2010-01

Application Received Permit I Date: \$/14/15 By: PC Date:	ssued Permit Expiration 9//6/15 .Date: 1///6/15	Job No	Permit No. 2015-0382 Well No. N/A					
JOB ADDRESS: 39155 and 3918 Fremont, A ADDRESS: 300 (apitol free Fremont (A 94. Fremont (A 94. TELEPHONE: 510-294-4009 NAME: (an) Michelsen-PES Novato Bl. Novato CA No	94537 von Bock - Assistant City 537 Envivonmental vol. Svite 100 4947 RG/CEG/RCE NO. 06 5/72 alifornia Park A CA 95742	Manayer	When properly signed THIS APPLICATION IS A VALID PERMIT to perform only work described below at the given job address, in accordance with ACWD Ordinance No. 2010-01 and all other applicable laws and regulations. Discontinuation of work may result in revocation of permit. Permittee must schedule the work in advance with ACWD. ACWD's approval of drawings, designs, specifications, work plans, reports or incidental work and materials shall not relieve the permittee of responsibility for the technical adequacy of the work. Except for special circumstances, all work to be inspected must be performed within ACWD work hours — 7:00 a.m. to 4:30 p.m., Monday through Friday.					
Each well or other excavati	ASE CHECK TYPE OF PROPOSED ion requires a separate permit applica pecific type of work can be checked permit by EXPLORATORY HOLES	ation form un	nless otherwise indicated. oplication. OTHER EXCAVATIONS					
□ CONSTRUCTION □ REPAIR □ DESTRUCTION	CONSTRUCT./DESTRUCT.	□ <u>co</u>	DNSTRUCTION ☐ REPAIR ☐ DESTRUCTION					
□ Water Well Monitoring Well: □ Chemical Investigation □ Injection Well (for Chemical Cleanup) □ Geotechnical Investigation □ Geothermal Heat Exchange Well □ Dewatering Well (Multiple dewatering wells may be grouped together on the same permit application form) Quantity:	Multiple exploratory holes of the same type may be grouped together on the same permit application form. Chemical Investigation Injection Boreholes Soil Vapor Sampling Geotechnical Investigation Quantity:	☐ Vibrati Multiple together ☐ Cleanu	dic Protection Well					
DESCRIPTION OF PROPOSED WORK: VSING a direct - funh drill vig advance ~4 burings to depths of 10, feel below grade to (allect continuous sull samples.								
PERMIT CONDITIONS: Exploratory Boreholes to surface with neat o	to be backfile	d fr	um bottom of borehole					
FEES: Derivate ☐ City ☐ Govern	mental Agency FEES/	Date Re	ceived 8/14/15 Estimated Amount \$ 1,140.00					
GUARANTEE OF PERFORMANCE: Cash Deposit	□ Bond DEPOSIT		ck No. 51727 Actual Amount \$ 1,140.00					
REFUND: Amount \$ Reason:			Cash Difference \$					
ACWD SITE NO. 690 APPROVED FOR SCHEDULING BY: 47. DAT	E: 3/17/2015 APPROVED BY:	-87	601 MAM DATE: 8/17/2015					
I hereby agree to comply with all conditions of this per D.W.R. Drillers Report (form 188) within sixty (60) days Title: Principal Geochems+	rmit in accordance with ACWD Ordina	ance No. 20	110-01 and to furnish the District a completed copy of					

Name (printed):

PES Environmenta

PES Environmental, Inc.

ATTACHMENT B

BORING LOGS

	MAJOR DIVI	SIONS			TYPICAL NAMES
		CLEAN GRAVELS	GW	菜	WELL-GRADED GRAVELS WITH OR WITHOUT SAND
200 SIEVE	GRAVELS MORE THAN HALF	WITH LESS THAN 15% FINES	GP		POORLY-GRADED GRAVELS WITH OR WITHOUT SAND
	COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	GRAVELS WITH	GM		SILTY GRAVELS WITH OR WITHOUT SAND
AINED SO		15% OR MORE FINES	GC		CLAYEY GRAVELS WITH OR WITHOUT SAND
COARSE-GRAINED SOILS HALF IS COARSER THAN NO.		CLEAN SANDS	sw		WELL-GRADED SANDS WITH OR WITHOUT GRAVEL
CO/	SANDS MORE THAN HALF	WITH LESS THAN 15% FINES	SP		POORLY-GRADED SANDS WITH OR WITHOUT GRAVEL
MORE THAN	COARSE FRACTION IS FINER THAN NO. 4 SIEVE SIZE	SANDS WITH 15%	SM		SILTY SANDS WITH OR WITHOUT GRAVEL
		OR MORE FINES	sc		CLAYEY SANDS WITH OR WITHOUT GRAVEL
SIEVE	SIEVE				INORGANIC SILTS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
200	SILTS AN	CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL	
NED SOIL			OL		ORGANIC SILTS OR CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
FINE-GRAINED SOILS HALF IS FINER THAN NO.		МН		INORGANIC SILTS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL	
MORE THAN H	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50%		СН		INORGANIC CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
			ОН		ORGANIC SILTS OR CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL
HIGHLY ORGANIC SOILS			PT		PEAT AND OTHER HIGHLY ORGANIC SOILS
_	ABBREVIA	TION KEY			SYMBOLS KEY
PID (PPN		Detector readings in parte eadspace sample scree			No Soil Sample Recovered
BLOWS/6	indicated on the lo	drive sampler 6 inches a ogs using sample drive h nds falling 30 inches.			Partial Soil Sample Recovered Undisturbed Soil Sample Recovered
(10,60,30		ercent sand, percent silt/	clay	-	Soil Sample Submitted for Laboratory Analysis



2.5YR 6/2

feet MSL

feet BGS

- Soil Color according to Munsell Soil Color Charts (1994 Revised Edition)

- feet above Mean Sea Level

- feet below ground surface

Unified Soil Classification System Chart 39155 State Street Fremont, California

 $\underline{\underline{\nabla}}$ - First Encountered Wet Soil

▼ - Piezometric Groundwater level

PLATE

B-0

GDT 10/15 220.003.02.001 **USCS Chart** REVIEWED BY

PROJECT SummerHill Homes LOCATION 39155 State Street, Femont, California JOB NUMBER 220.003.02.001 LOGGED BY ME DRILL RIG Direct Push	TOTAL DEPTH OF HOLE 4 for DATE STARTED 9/2	nches
---	--	-------

15 -

PLATE

B-1

PROJECT	SummerHill Homes	REVIEWED BY DIAMETER OF HOLE TOTAL DEPTH OF HOLE DATE STARTED DATE COMPLETED	GDT
LOCATION	39155 State Street, Femont, California		2 inches
JOB NUMBER	220.003.02.001		4 feet
LOGGED BY	ME		9/21/15
DRILL RIG	Direct Push		9/21/15

15 -

PLATE

B-2

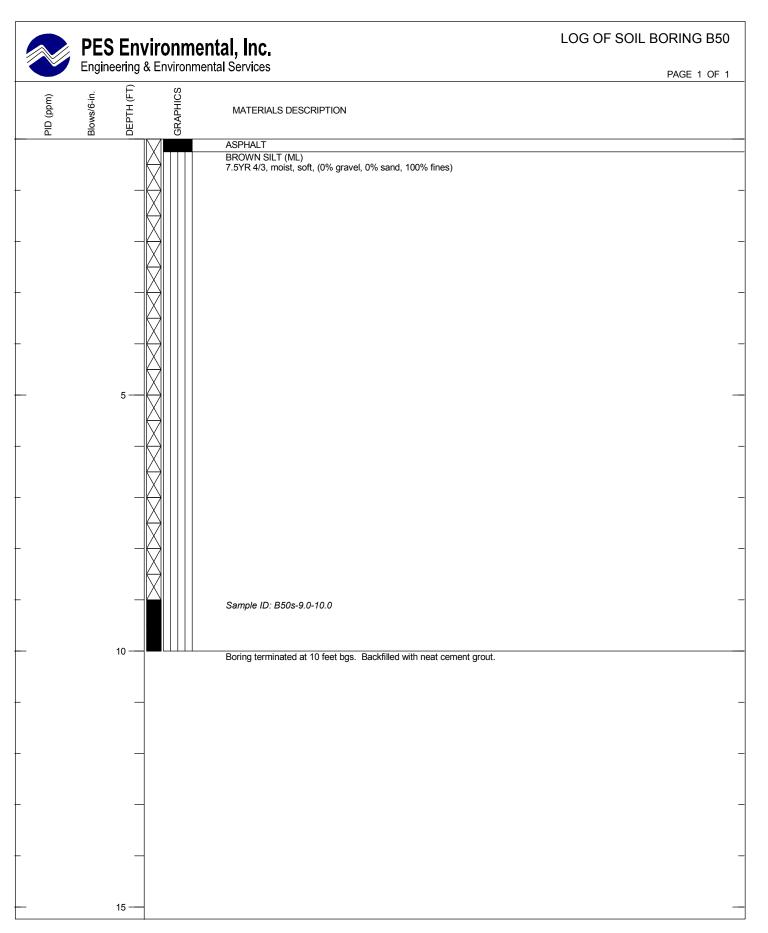
15 -

PLATE

PROJECT SummerHill Homes LOCATION 39155 State Street, Femont, California JOB NUMBER 220.003.02.001 LOGGED BY ME DRILL RIG Direct Push	REVIEWED BY DIAMETER OF HOLE TOTAL DEPTH OF HOLE DATE STARTED DATE COMPLETED	GDT 2 inches 4.5 feet 9/21/15 9/21/15
---	--	---

15

PLATE



GDT **PROJECT** SummerHill Homes **REVIEWED BY** LOCATION 39155 State Street, Femont, California 2 inches DIAMETER OF HOLE JOB NUMBER 220.003.02.001 TOTAL DEPTH OF HOLE 10 feet 9/21/15 LOGGED BY ME DATE STARTED DRILL RIG Direct Push DATE COMPLETED 9/21/15

PLATE

B-5

	PES	Envir	onmenta	al, Inc.
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ATTACHMENT C

LABORATORY ANALYTICAL REPORTS AND CHAIN OF CUSTODY FORMS

PES Environmental, Inc.

TEST AMERICA, INC.



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton 1220 Quarry Lane Pleasanton, CA 94566 Tel: (925)484-1919

TestAmerica Job ID: 720-67532-1

Client Project/Site: 39155 State St. Fremont

For:

PES Environmental, Inc. 1682 Novato Boulevard Suite 100 Novato, California 94947-7021

Attn: Justin Patterson



Authorized for release by: 9/30/2015 3:19:18 PM

Afsaneh Salimpour, Senior Project Manager (925)484-1919

afsaneh.salimpour@testamericainc.com

----- LINKS -----

Review your project results through
Total Access

Have a Question?



Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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QC Sample Results	28
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Lab Chronicle	38
Certification Summary	41
Method Summary	42
Sample Summary	43
Chain of Custody	44
Receipt Checklists	45

3

4

6

8

9

11

13

14

15

Definitions/Glossary

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont TestAmerica Job ID: 720-67532-1

Qualifiers

GC Semi VOA

Qualitier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a
V	dilution may be flagged with a D.
X	Surrogate is outside control limits

Glossary

TEF

TEQ

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

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

TestAmerica Pleasanton

Page 3 of 45

9/30/2015

Case Narrative

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont TestAmerica Job ID: 720-67532-1

Job ID: 720-67532-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-67532-1

Comments

No additional comments.

Receipt

The samples were received on 9/22/2015 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 3.1° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 720-189512 recovered above the upper control limit for 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: B44S-1.0-2.0 (720-67532-1), B44S-3.0-4.0 (720-67532-2), B45S-1.0-2.0 (720-67532-3), B45S-3.0-4.0 (720-67532-4), B46S-1.0-2.0 (720-67532-5), B46S-3.0-4.0 (720-67532-6), B47S-1.5-2.5 (720-67532-7), B47S-3.5-4.5 (720-67532-8) and B50S-9.0-10.0 (720-67532-9).

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

GC Semi VOA

Method(s) 8015B: The following samples required a dilution due to the nature of the sample matrix: B44S-1.0-2.0 (720-67532-1) and B47S-1.5-2.5 (720-67532-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: The following sample required a dilution due to the nature of the sample matrix: B47S-1.5-2.5 (720-67532-7). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Organic Prep

Method(s) 3546: The following sample could not be thoroughly homogenized before sub-sampling was performed due to sample matrix: B44S-1.0-2.0 (720-67532-1). The sample was clay

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

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TestAmerica Job ID: 720-67532-1

Lab Sample ID: 720-67532-2

Lab Sample ID: 720-67532-3

Lab Sample ID: 720-67532-4

Lab Sample ID: 720-67532-5

Lab Sample ID: 720-67532-6

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Client Sample ID: B44S-1.0-2.0 Lab Sample ID: 720-67532-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac [Method	Prep Type
Acetone	130	53	ug/Kg	1	8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C10-C28]	190	20	mg/Kg	20	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	1200	1000	mg/Kg	20	8015B	Total/NA
Diesel Range Organics [C10-C28]	140	10	mg/Kg	10	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	850	500	mg/Kg	10	8015B	Silica Gel Cleanup

Client Sample ID: B44S-3.0-4.0

 Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Diesel Range Organics [C10-C28]	49	1.0	mg/Kg		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	140	50	mg/Kg	1	8015B	Total/NA
Diesel Range Organics [C10-C28]	42	1.0	mg/Kg	1	8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	130	50	mg/Kg	1	8015B	Silica Gel Cleanup

Client Sample ID: B45S-1.0-2.0

Analyte Diesel Range Organics [C10-C28] Motor Oil Range Organics [C24-C36] Diesel Range Organics [C10-C28]	25 130 18	RL 0.99 49 0.99	MDL Unit mg/Kg mg/Kg mg/Kg	Dil Fac 1 1 1	- 8	015B 015B 015B 015B	Prep Type Total/NA Total/NA Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	100	49	mg/Kg	1	8	015B	Silica Gel Cleanup

Client Sample ID: B45S-3.0-4.0

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	30		0.99		mg/Kg		_	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	94		50		mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	23		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	72		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B46S-1.0-2.0

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	48		0.99		mg/Kg	1	_	8015B	Total/NA
Motor Oil Range Organics [C24-C36]	190		50		mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C10-C28]	41		0.99		mg/Kg	1		8015B	Silica Gel Cleanup
Motor Oil Range Organics [C24-C36]	170		50		mg/Kg	1		8015B	Silica Gel Cleanup

Client Sample ID: B46S	3-3.0)-4 .0
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Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Diesel Range Organics [C10-C28]	59	0.99	mg/Kg	1	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

RL

50

50

RL

20

990

9.9

490

RL

1.0

50

1.0

50

0.99

MDL Unit

MDL Unit

MDL Unit

mg/Kg

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Motor Oil Range Organics [C24-C36]

Motor Oil Range Organics [C24-C36]

Client Sample ID: B47S-1.5-2.5

Diesel Range Organics [C10-C28]

Motor Oil Range Organics [C24-C36]

Motor Oil Range Organics [C24-C36]

Client Sample ID: B50S-9.0-10.0

Motor Oil Range Organics [C24-C36]

Motor Oil Range Organics [C24-C36]

Client Sample ID: B47S-3.5-4.5

Analyte

Analyte

Client Sample ID: B46S-3.0-4.0 (Continued)

Result Qualifier

Result Qualifier

Result Qualifier

43

140

31

110

180

47

150

170

1400

130

840

TestAmerica Job ID: 720-67532-1

Method

8015B

8015B

8015B

8015B

8015B

8015B

8015B

Method

8015B

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8015B

8015B

Lab Sample ID: 720-67532-7

Lab Sample ID: 720-67532-8

Dil Fac D

1

Dil Fac D Method

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20

10

10

Dil Fac D

1

Lab Sample ID: 720-67532-6

Prep Type

Total/NA

Silica Gel Cleanup

Silica Gel Cleanup

Prep Type

Total/NA

Total/NA

Silica Gel Cleanup

Silica Gel Cleanup

Prep Type

Total/NA

Total/NA

Silica Gel Cleanup

Silica Gel Cleanup

Lab Sample ID: 720-67532-9

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac [Method	Prep Type
Diesel Range Organics [C10-C28]	1.5	0.99	mg/Kg	1	8015B	Total/NA

Client Sample Results

Client: PES Environmental, Inc. TestAmerica Job ID: 720-67532-1 Project/Site: 39155 State St. Fremont

Method: 8260B/CA LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: 720-67532-1 Client Sample ID: B44S-1.0-2.0

Date Received: 09/22/15 16:00 Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Methyl tert-butyl ether	ND		5.3		ug/Kg		09/22/15 19:20		
Acetone	130		53		ug/Kg			09/23/15 22:51	
Benzene	ND		5.3		ug/Kg			09/23/15 22:51	
Dichlorobromomethane	ND		5.3		ug/Kg			09/23/15 22:51	
Bromobenzene	ND ND		5.3		ug/Kg ug/Kg			09/23/15 22:51	
Chlorobromomethane	ND ND		21		ug/Kg			09/23/15 22:51	
Bromoform	ND		5.3					09/23/15 22:51	
Bromomethane	ND ND		5.5 11		ug/Kg ug/Kg			09/23/15 22:51	
	ND ND		53					09/23/15 22:51	
2-Butanone (MEK)					ug/Kg				
n-Butylbenzene	ND		5.3		ug/Kg			09/23/15 22:51	
sec-Butylbenzene	ND		5.3		ug/Kg			09/23/15 22:51	
tert-Butylbenzene	ND		5.3		ug/Kg			09/23/15 22:51	
Carbon disulfide	ND		5.3		ug/Kg			09/23/15 22:51	
Carbon tetrachloride	ND		5.3		ug/Kg			09/23/15 22:51	
Chlorobenzene	ND		5.3		ug/Kg			09/23/15 22:51	
Chloroethane	ND		11		ug/Kg			09/23/15 22:51	
Chloroform	ND		5.3		ug/Kg			09/23/15 22:51	
Chloromethane	ND		11		ug/Kg			09/23/15 22:51	
2-Chlorotoluene	ND		5.3		ug/Kg			09/23/15 22:51	
4-Chlorotoluene	ND		5.3		ug/Kg		09/22/15 19:20		
Chlorodibromomethane	ND		5.3		ug/Kg		09/22/15 19:20		
1,2-Dichlorobenzene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,3-Dichlorobenzene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,4-Dichlorobenzene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,3-Dichloropropane	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,1-Dichloropropene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,2-Dibromo-3-Chloropropane	ND		11		ug/Kg		09/22/15 19:20	09/23/15 22:51	
Ethylene Dibromide	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
Dibromomethane	ND		11		ug/Kg		09/22/15 19:20	09/23/15 22:51	
Dichlorodifluoromethane	ND		11		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,1-Dichloroethane	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,2-Dichloroethane	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,1-Dichloroethene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
cis-1,2-Dichloroethene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
trans-1,2-Dichloroethene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
1,2-Dichloropropane	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
cis-1,3-Dichloropropene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
trans-1,3-Dichloropropene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
Ethylbenzene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
Hexachlorobutadiene	ND		5.3		ug/Kg		09/22/15 19:20	09/23/15 22:51	
2-Hexanone	ND		53		ug/Kg		09/22/15 19:20	09/23/15 22:51	
Isopropylbenzene	ND		5.3		ug/Kg			09/23/15 22:51	
4-Isopropyltoluene	ND		5.3		ug/Kg			09/23/15 22:51	
Methylene Chloride	ND		11		ug/Kg			09/23/15 22:51	
4-Methyl-2-pentanone (MIBK)	ND		53		ug/Kg			09/23/15 22:51	
Naphthalene	ND		11		ug/Kg			09/23/15 22:51	
N-Propylbenzene	ND ND		5.3		ug/Kg ug/Kg			09/23/15 22:51	
Styrene	ND ND		5.3		ug/Kg ug/Kg			09/23/15 22:51	
1,1,1,2-Tetrachloroethane	ND		5.3		ug/Kg ug/Kg			09/23/15 22:51	

TestAmerica Pleasanton

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Client: PES Environmental, Inc.

Project/Site: 39155 State St. Fremont

TestAmerica Job ID: 720-67532-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: B44S-1.0-2.0	Lab Sample ID: 720-67532-1
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Date Collected: 09/21/15 16:00 Matrix: Solid

Date Received: 09/22/15 16:00	0							
Analyte	Result Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
Tetrachloroethene	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
Toluene	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
1,2,3-Trichlorobenzene	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
1,2,4-Trichlorobenzene	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
1,1,1-Trichloroethane	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
1,1,2-Trichloroethane	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
Trichloroethene	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
Trichlorofluoromethane	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
1,2,3-Trichloropropane	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
1,2,4-Trimethylbenzene	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
1,3,5-Trimethylbenzene	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
Vinyl acetate	ND	21	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
Vinyl chloride	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
Xylenes, Total	ND	11	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
2,2-Dichloropropane	ND	5.3	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
Gasoline Range Organics (GRO) -C5-C12	ND	260	ug	J/Kg		09/22/15 19:20	09/23/15 22:51	1
0	0/5					5	A I	D# 5

Surrogate	%Recovery	Qualifier Limi	ts Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100	45 -	09/22/15 19:	20 09/23/15 22:51	1
1,2-Dichloroethane-d4 (Surr)	109	60 -	140 09/22/15 19:	20 09/23/15 22:51	1
Toluene-d8 (Surr)	99	58 -	140 09/22/15 19:	20 09/23/15 22:51	1

Client Sample ID: B44S-3.0-4.0 Lab Sample ID: 720-67532-2 Date Collected: 09/21/15 16:10 Matrix: Solid

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Acetone	ND	46	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Benzene	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Dichlorobromomethane	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Bromobenzene	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Chlorobromomethane	ND	19	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Bromoform	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Bromomethane	ND	9.3	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
2-Butanone (MEK)	ND	46	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
n-Butylbenzene	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
sec-Butylbenzene	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
tert-Butylbenzene	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Carbon disulfide	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Carbon tetrachloride	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Chlorobenzene	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Chloroethane	ND	9.3	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Chloroform	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Chloromethane	ND	9.3	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
2-Chlorotoluene	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
4-Chlorotoluene	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1
Chlorodibromomethane	ND	4.6	ug/Kg		09/22/15 19:20	09/23/15 23:21	1

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Client Sample Results

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Client Sample ID: B44S-3.0-4.0

Date Collected: 09/21/15 16:10

TestAmerica Job ID: 720-67532-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: 720-67532-2

Matrix: Solid

1,2-Dichlorobenzene							
.,= =	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,3-Dichlorobenzene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,4-Dichlorobenzene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,3-Dichloropropane	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,1-Dichloropropene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,2-Dibromo-3-Chloropropane	ND		9.3	ug/Kg	09/22/15 19:20	09/23/15 23:21	
Ethylene Dibromide	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
Dibromomethane	ND		9.3	ug/Kg	09/22/15 19:20	09/23/15 23:21	
Dichlorodifluoromethane	ND		9.3	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,1-Dichloroethane	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,2-Dichloroethane	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,1-Dichloroethene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
cis-1,2-Dichloroethene	ND		4.6	ug/Kg		09/23/15 23:21	
trans-1,2-Dichloroethene	ND		4.6	ug/Kg		09/23/15 23:21	
1,2-Dichloropropane	ND		4.6	ug/Kg		09/23/15 23:21	
cis-1,3-Dichloropropene	ND		4.6	ug/Kg		09/23/15 23:21	
trans-1,3-Dichloropropene	ND		4.6	ug/Kg		09/23/15 23:21	
Ethylbenzene	ND		4.6	ug/Kg		09/23/15 23:21	
Hexachlorobutadiene	ND		4.6	ug/Kg		09/23/15 23:21	
2-Hexanone	ND		46	ug/Kg ug/Kg		09/23/15 23:21	
	ND ND		4.6			09/23/15 23:21	
Isopropylteluene				ug/Kg			
4-Isopropyltoluene	ND		4.6	ug/Kg		09/23/15 23:21	
Methylene Chloride	ND		9.3	ug/Kg		09/23/15 23:21	
4-Methyl-2-pentanone (MIBK)	ND		46	ug/Kg		09/23/15 23:21	
Naphthalene	ND		9.3	ug/Kg		09/23/15 23:21	
N-Propylbenzene	ND		4.6	ug/Kg		09/23/15 23:21	
Styrene	ND		4.6	ug/Kg		09/23/15 23:21	
1,1,1,2-Tetrachloroethane	ND		4.6	ug/Kg		09/23/15 23:21	
1,1,2,2-Tetrachloroethane	ND		4.6	ug/Kg		09/23/15 23:21	
Tetrachloroethene	ND		4.6	ug/Kg		09/23/15 23:21	
Toluene	ND		4.6	ug/Kg		09/23/15 23:21	
1,2,3-Trichlorobenzene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,2,4-Trichlorobenzene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,1,1-Trichloroethane	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,1,2-Trichloroethane	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
Trichloroethene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
Trichlorofluoromethane	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,2,3-Trichloropropane	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,2,4-Trimethylbenzene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
1,3,5-Trimethylbenzene	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
Vinyl acetate	ND		19	ug/Kg		09/23/15 23:21	
Vinyl chloride	ND		4.6	ug/Kg	09/22/15 19:20	09/23/15 23:21	
Xylenes, Total	ND		9.3	ug/Kg		09/23/15 23:21	
2,2-Dichloropropane	ND		4.6	ug/Kg		09/23/15 23:21	
Gasoline Range Organics (GRO)	ND		230	ug/Kg		09/23/15 23:21	
-C5-C12	.,,,		_00	בייים-	13/11/10/10/20	13/20/10/20/21	
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fa

TestAmerica Pleasanton

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Client: PES Environmental, Inc.

TestAmerica Job ID: 720-67532-1

Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

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Client Sample ID: B44S-3.0-4.0

Date Collected: 09/21/15 16:10

Lab Sample ID: 720-67532-2

Matrix: Solid

Date Received: 09/22/15 16:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		60 - 140	09/22/15 19:20	09/23/15 23:21	1
Toluene-d8 (Surr)	99		58 - 140	09/22/15 19:20	09/23/15 23:21	1

Client Sample ID: B45S-1.0-2.0 Lab Sample ID: 720-67532-3
Date Collected: 09/21/15 16:40

Matrix: Solid

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether		3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Acetone	ND	35	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Benzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Dichlorobromomethane	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Bromobenzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Chlorobromomethane	ND	14	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Bromoform	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Bromomethane	ND	7.0	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
2-Butanone (MEK)	ND	35	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
n-Butylbenzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
sec-Butylbenzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
tert-Butylbenzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Carbon disulfide	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Carbon tetrachloride	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Chlorobenzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Chloroethane	ND	7.0	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Chloroform	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Chloromethane	ND	7.0	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
2-Chlorotoluene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
4-Chlorotoluene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Chlorodibromomethane	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,2-Dichlorobenzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,3-Dichlorobenzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,4-Dichlorobenzene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,3-Dichloropropane	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,1-Dichloropropene	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,2-Dibromo-3-Chloropropane	ND	7.0	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Ethylene Dibromide	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Dibromomethane	ND	7.0	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Dichlorodifluoromethane	ND	7.0	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,1-Dichloroethane	ND	3.5	ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,2-Dichloroethane	ND	3.5	ug/Kg			09/23/15 23:50	1
1,1-Dichloroethene	ND	3.5	ug/Kg			09/23/15 23:50	1
cis-1,2-Dichloroethene	ND	3.5	ug/Kg			09/23/15 23:50	1
trans-1,2-Dichloroethene	ND	3.5	ug/Kg			09/23/15 23:50	1
1,2-Dichloropropane	ND	3.5	ug/Kg			09/23/15 23:50	1
cis-1,3-Dichloropropene	ND	3.5	ug/Kg			09/23/15 23:50	1
trans-1,3-Dichloropropene	ND	3.5	ug/Kg			09/23/15 23:50	1
Ethylbenzene	ND	3.5	ug/Kg			09/23/15 23:50	1
Hexachlorobutadiene	ND	3.5	ug/Kg			09/23/15 23:50	1
2-Hexanone	ND	35	ug/Kg			09/23/15 23:50	1
Isopropylbenzene	ND	3.5	ug/Kg			09/23/15 23:50	1

TestAmerica Pleasanton

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Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Client Sample ID: B45S-1.0-2.0

-C5-C12

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

	_				
Lab	Sample	ID:	720	-6753	2-3

Matrix: Solid

Date Collected: 09/21/15 16:40 Date Received: 09/22/15 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Methylene Chloride	ND		7.0		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
4-Methyl-2-pentanone (MIBK)	ND		35		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Naphthalene	ND		7.0		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
N-Propylbenzene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Styrene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,1,1,2-Tetrachloroethane	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,1,2,2-Tetrachloroethane	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Tetrachloroethene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Toluene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,2,3-Trichlorobenzene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,2,4-Trichlorobenzene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,1,1-Trichloroethane	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,1,2-Trichloroethane	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Trichloroethene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Trichlorofluoromethane	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,2,3-Trichloropropane	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,2,4-Trimethylbenzene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
1,3,5-Trimethylbenzene	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Vinyl acetate	ND		14		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Vinyl chloride	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Xylenes, Total	ND		7.0		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
2,2-Dichloropropane	ND		3.5		ug/Kg		09/22/15 19:20	09/23/15 23:50	1
Gasoline Range Organics (GRO)	ND		180		ug/Kg		09/22/15 19:20	09/23/15 23:50	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99	45 - 131	09/22/15 19:20	09/23/15 23:50	1
1,2-Dichloroethane-d4 (Surr)	115	60 - 140	09/22/15 19:20	09/23/15 23:50	1
Toluene-d8 (Surr)	97	58 - 140	09/22/15 19:20	09/23/15 23:50	1

Client Sample ID: B45S-3.0-4.0 Lab Sample ID: 720-67532-4 Date Collected: 09/21/15 16:50 **Matrix: Solid**

Date Received: 09/22/15 16:00								
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Acetone	ND	45		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Benzene	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Dichlorobromomethane	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Bromobenzene	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Chlorobromomethane	ND	18		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Bromoform	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Bromomethane	ND	9.0		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
2-Butanone (MEK)	ND	45		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
n-Butylbenzene	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
sec-Butylbenzene	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
tert-Butylbenzene	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Carbon disulfide	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Carbon tetrachloride	ND	4.5		ug/Kg		09/22/15 19:20	09/24/15 00:20	1

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Client: PES Environmental, Inc. TestAmerica Job ID: 720-67532-1 Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: B45S-3.0-4.0 Lab Sample ID: 720-67532-4

Date Collected: 09/21/15 16:50 **Matrix: Solid**

Date Received: 09/22/15 16:00 Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND Garmer -	4.5	ug/Kg		-	09/24/15 00:20	1
Chloroethane	ND	9.0	ug/Kg			09/24/15 00:20	1
Chloroform	ND	4.5	ug/Kg			09/24/15 00:20	1
Chloromethane	ND	9.0	ug/Kg			09/24/15 00:20	1
2-Chlorotoluene	ND	4.5	ug/Kg			09/24/15 00:20	
4-Chlorotoluene	ND	4.5	ug/Kg			09/24/15 00:20	1
Chlorodibromomethane	ND	4.5	ug/Kg			09/24/15 00:20	
1,2-Dichlorobenzene	ND	4.5	ug/Kg			09/24/15 00:20	1
1,3-Dichlorobenzene	ND	4.5	ug/Kg			09/24/15 00:20	1
1,4-Dichlorobenzene	ND	4.5	ug/Kg			09/24/15 00:20	1
1,3-Dichloropropane	ND	4.5	ug/Kg			09/24/15 00:20	· · · · · · · · 1
1,1-Dichloropropene	ND	4.5	ug/Kg			09/24/15 00:20	1
1,2-Dibromo-3-Chloropropane	ND	9.0	ug/Kg			09/24/15 00:20	1
Ethylene Dibromide	ND	4.5	ug/Kg			09/24/15 00:20	· · · · · · · · · · · · · · · · · · ·
Dibromomethane	ND	9.0	ug/Kg			09/24/15 00:20	1
Dichlorodifluoromethane	ND	9.0	ug/Kg			09/24/15 00:20	1
1.1-Dichloroethane	ND	4.5	ug/Kg			09/24/15 00:20	· · · · · · · · · · · · · · · · · · ·
1,2-Dichloroethane	ND	4.5	ug/Kg			09/24/15 00:20	1
1,1-Dichloroethene	ND	4.5	ug/Kg			09/24/15 00:20	1
cis-1,2-Dichloroethene	ND	4.5	ug/Kg			09/24/15 00:20	· · · · · · · · · · · · · · · · · · ·
trans-1,2-Dichloroethene	ND	4.5	ug/Kg			09/24/15 00:20	1
1,2-Dichloropropane	ND	4.5	ug/Kg			09/24/15 00:20	1
cis-1,3-Dichloropropene	ND	4.5	ug/Kg			09/24/15 00:20	
trans-1,3-Dichloropropene	ND	4.5	ug/Kg			09/24/15 00:20	1
Ethylbenzene	ND	4.5	ug/Kg			09/24/15 00:20	1
Hexachlorobutadiene	ND	4.5	ug/Kg			09/24/15 00:20	· · · · · · · · · · · · · · · · · · ·
2-Hexanone	ND	4.5 45	ug/Kg			09/24/15 00:20	1
Isopropylbenzene	ND	4.5	ug/Kg			09/24/15 00:20	1
4-Isopropyltoluene	ND	4.5	ug/Kg			09/24/15 00:20	· · · · · · · · · · · · · · · · · · ·
Methylene Chloride	ND	9.0	ug/Kg			09/24/15 00:20	1
4-Methyl-2-pentanone (MIBK)	ND	45	ug/Kg			09/24/15 00:20	1
Naphthalene	ND	9.0	ug/Kg			09/24/15 00:20	· · · · · · · · · · · · · · · · · · ·
N-Propylbenzene	ND	4.5	ug/Kg			09/24/15 00:20	. 1
Styrene	ND	4.5	ug/Kg			09/24/15 00:20	1
1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg			09/24/15 00:20	
1,1,2-Tetrachloroethane	ND	4.5	ug/Kg			09/24/15 00:20	1
Tetrachloroethene	ND	4.5	ug/Kg			09/24/15 00:20	1
Toluene	ND	4.5	ug/Kg			09/24/15 00:20	· · · · · · · · · · · · · · · · · · ·
1,2,3-Trichlorobenzene	ND	4.5	ug/Kg			09/24/15 00:20	1
1,2,4-Trichlorobenzene	ND	4.5	ug/Kg			09/24/15 00:20	1
1,1,1-Trichloroethane	ND	4.5	ug/Kg			09/24/15 00:20	· · · · · · · · · · · · · · · · · · ·
1,1,2-Trichloroethane	ND	4.5	ug/Kg			09/24/15 00:20	1
Trichloroethene	ND	4.5				09/24/15 00:20	
Trichlorofluoromethane	ND ND	4.5 4.5	ug/Kg ug/Kg			09/24/15 00:20	1 1
1,2,3-Trichloropropane	ND ND	4.5 4.5				09/24/15 00:20	! 1
' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	ND ND		ug/Kg			09/24/15 00:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.5	ug/Kg			09/24/15 00:20	1
1,2,4-Trimethylbenzene		4.5 4.5	ug/Kg				1
•							1 1
1,3,5-Trimethylbenzene Vinyl acetate	ND ND	4.5 18	ug/Kg ug/Kg			09/24/15 00:20 09/24/15 00:20	

Client: PES Environmental, Inc.

Project/Site: 39155 State St. Fremont

TestAmerica Job ID: 720-67532-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: B45S-3.0-4.0	Lab Sample ID: 720-67532-4
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Date Collected: 09/21/15 16:50

Date Received: 09/22/15 16:00

Matrix: Solid

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND —	4.5	ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Xylenes, Total	ND	9.0	ug/Kg		09/22/15 19:20	09/24/15 00:20	1
2,2-Dichloropropane	ND	4.5	ug/Kg		09/22/15 19:20	09/24/15 00:20	1
Gasoline Range Organics (GRO)	ND	220	ua/Ka		09/22/15 19:20	09/24/15 00:20	1

Gasoline Range Organics (GRO) ND 220 ug/Kg 09/22/15 19:20 09/24/15 00:20 -C5-C12

%Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene 99 45 - 131 09/22/15 19:20 09/24/15 00:20 1,2-Dichloroethane-d4 (Surr) 113 60 - 140 09/22/15 19:20 09/24/15 00:20 Toluene-d8 (Surr) 98 58 - 140 09/22/15 19:20 09/24/15 00:20

Client Sample ID: B46S-1.0-2.0 Lab Sample ID: 720-67532-5

Date Collected: 09/21/15 17:05 Matrix: Solid

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Acetone	ND	42		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Benzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Dichlorobromomethane	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Bromobenzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Chlorobromomethane	ND	17		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Bromoform	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Bromomethane	ND	8.5		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
2-Butanone (MEK)	ND	42		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
n-Butylbenzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
sec-Butylbenzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
tert-Butylbenzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Carbon disulfide	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Carbon tetrachloride	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Chlorobenzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Chloroethane	ND	8.5		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Chloroform	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Chloromethane	ND	8.5		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
2-Chlorotoluene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
4-Chlorotoluene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Chlorodibromomethane	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,2-Dichlorobenzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,3-Dichlorobenzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,4-Dichlorobenzene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,3-Dichloropropane	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,1-Dichloropropene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,2-Dibromo-3-Chloropropane	ND	8.5		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Ethylene Dibromide	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Dibromomethane	ND	8.5		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
Dichlorodifluoromethane	ND	8.5		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,1-Dichloroethane	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,2-Dichloroethane	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
1,1-Dichloroethene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
cis-1,2-Dichloroethene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1
trans-1,2-Dichloroethene	ND	4.2		ug/Kg		09/22/15 19:20	09/24/15 00:49	1

TestAmerica Pleasanton

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Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: B46S-1.0-2.0 Lab Sample ID: 720-67532-5 **Matrix: Solid**

Date Collected: 09/21/15 17:05 Date Received: 09/22/15 16:00

Analyte	Result Q	ualifier RL	MDL	Unit	D Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
cis-1,3-Dichloropropene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
trans-1,3-Dichloropropene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Ethylbenzene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Hexachlorobutadiene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
2-Hexanone	ND	42		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Isopropylbenzene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
4-Isopropyltoluene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Methylene Chloride	ND	8.5		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
4-Methyl-2-pentanone (MIBK)	ND	42		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Naphthalene	ND	8.5		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
N-Propylbenzene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Styrene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,1,1,2-Tetrachloroethane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,1,2,2-Tetrachloroethane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Tetrachloroethene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Toluene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,2,3-Trichlorobenzene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,2,4-Trichlorobenzene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,1,1-Trichloroethane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,1,2-Trichloroethane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Trichloroethene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Trichlorofluoromethane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,2,3-Trichloropropane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,2,4-Trimethylbenzene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
1,3,5-Trimethylbenzene	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Vinyl acetate	ND	17		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Vinyl chloride	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Xylenes, Total	ND	8.5		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
2,2-Dichloropropane	ND	4.2		ug/Kg	09/22/15 19:20	09/24/15 00:49	1
Gasoline Range Organics (GRO) -C5-C12	ND	210		ug/Kg	09/22/15 19:20	09/24/15 00:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	96		45 - 131	09/22/15 19:20	09/24/15 00:49	1
1,2-Dichloroethane-d4 (Surr)	112		60 - 140	09/22/15 19:20	09/24/15 00:49	1
Toluene-d8 (Surr)	96		58 - 140	09/22/15 19:20	09/24/15 00:49	1

Client Sample ID: B46S-3.0-4.0 Lab Sample ID: 720-67532-6 Date Collected: 09/21/15 17:15 **Matrix: Solid**

Date Received: 09/22/15 16:00

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND	3.9	ug/Kg	09/22/15 19:20	09/24/15 01:20	1
Acetone	ND	39	ug/Kg	09/22/15 19:20	09/24/15 01:20	1
Benzene	ND	3.9	ug/Kg	09/22/15 19:20	09/24/15 01:20	1
Dichlorobromomethane	ND	3.9	ug/Kg	09/22/15 19:20	09/24/15 01:20	1
Bromobenzene	ND	3.9	ug/Kg	09/22/15 19:20	09/24/15 01:20	1
Chlorobromomethane	ND	16	ug/Kg	09/22/15 19:20	09/24/15 01:20	1
Bromoform	ND	3.9	ug/Kg	09/22/15 19:20	09/24/15 01:20	1

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Client: PES Environmental, Inc.

Project/Site: 39155 State St. Fremont

TestAmerica Job ID: 720-67532-1

RL

MDL Unit

D

Prenared

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Result Qualifier

ND

Client Sample ID: B46S-3.0-4.0

Date Collected: 09/21/15 17:15

Date Received: 09/22/15 16:00

Analyte

cis-1,3-Dichloropropene

Hexachlorobutadiene

Isopropylbenzene

4-Isopropyltoluene

Methylene Chloride

N-Propylbenzene

Tetrachloroethene

4-Methyl-2-pentanone (MIBK)

1,1,1,2-Tetrachloroethane

1.1.2.2-Tetrachloroethane

1,2,3-Trichlorobenzene

1,2,4-Trichlorobenzene

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Ethylbenzene

2-Hexanone

Naphthalene

Styrene

Toluene

trans-1,3-Dichloropropene

Lab Sample ID: 720-67532-6

Analyzed

Matrix: Solid

Dil Fac

Analyte	Result Qualifier	KL	MDL OIIIL	ט	Prepareu	Allalyzeu	DII Fac
Bromomethane	ND ND	7.8	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
2-Butanone (MEK)	ND	39	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
n-Butylbenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
sec-Butylbenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
tert-Butylbenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Carbon disulfide	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Carbon tetrachloride	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Chlorobenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Chloroethane	ND	7.8	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Chloroform	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Chloromethane	ND	7.8	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
2-Chlorotoluene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
4-Chlorotoluene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Chlorodibromomethane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,2-Dichlorobenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,3-Dichlorobenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,4-Dichlorobenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,3-Dichloropropane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,1-Dichloropropene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,2-Dibromo-3-Chloropropane	ND	7.8	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Ethylene Dibromide	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Dibromomethane	ND	7.8	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Dichlorodifluoromethane	ND	7.8	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,1-Dichloroethane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,2-Dichloroethane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,1-Dichloroethene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
cis-1,2-Dichloroethene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
trans-1,2-Dichloroethene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,2-Dichloropropane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1

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ug/Kg

TestAmerica Pleasanton

09/22/15 19:20 09/24/15 01:20

09/22/15 19:20 09/24/15 01:20

09/22/15 19:20 09/24/15 01:20

09/22/15 19:20 09/24/15 01:20

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Client: PES Environmental, Inc. TestAmerica Job ID: 720-67532-1 Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: B46S-3.0-4.0 Lab Sample ID: 720-67532-6

Date Collected: 09/21/15 17:15 **Matrix: Solid** Date Received: 09/22/15 16:00

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Trichlorofluoromethane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,2,3-Trichloropropane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,2,4-Trimethylbenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
1,3,5-Trimethylbenzene	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Vinyl acetate	ND	16	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Vinyl chloride	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Xylenes, Total	ND	7.8	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
2,2-Dichloropropane	ND	3.9	ug/Kg		09/22/15 19:20	09/24/15 01:20	1
Gasoline Range Organics (GRO)	ND	190	ug/Kg		09/22/15 19:20	09/24/15 01:20	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 09/22/15 19:20 09/24/15 01:20 4-Bromofluorobenzene 100 45 - 131 1,2-Dichloroethane-d4 (Surr) 117 60 - 140 09/22/15 19:20 09/24/15 01:20 Toluene-d8 (Surr) 97 58 - 140 09/22/15 19:20 09/24/15 01:20

Client Sample ID: B47S-1.5-2.5 Lab Sample ID: 720-67532-7

-C5-C12

Date Collected: 09/21/15 17:3								
Date Received: 09/22/15 16:0 Analyte	0 Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Methyl tert-butyl ether	ND —	4.4	ug/Kg	— <u> </u>	09/22/15 19:20	09/24/15 01:49	1	
Acetone	ND	44	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Benzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Dichlorobromomethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Bromobenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Chlorobromomethane	ND	18	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Bromoform	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Bromomethane	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
2-Butanone (MEK)	ND	44	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
n-Butylbenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
sec-Butylbenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
tert-Butylbenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Carbon disulfide	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Carbon tetrachloride	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Chlorobenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Chloroethane	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Chloroform	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Chloromethane	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
2-Chlorotoluene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
4-Chlorotoluene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Chlorodibromomethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
1,2-Dichlorobenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
1,3-Dichlorobenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
1,4-Dichlorobenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
1,3-Dichloropropane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
1,1-Dichloropropene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
1,2-Dibromo-3-Chloropropane	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	
Ethylene Dibromide	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1	

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Client: PES Environmental, Inc.

Project/Site: 39155 State St. Fremont

TestAmerica Job ID: 720-67532-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: B47S-1.5-2.5

Date Collected: 09/21/15 17:35

Lab Sample ID: 720-67532-7

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	Matrix: Solid
	Matrix. Solid

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Dichlorodifluoromethane	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,1-Dichloroethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,2-Dichloroethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,1-Dichloroethene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
cis-1,2-Dichloroethene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
trans-1,2-Dichloroethene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,2-Dichloropropane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
cis-1,3-Dichloropropene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
trans-1,3-Dichloropropene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Ethylbenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Hexachlorobutadiene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
2-Hexanone	ND	44	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Isopropylbenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
4-Isopropyltoluene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Methylene Chloride	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
4-Methyl-2-pentanone (MIBK)	ND	44	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Naphthalene	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
N-Propylbenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Styrene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,1,2,2-Tetrachloroethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Tetrachloroethene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Toluene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,2,3-Trichlorobenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,2,4-Trichlorobenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,1,1-Trichloroethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,1,2-Trichloroethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Trichloroethene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Trichlorofluoromethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,2,3-Trichloropropane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,2,4-Trimethylbenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
1,3,5-Trimethylbenzene	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Vinyl acetate	ND	18	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Vinyl chloride	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Xylenes, Total	ND	8.8	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
2,2-Dichloropropane	ND	4.4	ug/Kg		09/22/15 19:20	09/24/15 01:49	1
Gasoline Range Organics (GRO) -C5-C12	ND	220	ug/Kg		09/22/15 19:20	09/24/15 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene	95		45 - 131	09/22/15 19:20 09/24/15 01:49	1
1,2-Dichloroethane-d4 (Surr)	117		60 - 140	09/22/15 19:20 09/24/15 01:49	1
Toluene-d8 (Surr)	95		58 - 140	09/22/15 19:20 09/24/15 01:49	1

TestAmerica Pleasanton

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Client: PES Environmental, Inc. TestAmerica Job ID: 720-67532-1 Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Client Sample ID: B47S-3.5-4.5

Lab Sample ID: 720-67532-8

Result Qualifier			_			
Neguli Wudiiilei	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
ND —	3.8	ug/Kg	— <u> </u>	•	09/24/15 02:20	1
ND	38					1
ND	3.8			09/22/15 19:20	09/24/15 02:20	1
ND						1
						1
						1
						1
						1
						1
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ND						1
						1
ND	38	ug/Kg				1
ND	7.6	ug/Kg				1
ND						1
ND	3.8	ug/Kg				1
	ND N	ND 38 ND 3.8 ND 3.8 ND 3.8 ND 15 ND 3.8 ND 3.8 ND 3.8 ND 3.8 ND 3.8 ND 3.8 ND 7.6 ND 3.8 ND 7.6 ND 3.8 N	ND 38 ug/Kg ND 3.8 ug/Kg ND 3.8 ug/Kg ND 3.8 ug/Kg ND 15 ug/Kg ND 3.8 ug/Kg ND 3.8	ND 38 ug/Kg ND 3.8 ug/Kg ND 3.8	ND 38 ug/Kg 09/22/15 19:20 ND 3.8 ug/Kg 09/22/15 19:20 ND 15 ug/Kg 09/22/15 19:20 ND 3.8 ug/Kg 09/22/15 19:20 ND 3.8 ug/Kg 09/22/15 19:20 ND 7.6 ug/Kg 09/22/15 19:20 ND 3.8 ug/Kg 09/22/15 19:20 ND 3	ND 3.8 ug/Kg 09:22/15 19:20 09:24/15 02:20 ND 15 ug/Kg 09:22/15 19:20 09:24/15 02:20 ND 15 ug/Kg 09:22/15 19:20 09:24/15 02:20 ND 3.8 ug/Kg 09:22/15 19:20

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09/22/15 19:20 09/24/15 02:20

09/22/15 19:20 09/24/15 02:20

09/22/15 19:20 09/24/15 02:20

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

4-Bromofluorobenzene

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

91

115

94

Client Sample ID: B47S-3.5-4 Date Collected: 09/21/15 17:4						Lab Sample ID: 720-67532-8 Matrix: Solid			
Date Received: 09/22/15 16:0 Analyte		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1,2,2-Tetrachloroethane	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Tetrachloroethene	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Toluene	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
1,2,3-Trichlorobenzene	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
1,2,4-Trichlorobenzene	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
1,1,1-Trichloroethane	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
1,1,2-Trichloroethane	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Trichloroethene	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Trichlorofluoromethane	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
1,2,3-Trichloropropane	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
1,2,4-Trimethylbenzene	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
1,3,5-Trimethylbenzene	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Vinyl acetate	ND	15		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Vinyl chloride	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Xylenes, Total	ND	7.6		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
2,2-Dichloropropane	ND	3.8		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Gasoline Range Organics (GRO) -C5-C12	ND	190		ug/Kg		09/22/15 19:20	09/24/15 02:20	1	
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac	

Client Sample ID: B50S-9.0-10.0	Lab Sample ID: 720-67532-9
Date Collected: 09/21/15 18:00	Matrix: Solid
Date Received: 09/22/15 16:00	

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Acetone	ND		40		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Benzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Dichlorobromomethane	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Bromobenzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Chlorobromomethane	ND		16		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Bromoform	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Bromomethane	ND		8.1		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
2-Butanone (MEK)	ND		40		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
n-Butylbenzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
sec-Butylbenzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
tert-Butylbenzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Carbon disulfide	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Carbon tetrachloride	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Chlorobenzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Chloroethane	ND		8.1		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Chloroform	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Chloromethane	ND		8.1		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
2-Chlorotoluene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
4-Chlorotoluene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Chlorodibromomethane	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1

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Client: PES Environmental, Inc. TestAmerica Job ID: 720-67532-1 Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: B50S-9.0-10.0

4-Bromofluorobenzene

Lab Sample ID: 720-67532-9

Date Received: 09/22/15 16:0		Ouglific:	D.	MOL	114:4	_	Duenered	A mal:!	Dil Fai
Analyte 1,2-Dichlorobenzene	ND	Qualifier	RL 4.0	MDL	ug/Kg	D	Prepared 09/22/15 19:20	Analyzed 09/24/15 02:51	Dil Fac
1,3-Dichlorobenzene	ND		4.0		ug/Kg ug/Kg			09/24/15 02:51	
•	ND ND		4.0		ug/Kg ug/Kg			09/24/15 02:51	
1,4-Dichloropenson									1
1,3-Dichloropropane	ND ND		4.0		ug/Kg			09/24/15 02:51	1
1,1-Dichloropropene			4.0		ug/Kg			09/24/15 02:51	1
1,2-Dibromo-3-Chloropropane	ND		8.1		ug/Kg			09/24/15 02:51	1
Ethylene Dibromide	ND		4.0		ug/Kg			09/24/15 02:51	1
Dibromomethane	ND		8.1		ug/Kg			09/24/15 02:51	1
Dichlorodifluoromethane	ND		8.1		ug/Kg			09/24/15 02:51	1
1,1-Dichloroethane	ND		4.0		ug/Kg			09/24/15 02:51	1
1,2-Dichloroethane	ND		4.0		ug/Kg			09/24/15 02:51	1
1,1-Dichloroethene	ND		4.0		ug/Kg			09/24/15 02:51	1
cis-1,2-Dichloroethene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
trans-1,2-Dichloroethene	ND		4.0		ug/Kg			09/24/15 02:51	1
1,2-Dichloropropane	ND		4.0	1	ug/Kg		09/22/15 19:20	09/24/15 02:51	1
cis-1,3-Dichloropropene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
trans-1,3-Dichloropropene	ND		4.0	1	ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Ethylbenzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Hexachlorobutadiene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
2-Hexanone	ND		40	ı	ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Isopropylbenzene	ND		4.0	į	ug/Kg		09/22/15 19:20	09/24/15 02:51	1
4-Isopropyltoluene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Methylene Chloride	ND		8.1	1	ug/Kg		09/22/15 19:20	09/24/15 02:51	1
4-Methyl-2-pentanone (MIBK)	ND		40	1	ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Naphthalene	ND		8.1		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
N-Propylbenzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Styrene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
1,1,1,2-Tetrachloroethane	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Tetrachloroethene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Toluene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
1,2,3-Trichlorobenzene	ND		4.0		ug/Kg		09/22/15 19:20	09/24/15 02:51	1
1,2,4-Trichlorobenzene	ND		4.0		ug/Kg			09/24/15 02:51	1
1,1,1-Trichloroethane	ND		4.0		ug/Kg			09/24/15 02:51	· · · · · · · · · · · · · · · · · · ·
1,1,2-Trichloroethane	ND		4.0		ug/Kg			09/24/15 02:51	1
Trichloroethene	ND		4.0		ug/Kg ug/Kg			09/24/15 02:51	1
Trichlorofluoromethane	ND		4.0		ug/Kg			09/24/15 02:51	
1,2,3-Trichloropropane	ND		4.0		ug/Kg			09/24/15 02:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0		ug/Kg ug/Kg			09/24/15 02:51	1
1,2,4-Trimethylbenzene	ND		4.0					09/24/15 02:51	
•	ND ND				ug/Kg				1
1,3,5-Trimethylbenzene	ND ND		4.0 16		ug/Kg			09/24/15 02:51 09/24/15 02:51	1
Vinyl ablarida					ug/Kg				
Vinyl chloride	ND		4.0		ug/Kg			09/24/15 02:51	1
Xylenes, Total	ND		8.1		ug/Kg			09/24/15 02:51	1
2,2-Dichloropropane	ND		4.0		ug/Kg			09/24/15 02:51	
Gasoline Range Organics (GRO) -C5-C12	ND		200	ı	ug/Kg		09/22/15 19:20	09/24/15 02:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

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09/22/15 19:20 09/24/15 02:51

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9/30/2015

Client: PES Environmental, Inc.

TestAmerica Job ID: 720-67532-1

Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Client Sample ID: B50S-9.0-10.0

Date Collected: 09/21/15 18:00

Lab Sample ID: 720-67532-9

Matrix: Solid

Date Received: 09/22/15 16:00

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119	60 - 140	09/22/15 19:20	09/24/15 02:51	1
Toluene-d8 (Surr)	95	58 - 140	09/22/15 19:20	09/24/15 02:51	1

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Client: PES Environmental, Inc.

Project/Site: 39155 State St. Fremont

Client Sample ID: B44S-1.0-2.0 Date Collected: 09/21/15 16:00							Lab San	nple ID: 720-6 Matrix	7532-1 : Solid
Date Received: 09/22/15 16:00 Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	190	- Qualifier			mg/Kg		09/28/15 09:13	09/29/15 21:04	20
Motor Oil Range Organics [C24-C36]	1200		1000		mg/Kg		09/28/15 09:13	09/29/15 21:04	20
Surrogate	%Recovery		Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	0	DX	40 - 130				09/28/15 09:13	09/29/15 21:04	20
Client Sample ID: B44S-3.0-4.0							Lab San	nple ID: 720-6	7532-2
Date Collected: 09/21/15 16:10								•	: Solid
Date Received: 09/22/15 16:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	49		1.0		mg/Kg		09/28/15 09:13	09/29/15 21:29	1
Motor Oil Range Organics	140		50		mg/Kg		09/28/15 09:13		1
[C24-C36]	140		50		myrxy		03/20/10 08.13	03123110 21.29	'
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	82		40 - 130				09/28/15 09:13	09/29/15 21:29	1
Client Sample ID: B45S-1.0-2.0 Date Collected: 09/21/15 16:40							Lab San	nple ID: 720-6 Matrix	7532-3 :: Solid
Date Received: 09/22/15 16:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	25		0.99		mg/Kg		09/28/15 09:13	09/29/15 21:53	1
Motor Oil Range Organics [C24-C36]	130		49		mg/Kg		09/28/15 09:13	09/29/15 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	67		40 - 130				09/28/15 09:13	09/29/15 21:53	1
Client Sample ID: B45S-3.0-4.0							Lab San	nple ID: 720-6	7532-4
Date Collected: 09/21/15 16:50								•	: Solid
Date Received: 09/22/15 16:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	30		0.99		mg/Kg			09/29/15 22:18	1
			50				09/28/15 09:13		
Motor Oil Range Organics [C24-C36]	94		50		mg/Kg		09/26/15 09.15	09/29/15 22.16	'
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
p-Terphenyl	80		40 - 130				09/28/15 09:13	09/29/15 22:18	1
Client Sample ID: B46S-1.0-2.0							Lah San	nple ID: 720-6	7532-5
Date Collected: 09/21/15 17:05								-	: Solid
Date Received: 09/22/15 16:00		.				_			5
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	48		0.99		mg/Kg		09/28/15 09:13		1
Motor Oil Range Organics [C24-C36]	190		50		mg/Kg		09/28/15 09:13	09/29/15 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

9/30/2015

Client: PES Environmental, Inc. TestAmerica Job ID: 720-67532-1

Project/Site: 39155 State St. Fremont

Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: B46S-3.0-4.0	Lab Sample ID: 720-67532-6
Date Collected: 09/21/15 17:15	Matrix: Solid

Date Collected: 09/21/15 17:15 Date Received: 09/22/15 16:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	59		0.99		mg/Kg		09/28/15 09:13	09/29/15 23:06	1
Motor Oil Range Organics	180		50		mg/Kg		09/28/15 09:13	09/29/15 23:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	92		40 - 130	09/28/15 09:13	09/29/15 23:06	1

Client Sample ID: B47S-1.5-2.5 Lab Sample ID: 720-67532-7 Date Collected: 09/21/15 17:35 **Matrix: Solid**

Date Received: 09/22/15 16:00

Buto Hoodivour Corzzi io Torco									
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	170		20		mg/Kg		09/28/15 14:52	09/29/15 22:18	20
Motor Oil Range Organics	1400		990		mg/Kg		09/28/15 14:52	09/29/15 22:18	20

%Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 0 DX 40 - 130 09/28/15 14:52 09/29/15 22:18 p-Terphenyl

Client Sample ID: B47S-3.5-4.5 Lab Sample ID: 720-67532-8 Date Collected: 09/21/15 17:45 **Matrix: Solid**

Date Received: 09/22/15 16:00

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	43	1.0	mg/Kg		09/28/15 14:52	09/29/15 21:53	1
Motor Oil Range Organics [C24-C36]	140	50	mg/Kg		09/28/15 14:52	09/29/15 21:53	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac p-Terphenyl 95 40 - 130 <u>09/28/15 14:52</u> <u>09/29/15 21:53</u>

Client Sample ID: B50S-9.0-10.0

Date Collected: 09/21/15 18:00

Date Received: 09/22/15 16:00

Buto 1100011001 00/22/10 10:00							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.5	0.99	mg/Kg		09/28/15 14:52	09/29/15 21:29	1
Motor Oil Range Organics [C24-C36]	ND	49	mg/Kg		09/28/15 14:52	09/29/15 21:29	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 09/28/15 14:52 09/29/15 21:29 91 40 - 130 p-Terphenyl

9/30/2015

Lab Sample ID: 720-67532-9

Matrix: Solid

Client: PES Environmental, Inc.

TestAmerica Job ID: 720-67532-1

Project/Site: 39155 State St. Fremont

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup

Client Sample ID: B44S-1.0-2.0							Lab San	nple ID: 720-6		
Date Collected: 09/21/15 16:00								Matrix	: Solid	
Date Received: 09/22/15 16:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics [C10-C28]	140		10		mg/Kg		09/28/15 09:20	09/29/15 23:55	10	
Motor Oil Range Organics	850		500		ma/Ka		09/28/15 09:20	09/29/15 23:55	10	

[C24-C36]

**Pacayary Qualifier Limits

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Capric Acid (Surr) 0 - 1 09/28/15 09:20 09/29/15 23:55 10 O 09/28/15 09:20 09/29/15 23:55 p-Terphenyl 0 DX 38 - 148 10

Client Sample ID: B44S-3.0-4.0

Date Collected: 09/21/15 16:10

Date Received: 09/22/15 16:00

Lab Sample ID: 720-67532-2

Matrix: Solid

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac 1.0 09/28/15 09:20 09/29/15 17:03 **Diesel Range Organics [C10-C28]** 42 mg/Kg 50 09/28/15 09:20 09/29/15 17:03 **Motor Oil Range Organics** 130 mg/Kg [C24-C36]

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 Capric Acid (Surr)
 0.2
 0 - 1
 09/28/15 09:20
 09/29/15 17:03
 1

 p-Terphenyl
 98
 38 - 148
 09/28/15 09:20
 09/29/15 17:03
 1

Client Sample ID: B45S-1.0-2.0 Lab Sample ID: 720-67532-3

Date Collected: 09/21/15 16:40 Matrix: Solid

Date Received: 09/22/15 16:00

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac **Diesel Range Organics [C10-C28]** 18 0.99 mg/Kg 09/28/15 09:20 09/29/15 17:52 **Motor Oil Range Organics** 100 49 mg/Kg 09/28/15 09:20 09/29/15 17:52 [C24-C36]

 Surrogate
 %Recovery Capric Acid (Surr)
 Qualifier On-1
 Limits On-1
 Prepared On-1
 Analyzed On-1
 Dil Fac On-1

 p-Terphenyl
 88
 38 - 148
 09/28/15 09:20
 09/29/15 17:52
 1

Client Sample ID: B45S-3.0-4.0

Date Collected: 09/21/15 16:50

Lab Sample ID: 720-67532-4

Matrix: Solid

Date Received: 09/22/15 16:00

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 0.99 09/28/15 09:20 09/29/15 16:39 **Diesel Range Organics [C10-C28]** 23 mg/Kg **Motor Oil Range Organics 72** 50 mg/Kg 09/28/15 09:20 09/29/15 16:39 [C24-C36]

 Surrogate
 %Recovery Capric Acid (Surr)
 Qualifier O-1
 Limits O-1
 Prepared O9/28/15 09:20
 Analyzed O9/29/15 16:39
 Dil Fac O9/28/15 09:20

 p-Terphenyl
 80
 38 - 148
 09/28/15 09:20
 09/29/15 16:39
 1

Client Sample ID: B46S-1.0-2.0 Lab Sample ID: 720-67532-5
Date Collected: 09/21/15 17:05

Matrix: Solid

Date Received: 09/22/15 16:00

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.99 mg/Kg 09/28/15 09:20 09/29/15 18:16 **Diesel Range Organics [C10-C28]** 41 170 50 mg/Kg 09/28/15 09:20 09/29/15 18:16 **Motor Oil Range Organics** [C24-C36]

TestAmerica Pleasanton

9/30/2015

Client: PES Environmental, Inc. TestAmerica Job ID: 720-67532-1

Project/Site: 39155 State St. Fremont

p-Terphenyl

Method: 8015B - Diesel Range Organics (DRO) (GC) - Silica Gel Cleanup (Continued)

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil F
Capric Acid (Surr)	0.01		0 - 1				09/28/15 09:20	09/29/15 18:16	
p-Terphenyl	104		38 - 148				09/28/15 09:20	09/29/15 18:16	
Client Sample ID: B46S-3.0-4.0							Lab San	nple ID: 720-6	7532
Date Collected: 09/21/15 17:15								Matrix	
Date Received: 09/22/15 16:00								in del D	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Diesel Range Organics [C10-C28]	47		0.99		mg/Kg	_ =	09/28/15 09:20	09/29/15 17:28	
Motor Oil Range Organics	150		50		mg/Kg			09/29/15 17:28	
C24-C36]					919		00/20/10/00/20	00/20/10 11.20	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil l
Capric Acid (Surr)	0.05		0 - 1				09/28/15 09:20	09/29/15 17:28	
p-Terphenyl	99		38 - 148				09/28/15 09:20	09/29/15 17:28	
Client Sample ID: B47S-1.5-2.5							Lah San	nple ID: 720-6	7532
Date Collected: 09/21/15 17:35								Matrix	
Date Received: 09/22/15 16:00								Matrix	00
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Diesel Range Organics [C10-C28]	130		9.9		mg/Kg		09/28/15 09:20	09/30/15 00:19	
Motor Oil Range Organics	840		490		mg/Kg		09/28/15 09:20	09/30/15 00:19	
C24-C36]	040		100		g/rtg		00/20/10 00:20	00/00/10 00:10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil I
Capric Acid (Surr)	0		0 - 1				09/28/15 09:20	09/30/15 00:19	
p-Terphenyl	0	DX	38 - 148				09/28/15 09:20	09/30/15 00:19	
Client Sample ID: B47S-3.5-4.5							Lab San	nple ID: 720-6	7532
Date Collected: 09/21/15 17:45								Matrix	c: So
Date Received: 09/22/15 16:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Diesel Range Organics [C10-C28]	31		1.0		mg/Kg		09/28/15 09:20	09/29/15 18:40	
Motor Oil Range Organics	110		50		mg/Kg		09/28/15 09:20	09/29/15 18:40	
C24-C36]									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil
Capric Acid (Surr)	0.04		0 - 1				09/28/15 09:20	09/29/15 18:40	
p-Terphenyl	88		38 - 148				09/28/15 09:20	09/29/15 18:40	
Client Sample ID: B50S-9.0-10.	0						Lab San	nple ID: 720-6	
Date Collected: 09/21/15 18:00								Matrix	c: So
Date Received: 09/22/15 16:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Diesel Range Organics [C10-C28]	ND		0.99		mg/Kg		09/28/15 09:20	09/29/15 16:39	
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		09/28/15 09:20	09/29/15 16:39	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil l
	0.00		0 - 1				00/28/15 00:20	09/29/15 16:39	
Capric Acid (Surr)	0.03		0 - 1				09/20/10 09.20	03/23/10 10.03	

9/30/2015

09/28/15 09:20 09/29/15 16:39

38 - 148

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Solid Prep Type: Total/NA

			Pe	ercent Surre
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(45-131)	(60-140)	(58-140)
720-67532-1	B44S-1.0-2.0	100	109	99
720-67532-2	B44S-3.0-4.0	99	112	99
720-67532-3	B45S-1.0-2.0	99	115	97
720-67532-4	B45S-3.0-4.0	99	113	98
720-67532-5	B46S-1.0-2.0	96	112	96
720-67532-6	B46S-3.0-4.0	100	117	97
720-67532-7	B47S-1.5-2.5	95	117	95
720-67532-8	B47S-3.5-4.5	91	115	94
720-67532-9	B50S-9.0-10.0	98	119	95
LCS 720-189512/5	Lab Control Sample	102	113	102
LCS 720-189512/7	Lab Control Sample	104	111	100
LCSD 720-189512/6	Lab Control Sample Dup	101	104	102
LCSD 720-189512/8	Lab Control Sample Dup	103	107	100
MB 720-189512/4	Method Blank	101	114	100

BFB = 4-Bromofluorobenzene

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		PTP1	
Lab Sample ID	Client Sample ID	(40-130)	
720-67532-1	B44S-1.0-2.0	0 D X	
720-67532-2	B44S-3.0-4.0	82	
720-67532-3	B45S-1.0-2.0	67	
720-67532-4	B45S-3.0-4.0	80	
720-67532-5	B46S-1.0-2.0	92	
720-67532-6	B46S-3.0-4.0	92	
720-67532-7	B47S-1.5-2.5	0 D X	
720-67532-8	B47S-3.5-4.5	95	
720-67532-9	B50S-9.0-10.0	91	
LCS 720-189721/2-A	Lab Control Sample	96	
LCS 720-189742/2-A	Lab Control Sample	107	
MB 720-189721/1-A	Method Blank	104	
MB 720-189742/1-A	Method Blank	107	
Surrogate Legend PTP = p-Terphenyl	Wethod Blank	107	

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance Limits)	
		NDA1	PTP1	
Lab Sample ID	Client Sample ID	(0-1)	(38-148)	
720-67532-1	B44S-1.0-2.0	0	0 D X	<u> </u>

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Surrogate Summary

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont TestAmerica Job ID: 720-67532-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid Prep Type: Silica Gel Cleanup

			Percent Surrogate Recovery (Acceptance	Limits)
		NDA1	PTP1	
Lab Sample ID	Client Sample ID	(0-1)	(38-148)	
720-67532-2	B44S-3.0-4.0	0.2	98	
720-67532-3	B45S-1.0-2.0	0.006	88	
720-67532-4	B45S-3.0-4.0	0.4	80	
720-67532-5	B46S-1.0-2.0	0.01	104	
720-67532-6	B46S-3.0-4.0	0.05	99	
720-67532-7	B47S-1.5-2.5	0	0 D X	
720-67532-8	B47S-3.5-4.5	0.04	88	
720-67532-9	B50S-9.0-10.0	0.03	89	
LCS 720-189723/2-A	Lab Control Sample		101	
MB 720-189723/1-A	Method Blank	0.008	106	

NDA = Capric Acid (Surr)

PTP = p-Terphenyl

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 39155 State St. Fremont

TestAmerica Job ID: 720-67532-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-189512/4 Matrix: Solid

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

Analysis Batch: 189512	MB	MB							
Analyte	Result	Qualifier	RL	MDL Ur	nit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Acetone	ND		50	ug	ı/Kg			09/23/15 19:52	1
Benzene	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Dichlorobromomethane	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Bromobenzene	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Chlorobromomethane	ND		20	ug	ı/Kg			09/23/15 19:52	1
Bromoform	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Bromomethane	ND		10	ug	ı/Kg			09/23/15 19:52	1
2-Butanone (MEK)	ND		50	ug	ı/Kg			09/23/15 19:52	1
n-Butylbenzene	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
sec-Butylbenzene	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
tert-Butylbenzene	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Carbon disulfide	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Carbon tetrachloride	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Chlorobenzene	ND		5.0	ug	ı/Kg			09/23/15 19:52	1
Chloroethane	ND		10	ug	ı/Kg			09/23/15 19:52	1
Chloroform	ND		5.0		ı/Kg			09/23/15 19:52	1
Chloromethane	ND		10		ı/Kg			09/23/15 19:52	1
2-Chlorotoluene	ND		5.0		ı/Kg			09/23/15 19:52	1
4-Chlorotoluene	ND		5.0		ı/Kg			09/23/15 19:52	1
Chlorodibromomethane	ND		5.0	_	ı/Kg			09/23/15 19:52	1
1,2-Dichlorobenzene	ND		5.0		ı/Kg			09/23/15 19:52	1
1,3-Dichlorobenzene	ND		5.0	_	/Kg			09/23/15 19:52	1
1,4-Dichlorobenzene	ND		5.0	_	ı/Kg			09/23/15 19:52	1
1,3-Dichloropropane	ND		5.0		ı/Kg			09/23/15 19:52	1
1,1-Dichloropropene	ND		5.0	_	/Kg			09/23/15 19:52	1
1,2-Dibromo-3-Chloropropane	ND		10	_	ı/Kg			09/23/15 19:52	1
Ethylene Dibromide	ND		5.0		ı/Kg			09/23/15 19:52	
Dibromomethane	ND		10	-	/Kg			09/23/15 19:52	1
Dichlorodifluoromethane	ND		10		/Kg			09/23/15 19:52	1
1.1-Dichloroethane	ND		5.0	.	/Kg			09/23/15 19:52	1
1.2-Dichloroethane	ND		5.0		/Kg			09/23/15 19:52	1
1,1-Dichloroethene	ND		5.0		/ S J/Kg			09/23/15 19:52	1
cis-1,2-Dichloroethene	ND		5.0	.	/Kg			09/23/15 19:52	1
trans-1,2-Dichloroethene	ND		5.0		/ S J/Kg			09/23/15 19:52	1
1,2-Dichloropropane	ND		5.0	-	ı/Kg			09/23/15 19:52	1
cis-1,3-Dichloropropene	ND		5.0		ı/Kg			09/23/15 19:52	1
trans-1,3-Dichloropropene	ND		5.0		ı/Kg			09/23/15 19:52	1
Ethylbenzene	ND		5.0		ı/Kg			09/23/15 19:52	1
Hexachlorobutadiene	ND		5.0		ı/Kg			09/23/15 19:52	
2-Hexanone	ND		50		ı/Kg			09/23/15 19:52	1
Isopropylbenzene	ND		5.0		ı/Kg ı/Kg			09/23/15 19:52	1
4-Isopropyltoluene	ND		5.0		ı/Kg			09/23/15 19:52	· · · · · · · · · · · · · · · · · · ·
Methylene Chloride	ND		10		ı/Kg ı/Kg			09/23/15 19:52	1
4-Methyl-2-pentanone (MIBK)	ND		50		ı/Kg ı/Kg			09/23/15 19:52	1
Naphthalene	ND		10		j/Kg j/Kg			09/23/15 19:52	········ 1
N-Propylbenzene	ND		5.0		ı/Kg ı/Kg			09/23/15 19:52	1
Styrene	ND ND		5.0	-	_J /Kg _J /Kg			09/23/15 19:52	1

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Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Lab Sample ID: MB 720-189512/4

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

ND

ND

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 189512

MB MB Result Qualifier **MDL** Unit Analyte RL Prepared Analyzed Dil Fac 1,1,1,2-Tetrachloroethane $\overline{\mathsf{ND}}$ 5.0 09/23/15 19:52 ug/Kg 1,1,2,2-Tetrachloroethane ND 5.0 ug/Kg 09/23/15 19:52 Tetrachloroethene ND 5.0 ug/Kg 09/23/15 19:52 Toluene ND 5.0 ug/Kg 09/23/15 19:52 1,2,3-Trichlorobenzene ND 5.0 ug/Kg 09/23/15 19:52 1,2,4-Trichlorobenzene ND 5.0 ug/Kg 09/23/15 19:52 1,1,1-Trichloroethane ND 5.0 ug/Kg 09/23/15 19:52 1,1,2-Trichloroethane ND 5.0 ug/Kg 09/23/15 19:52 Trichloroethene ND 5.0 ug/Kg 09/23/15 19:52 5.0 Trichlorofluoromethane ND ug/Kg 09/23/15 19:52 1,2,3-Trichloropropane ND 5.0 ug/Kg 09/23/15 19:52 1,1,2-Trichloro-1,2,2-trifluoroethane ND 5.0 ug/Kg 09/23/15 19:52 1,2,4-Trimethylbenzene ND 5.0 ug/Kg 09/23/15 19:52 ND 1,3,5-Trimethylbenzene 5.0 09/23/15 19:52 ug/Kg Vinyl acetate ND 20 ug/Kg 09/23/15 19:52 Vinyl chloride ND 5.0 ug/Kg 09/23/15 19:52 Xylenes, Total ND 10 ug/Kg 09/23/15 19:52

MB MB

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 45 - 131 09/23/15 19:52 4-Bromofluorobenzene 101 1,2-Dichloroethane-d4 (Surr) 60 - 140 09/23/15 19:52 114 58 - 140 Toluene-d8 (Surr) 100 09/23/15 19:52

5.0

250

ug/Kg

ug/Kg

Lab Sample ID: LCS 720-189512/5

Matrix: Solid

2,2-Dichloropropane

-C5-C12

Gasoline Range Organics (GRO)

Analysis Batch: 189512

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

09/23/15 19:52

09/23/15 19:52

7 maryolo Batom 100012	.						a	
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Methyl tert-butyl ether	50.0	58.2		ug/Kg		116	70 - 144	
Acetone	250	297		ug/Kg		119	30 - 162	
Benzene	50.0	53.6		ug/Kg		107	70 - 130	
Dichlorobromomethane	50.0	58.7		ug/Kg		117	70 - 140	
Bromobenzene	50.0	54.8		ug/Kg		110	70 - 130	
Chlorobromomethane	50.0	52.1		ug/Kg		104	70 - 130	
Bromoform	50.0	55.6		ug/Kg		111	59 - 158	
Bromomethane	50.0	54.0		ug/Kg		108	59 - 132	
2-Butanone (MEK)	250	283		ug/Kg		113	53 - 133	
n-Butylbenzene	50.0	60.0		ug/Kg		120	70 - 142	
sec-Butylbenzene	50.0	56.1		ug/Kg		112	70 - 136	
tert-Butylbenzene	50.0	53.3		ug/Kg		107	70 - 130	
Carbon disulfide	50.0	47.6		ug/Kg		95	60 - 140	
Carbon tetrachloride	50.0	65.5		ug/Kg		131	70 - 142	
Chlorobenzene	50.0	52.7		ug/Kg		105	70 - 130	
Chloroethane	50.0	54.0		ug/Kg		108	65 - 130	
Chloroform	50.0	55.7		ug/Kg		111	77 - 127	

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QC Sample Results

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont TestAmerica Job ID: 720-67532-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-189512/5

Matrix: Solid

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

Spike Added 50.0	Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
						⊑ 1111110
	41.8		ug/Kg		84	55 - 140
50.0	56.3		ug/Kg		113	70 - 138
50.0	56.7		ug/Kg		113	70 - 136
						70 - 146
						70 - 130
						70 - 131
						70 - 130
						70 - 140
						70 - 130
						60 ₋ 145
						70 - 140
						70 ₋ 139
						37 - 158
						70 - 130
						70 - 130
						74 - 122
						70 - 138
						67 - 130
					105	73 - 127
50.0	57.9		ug/Kg		116	68 - 147
50.0	66.2		ug/Kg		132	70 - 155
50.0	53.1		ug/Kg		106	80 - 137
50.0	64.4		ug/Kg		129	70 - 132
250	316		ug/Kg		126	44 - 133
50.0	54.2		ug/Kg		108	70 - 130
50.0	55.5		ug/Kg		111	70 - 133
50.0	55.6		ug/Kg		111	70 - 134
250	318		ug/Kg		127	60 - 160
50.0	56.1				112	60 - 147
50.0	54.9				110	70 - 130
50.0	49.2				98	70 - 130
					118	70 - 130
						70 - 146
						70 - 132
						80 - 128
						60 - 140
						60 ₋ 140
						70 - 130
						70 - 130 70 - 130
						70 - 133
						60 - 140 70 - 146
						70 - 146
50.0	52.9		ug/Kg		106	60 - 140
50.0	50.5		ua/Ka		101	70 - 130
						70 - 130 70 - 131
						38 ₋ 176 58 ₋ 125
	50.0 50.0 250 50.0 50.0 50.0 250	50.0 55.0 50.0 54.9 50.0 55.5 50.0 52.6 50.0 57.9 50.0 55.3 50.0 55.1 50.0 55.0 50.0 55.0 50.0 57.9 50.0 52.7 50.0 52.7 50.0 57.9 50.0 57.9 50.0 57.9 50.0 57.9 50.0 57.9 50.0 57.9 50.0 57.9 50.0 57.9 50.0 53.1 50.0 54.2 50.0 55.5 50.0 55.5 50.0 55.5 50.0 56.1 50.0 59.2 50.0 50.7 50.0 52.5 50.0 52.5 50.0 52.5 50.0 55.5 50.0 55.5 50.0 55.5 50.0	50.0 55.0 50.0 54.9 50.0 55.5 50.0 52.6 50.0 57.9 50.0 53.2 50.0 55.3 50.0 55.1 50.0 48.3 50.0 55.0 50.0 57.9 50.0 52.7 50.0 52.7 50.0 52.7 50.0 52.7 50.0 57.9 50.0 52.7 50.0 52.7 50.0 53.1 50.0 53.1 50.0 53.1 50.0 54.2 50.0 55.5 50.0 55.5 50.0 55.6 250 318 50.0 54.9 50.0 54.9 50.0 59.2 50.0 50.7 50.0 58.5 50.0 50.7 50.0 52.5 50.0 52.5 50.0	50.0 55.0 ug/Kg 50.0 54.9 ug/Kg 50.0 55.5 ug/Kg 50.0 52.6 ug/Kg 50.0 57.9 ug/Kg 50.0 53.2 ug/Kg 50.0 55.3 ug/Kg 50.0 55.1 ug/Kg 50.0 48.3 ug/Kg 50.0 55.0 ug/Kg 50.0 55.0 ug/Kg 50.0 57.9 ug/Kg 50.0 53.0 ug/Kg 50.0 52.7 ug/Kg 50.0 52.7 ug/Kg 50.0 57.9 ug/Kg 50.0 53.1 ug/Kg 50.0 55.5 u	50.0 55.0 ug/Kg 50.0 54.9 ug/Kg 50.0 55.5 ug/Kg 50.0 52.6 ug/Kg 50.0 57.9 ug/Kg 50.0 53.2 ug/Kg 50.0 55.3 ug/Kg 50.0 55.1 ug/Kg 50.0 48.3 ug/Kg 50.0 55.0 ug/Kg 50.0 55.0 ug/Kg 50.0 57.9 ug/Kg 50.0 53.0 ug/Kg 50.0 52.7 ug/Kg 50.0 52.7 ug/Kg 50.0 57.9 ug/Kg 50.0 58.1 u	50.0 55.0 ug/Kg 110 50.0 54.9 ug/Kg 110 50.0 55.5 ug/Kg 111 50.0 55.6 ug/Kg 105 50.0 57.9 ug/Kg 116 50.0 55.3 ug/Kg 111 50.0 55.1 ug/Kg 110 50.0 55.1 ug/Kg 110 50.0 55.1 ug/Kg 110 50.0 55.0 ug/Kg 110 50.0 55.0 ug/Kg 116 50.0 57.9 ug/Kg 16 50.0 52.7 ug/Kg 106 50.0 52.7 ug/Kg 105 50.0 52.7 ug/Kg 105 50.0 57.9 ug/Kg 106 50.0 57.9 ug/Kg 106 50.0 57.9 ug/Kg 106 50.0 54.2 ug/Kg 126

TestAmerica Pleasanton

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-189512/5

Matrix: Solid

Analysis Batch: 189512

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

	%Rec.
D %Rec	Limits
114	70 - 146
107	70 - 140
144	70 - 162
_	114 107

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene	102		45 - 131
1,2-Dichloroethane-d4 (Surr)	113		60 - 140
Toluene-d8 (Surr)	102		58 - 140

Lab Sample ID: LCS 720-189512/7

Matrix: Solid

Analysis Batch: 189512

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

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)	1000	1180		ug/Kg		118	61 - 128	
C5 C12								

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 104 45 - 131 1,2-Dichloroethane-d4 (Surr) 60 - 140 111 Toluene-d8 (Surr) 100 58 - 140

Lab Sample ID: LCSD 720-189512/6 **Client Sample ID: Lab Control Sample Dup Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 189512

Alialysis Batch. 109912	-						a. –		
	Spike		LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Methyl tert-butyl ether	50.0	58.3		ug/Kg		117	70 - 144	0	20
Acetone	250	303		ug/Kg		121	30 - 162	2	30
Benzene	50.0	53.4		ug/Kg		107	70 - 130	0	20
Dichlorobromomethane	50.0	58.2		ug/Kg		116	70 - 140	1	20
Bromobenzene	50.0	55.7		ug/Kg		111	70 - 130	2	20
Chlorobromomethane	50.0	51.8		ug/Kg		104	70 - 130	1	20
Bromoform	50.0	55.4		ug/Kg		111	59 - 158	0	20
Bromomethane	50.0	54.0		ug/Kg		108	59 - 132	0	20
2-Butanone (MEK)	250	280		ug/Kg		112	53 - 133	1	20
n-Butylbenzene	50.0	59.1		ug/Kg		118	70 - 142	2	20
sec-Butylbenzene	50.0	56.2		ug/Kg		112	70 - 136	0	20
tert-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 130	1	20
Carbon disulfide	50.0	47.8		ug/Kg		96	60 - 140	0	20
Carbon tetrachloride	50.0	64.6		ug/Kg		129	70 - 142	1	20
Chlorobenzene	50.0	52.5		ug/Kg		105	70 - 130	0	20
Chloroethane	50.0	53.5		ug/Kg		107	65 - 130	1	20
Chloroform	50.0	55.5		ug/Kg		111	77 - 127	0	20
Chloromethane	50.0	40.9		ug/Kg		82	55 - 140	2	20
2-Chlorotoluene	50.0	56.3		ug/Kg		113	70 - 138	0	20
4-Chlorotoluene	50.0	57.2		ug/Kg		114	70 - 136	1	20
Chlorodibromomethane	50.0	59.7		ug/Kg		119	70 - 146	1	20

TestAmerica Pleasanton

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QC Sample Results

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont TestAmerica Job ID: 720-67532-1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-189512/6

Matrix: Solid

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 189512	Spike	LCSD	LCSD			%Rec.		RPD	
Analyte	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dichlorobenzene	50.0	54.9		ug/Kg	— <u> </u>	110	70 - 130	0	20
1,3-Dichlorobenzene	50.0	54.8		ug/Kg		110	70 - 131	0	20
1,4-Dichlorobenzene	50.0	55.8		ug/Kg		112	70 ₋ 130	1	20
1,3-Dichloropropane	50.0	51.7		ug/Kg		103	70 - 140	2	20
1,1-Dichloropropene	50.0	56.9		ug/Kg		114	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	51.8		ug/Kg		104	60 - 145	3	20
Ethylene Dibromide	50.0	53.7		ug/Kg		107	70 - 140	3	20
Dibromomethane	50.0	54.7		ug/Kg		109	70 - 139	1	20
Dichlorodifluoromethane	50.0	47.5		ug/Kg		95	37 - 158	2	20
1,1-Dichloroethane	50.0	54.6		ug/Kg		109	70 - 130	1	20
1,2-Dichloroethane	50.0	63.5		ug/Kg		127	70 - 130	9	20
1,1-Dichloroethene	50.0	47.8		ug/Kg		96	74 - 122	0	20
cis-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	70 - 138	1	20
trans-1,2-Dichloroethene	50.0	52.7		ug/Kg		105	67 - 130	0	20
1,2-Dichloropropane	50.0	52.5		ug/Kg		105	73 - 127	0	20
cis-1,3-Dichloropropene	50.0	57.4		ug/Kg		115	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	65.4		ug/Kg		131	70 - 155	1	20
Ethylbenzene	50.0	52.3		ug/Kg		105	80 - 137	2	20
Hexachlorobutadiene	50.0	64.8		ug/Kg		130	70 - 132	1	20
2-Hexanone	250	308		ug/Kg		123	44 - 133	3	20
Isopropylbenzene	50.0	53.3		ug/Kg		107	70 - 130	2	20
4-Isopropyltoluene	50.0	55.7		ug/Kg		111	70 - 133	0	20
Methylene Chloride	50.0	55.7		ug/Kg		111	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)	250	306		ug/Kg		122	60 - 160	4	20
Naphthalene	50.0	56.1		ug/Kg		112	60 - 147	0	20
N-Propylbenzene	50.0	55.1		ug/Kg		110	70 - 130	0	20
Styrene	50.0	48.7		ug/Kg		97	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	59.0		ug/Kg		118	70 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/Kg		103	70 - 146	2	20
Tetrachloroethene	50.0	57.9		ug/Kg		116	70 - 132	1	20
Toluene	50.0	51.6		ug/Kg		103	80 - 128	1	20
1,2,3-Trichlorobenzene	50.0	58.6		ug/Kg		117	60 - 140	2	20
1,2,4-Trichlorobenzene	50.0	62.6		ug/Kg		125	60 - 140	2	20
1,1,1-Trichloroethane	50.0	60.7		ug/Kg		121	70 - 130	1	20
1,1,2-Trichloroethane	50.0	52.2		ug/Kg		104	70 - 130	1	20
Trichloroethene	50.0	55.7		ug/Kg		111	70 - 133	1	20
Trichlorofluoromethane	50.0	58.1		ug/Kg		116	60 - 140	2	20
1,2,3-Trichloropropane	50.0	54.8		ug/Kg		110	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	52.3		ug/Kg		105	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	57.7		ug/Kg		115	70 - 131	0	20
Vinyl acetate	50.0	51.0		ug/Kg		102	38 - 176	4	20
Vinyl chloride	50.0	52.7		ug/Kg		105	58 - 125	1	20
m-Xylene & p-Xylene	50.0	56.1		ug/Kg		112	70 - 146	2	20
o-Xylene	50.0	53.1		ug/Kg		106	70 - 140	1	20
2,2-Dichloropropane	50.0	71.4		ug/Kg		143	70 - 162	0	20

TestAmerica Pleasanton

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Limits

Method: 8260B/CA LUFTMS - 8260B / CA LUFT MS (Continued)

LCSD LCSD

Lab Sample ID: LCSD 720-189512/6

Lab Sample ID: LCSD 720-189512/8

Matrix: Solid

Analysis Batch: 189512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

%Recovery Qualifier Surrogate 4-Bromofluorobenzene 101

45 - 131 1,2-Dichloroethane-d4 (Surr) 104 60 - 140 Toluene-d8 (Surr) 102 58 - 140

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

Matrix: Solid

Analysis Batch: 189512

Gasoline Range Organics (GRO)

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limits RPD Limit Unit D %Rec 1000 1170 20 ug/Kg 117 61 - 128 0

-C5-C12

Analyte

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
4-Bromofluorobenzene	103	45 - 131
1,2-Dichloroethane-d4 (Surr)	107	60 - 140
Toluene-d8 (Surr)	100	58 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-189721/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 189720

Prep Type: Total/NA Prep Batch: 189721 MB MB

MDL Unit Analyte Result Qualifier RL Dil Fac Prepared Analyzed Diesel Range Organics [C10-C28] ND 1.0 mg/Kg 09/28/15 09:13 09/29/15 03:16 Motor Oil Range Organics [C24-C36] ND 50 09/28/15 09:13 09/29/15 03:16 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac p-Terphenyl 104 40 - 130 09/28/15 09:13 09/29/15 03:16

Lab Sample ID: LCS 720-189721/2-A

Matrix: Solid

Analysis Batch: 189720

Client Sample ID: Lab Control Sample Prep Type: Total/NA **Prep Batch: 189721**

LCS LCS Spike %Rec. **Analyte** Added Result Qualifier Unit %Rec Limits 83.3 **Diesel Range Organics** 71.3 mg/Kg 86 50 - 150

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits p-Terphenyl 40 - 130 96

Analysis Batch: 189728

Lab Sample ID: MB 720-189742/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA **Prep Batch: 189742**

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] $\overline{\mathsf{ND}}$ 1.0 mg/Kg 09/28/15 12:25 09/28/15 19:09

TestAmerica Pleasanton

Client: PES Environmental, Inc.

Project/Site: 39155 State St. Fremont

TestAmerica Job ID: 720-67532-1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-189742/1-A

Matrix: Solid

Analysis Batch: 189728

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

Prep Batch: 189742

Prep Type: Total/NA

Prep Batch: 189742

MB MB

MDL Unit Analyte Result Qualifier RL Prepared Analyzed Dil Fac Motor Oil Range Organics [C24-C36] $\overline{\mathsf{ND}}$ 50 mg/Kg 09/28/15 12:25 09/28/15 19:09

MB MB

Qualifier Limits Surrogate %Recovery Prepared Analyzed Dil Fac p-Terphenyl 107 40 - 130 09/28/15 12:25 09/28/15 19:09

Lab Sample ID: LCS 720-189742/2-A

Matrix: Solid

Diesel Range Organics

Analysis Batch: 189728

Spike

LCS LCS

Result Qualifier 83.2

Unit mg/Kg

%Rec 100

%Rec. Limits 50 - 150

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

[C10-C28]

Surrogate p-Terphenyl LCS LCS

%Recovery Qualifier

Limits 40 - 130

Added

83.3

Lab Sample ID: MB 720-189723/1-A

Matrix: Solid

Analysis Batch: 189793

Prep Type: Silica Gel Cleanup MB MB

Prep Batch: 189723

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Analyte Diesel Range Organics [C10-C28] 1.0 09/28/15 09:20 09/29/15 21:04 $\overline{\mathsf{ND}}$ mg/Kg Motor Oil Range Organics [C24-C36] ND 50 mg/Kg 09/28/15 09:20 09/29/15 21:04

MB MB

Surrogate Qualifier Dil Fac %Recovery Limits Prepared Analyzed 0.008 Capric Acid (Surr) 0 1 09/28/15 09:20 09/29/15 21:04 p-Terphenyl 106 38 - 148 09/28/15 09:20 09/29/15 21:04

LCS LCS

Lab Sample ID: LCS 720-189723/2-A

Matrix: Solid

Analysis Batch: 189793

Client Sample ID: Lab Control Sample Prep Type: Silica Gel Cleanup

Prep Batch: 189723

%Rec.

Added Result Qualifier Limits Analyte Unit D %Rec 83.3 56.6 68 36 - 112 Diesel Range Organics mg/Kg

Spike

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits p-Terphenyl 101 38 - 148

TestAmerica Pleasanton

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

GC/MS VOA

Analysis Batch: 189512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-67532-1	B44S-1.0-2.0	Total/NA	Solid	8260B/CA_LUFT MS	189526
720-67532-2	B44S-3.0-4.0	Total/NA	Solid	8260B/CA_LUFT MS	189526
720-67532-3	B45S-1.0-2.0	Total/NA	Solid	8260B/CA_LUFT MS	189526
720-67532-4	B45S-3.0-4.0	Total/NA	Solid	8260B/CA_LUFT MS	189526
720-67532-5	B46S-1.0-2.0	Total/NA	Solid	8260B/CA_LUFT MS	189526
720-67532-6	B46S-3.0-4.0	Total/NA	Solid	8260B/CA_LUFT MS	189526
720-67532-7	B47S-1.5-2.5	Total/NA	Solid	8260B/CA_LUFT MS	189526
720-67532-8	B47S-3.5-4.5	Total/NA	Solid	8260B/CA_LUFT MS	189526
720-67532-9	B50S-9.0-10.0	Total/NA	Solid	8260B/CA_LUFT MS	189526
LCS 720-189512/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-189512/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-189512/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-189512/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-189512/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 189526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-67532-1	B44S-1.0-2.0	Total/NA	Solid	5035	_
720-67532-2	B44S-3.0-4.0	Total/NA	Solid	5035	
720-67532-3	B45S-1.0-2.0	Total/NA	Solid	5035	
720-67532-4	B45S-3.0-4.0	Total/NA	Solid	5035	
720-67532-5	B46S-1.0-2.0	Total/NA	Solid	5035	
720-67532-6	B46S-3.0-4.0	Total/NA	Solid	5035	
720-67532-7	B47S-1.5-2.5	Total/NA	Solid	5035	
720-67532-8	B47S-3.5-4.5	Total/NA	Solid	5035	
720-67532-9	B50S-9.0-10.0	Total/NA	Solid	5035	

GC Semi VOA

Analysis Batch: 189720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-189721/2-A	Lab Control Sample	Total/NA	Solid	8015B	189721
MB 720-189721/1-A	Method Blank	Total/NA	Solid	8015B	189721

Prep Batch: 189721

Lab Sample ID 720-67532-1	Client Sample ID B44S-1.0-2.0	Prep Type Total/NA	Matrix Solid	Method 3546	Prep Batch
720-67532-2	B44S-3.0-4.0	Total/NA	Solid	3546	
720-67532-3	B45S-1.0-2.0	Total/NA	Solid	3546	
720-67532-4	B45S-3.0-4.0	Total/NA	Solid	3546	

TestAmerica Pleasanton

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Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

GC Semi VOA (Continued)

Prep Batch: 189721 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-67532-5	B46S-1.0-2.0	Total/NA	Solid	3546	
720-67532-6	B46S-3.0-4.0	Total/NA	Solid	3546	
LCS 720-189721/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-189721/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 189723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-67532-1	B44S-1.0-2.0	Silica Gel Cleanup	Solid	3546	
720-67532-2	B44S-3.0-4.0	Silica Gel Cleanup	Solid	3546	
720-67532-3	B45S-1.0-2.0	Silica Gel Cleanup	Solid	3546	
720-67532-4	B45S-3.0-4.0	Silica Gel Cleanup	Solid	3546	
720-67532-5	B46S-1.0-2.0	Silica Gel Cleanup	Solid	3546	
720-67532-6	B46S-3.0-4.0	Silica Gel Cleanup	Solid	3546	
720-67532-7	B47S-1.5-2.5	Silica Gel Cleanup	Solid	3546	
720-67532-8	B47S-3.5-4.5	Silica Gel Cleanup	Solid	3546	
720-67532-9	B50S-9.0-10.0	Silica Gel Cleanup	Solid	3546	
LCS 720-189723/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	3546	
MB 720-189723/1-A	Method Blank	Silica Gel Cleanup	Solid	3546	

Analysis Batch: 189728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-189742/2-A	Lab Control Sample	Total/NA	Solid	8015B	189742
MB 720-189742/1-A	Method Blank	Total/NA	Solid	8015B	189742

Prep Batch: 189742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-67532-7	B47S-1.5-2.5	Total/NA	Solid	3546	
720-67532-8	B47S-3.5-4.5	Total/NA	Solid	3546	
720-67532-9	B50S-9.0-10.0	Total/NA	Solid	3546	
LCS 720-189742/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-189742/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 189793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-67532-2	B44S-3.0-4.0	Silica Gel Cleanup	Solid	8015B	189723
720-67532-3	B45S-1.0-2.0	Silica Gel Cleanup	Solid	8015B	189723
720-67532-4	B45S-3.0-4.0	Silica Gel Cleanup	Solid	8015B	189723
720-67532-5	B46S-1.0-2.0	Silica Gel Cleanup	Solid	8015B	189723
720-67532-6	B46S-3.0-4.0	Silica Gel Cleanup	Solid	8015B	189723
720-67532-7	B47S-1.5-2.5	Total/NA	Solid	8015B	189742
720-67532-8	B47S-3.5-4.5	Silica Gel Cleanup	Solid	8015B	189723
720-67532-8	B47S-3.5-4.5	Total/NA	Solid	8015B	189742
720-67532-9	B50S-9.0-10.0	Total/NA	Solid	8015B	189742
LCS 720-189723/2-A	Lab Control Sample	Silica Gel Cleanup	Solid	8015B	189723
MB 720-189723/1-A	Method Blank	Silica Gel Cleanup	Solid	8015B	189723

Analysis Batch: 189794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-67532-1	B44S-1.0-2.0	Silica Gel Cleanup	Solid	8015B	189723
720-67532-1	B44S-1.0-2.0	Total/NA	Solid	8015B	189721
720-67532-2	B44S-3.0-4.0	Total/NA	Solid	8015B	189721

QC Association Summary

Client: PES Environmental, Inc.
Project/Site: 39155 State St. Fremont

TestAmerica Job ID: 720-67532-1

GC Semi VOA (Continued)

Analysis Batch: 189794 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-67532-3	B45S-1.0-2.0	Total/NA	Solid	8015B	189721
720-67532-4	B45S-3.0-4.0	Total/NA	Solid	8015B	189721
720-67532-5	B46S-1.0-2.0	Total/NA	Solid	8015B	189721
720-67532-6	B46S-3.0-4.0	Total/NA	Solid	8015B	189721
720-67532-7	B47S-1.5-2.5	Silica Gel Cleanup	Solid	8015B	189723
720-67532-9	B50S-9.0-10.0	Silica Gel Cleanup	Solid	8015B	189723

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Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Client Sample ID: B44S-1.0-2.0 Lab Sample ID: 720-67532-1

Date Collected: 09/21/15 16:00 **Matrix: Solid** Date Received: 09/22/15 16:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			189526	09/22/15 19:20	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	189512	09/23/15 22:51	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			189723	09/28/15 09:20	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	189794	09/29/15 23:55	JXL	TAL PLS
Total/NA	Prep	3546			189721	09/28/15 09:13	DFR	TAL PLS
Total/NA	Analysis	8015B		20	189794	09/29/15 21:04	JXL	TAL PLS

Client Sample ID: B44S-3.0-4.0 Lab Sample ID: 720-67532-2

Date Collected: 09/21/15 16:10 **Matrix: Solid**

Date Received: 09/22/15 16:00

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			189526	09/22/15 19:20	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	189512	09/23/15 23:21	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			189723	09/28/15 09:20	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	189793	09/29/15 17:03	JXL	TAL PLS
Total/NA	Prep	3546			189721	09/28/15 09:13	DFR	TAL PLS
Total/NA	Analysis	8015B		1	189794	09/29/15 21:29	JXL	TAL PLS

Client Sample ID: B45S-1.0-2.0 Lab Sample ID: 720-67532-3

Date Collected: 09/21/15 16:40 **Matrix: Solid**

Date Received: 09/22/15 16:00

Prep Type Total/NA	Batch Type Prep	Batch Method 5035	Run	Dilution Factor		Prepared or Analyzed 09/22/15 19:20	 Lab TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1		09/23/15 23:50	 TAL PLS
Silica Gel Cleanup Silica Gel Cleanup	Prep Analysis	3546 8015B		1		09/28/15 09:20 09/29/15 17:52	 TAL PLS TAL PLS
Total/NA Total/NA	Prep Analysis	3546 8015B		1	189721 189794	09/28/15 09:13 09/29/15 21:53	 TAL PLS TAL PLS

Client Sample ID: B45S-3.0-4.0 Lab Sample ID: 720-67532-4

Matrix: Solid Date Collected: 09/21/15 16:50 Date Received: 09/22/15 16:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			189526	09/22/15 19:20	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	189512	09/24/15 00:20	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			189723	09/28/15 09:20	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	189793	09/29/15 16:39	JXL	TAL PLS
Total/NA	Prep	3546			189721	09/28/15 09:13	DFR	TAL PLS
Total/NA	Analysis	8015B		1	189794	09/29/15 22:18	JXL	TAL PLS

TestAmerica Pleasanton

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Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

Client Sample ID: B46S-1.0-2.0

Date Collected: 09/21/15 17:05 Date Received: 09/22/15 16:00

Lab Sample ID: 720-67532-5

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			189526	09/22/15 19:20	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	189512	09/24/15 00:49	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			189723	09/28/15 09:20	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	189793	09/29/15 18:16	JXL	TAL PLS
Total/NA	Prep	3546			189721	09/28/15 09:13	DFR	TAL PLS
Total/NA	Analysis	8015B		1	189794	09/29/15 22:42	JXL	TAL PLS

Client Sample ID: B46S-3.0-4.0 Lab Sample ID: 720-67532-6

Date Collected: 09/21/15 17:15

Date Received: 09/22/15 16:00

Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			189526	09/22/15 19:20	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	189512	09/24/15 01:20	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			189723	09/28/15 09:20	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	189793	09/29/15 17:28	JXL	TAL PLS
Total/NA	Prep	3546			189721	09/28/15 09:13	DFR	TAL PLS
Total/NA	Analysis	8015B		1	189794	09/29/15 23:06	JXL	TAL PLS

Client Sample ID: B47S-1.5-2.5 Lab Sample ID: 720-67532-7

Date Collected: 09/21/15 17:35 **Matrix: Solid** Date Received: 09/22/15 16:00

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			189526	09/22/15 19:20	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	189512	09/24/15 01:49	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			189723	09/28/15 09:20	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		10	189794	09/30/15 00:19	JXL	TAL PLS
Total/NA	Prep	3546			189742	09/28/15 14:52	NVP	TAL PLS
Total/NA	Analysis	8015B		20	189793	09/29/15 22:18	JXL	TAL PLS

Lab Sample ID: 720-67532-8 **Client Sample ID: B47S-3.5-4.5**

Date Collected: 09/21/15 17:45 Date Received: 09/22/15 16:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			189526	09/22/15 19:20	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	189512	09/24/15 02:20	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			189723	09/28/15 09:20	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	189793	09/29/15 18:40	JXL	TAL PLS
Total/NA	Prep	3546			189742	09/28/15 14:52	NVP	TAL PLS
Total/NA	Analysis	8015B		1	189793	09/29/15 21:53	JXL	TAL PLS

TestAmerica Pleasanton

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9/30/2015

Matrix: Solid

Lab Chronicle

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont TestAmerica Job ID: 720-67532-1

Lab Sample ID: 720-67532-9

Matrix: Solid

Client Sample ID: B50S-9.0-10.0

Date Collected: 09/21/15 18:00 Date Received: 09/22/15 16:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			189526	09/22/15 19:20	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	189512	09/24/15 02:51	PRD	TAL PLS
Silica Gel Cleanup	Prep	3546			189723	09/28/15 09:20	NVP	TAL PLS
Silica Gel Cleanup	Analysis	8015B		1	189794	09/29/15 16:39	JXL	TAL PLS
Total/NA	Prep	3546			189742	09/28/15 14:52	NVP	TAL PLS
Total/NA	Analysis	8015B		1	189793	09/29/15 21:29	JXL	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Certification Summary

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont

TestAmerica Job ID: 720-67532-1

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

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Method Summary

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont TestAmerica Job ID: 720-67532-1

Method	Method Description	Protocol	Laboratory
8260B/CA_LUFTM	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Sample Summary

Client: PES Environmental, Inc. Project/Site: 39155 State St. Fremont TestAmerica Job ID: 720-67532-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
720-67532-1	B44S-1.0-2.0	Solid	09/21/15 16:00	09/22/15 16:00	
720-67532-2	B44S-3.0-4.0	Solid	09/21/15 16:10	09/22/15 16:00	
720-67532-3	B45S-1.0-2.0	Solid	09/21/15 16:40	09/22/15 16:00	
720-67532-4	B45S-3.0-4.0	Solid	09/21/15 16:50	09/22/15 16:00	
720-67532-5	B46S-1.0-2.0	Solid	09/21/15 17:05	09/22/15 16:00	
720-67532-6	B46S-3.0-4.0	Solid	09/21/15 17:15	09/22/15 16:00	
720-67532-7	B47S-1.5-2.5	Solid	09/21/15 17:35	09/22/15 16:00	
720-67532-8	B47S-3.5-4.5	Solid	09/21/15 17:45	09/22/15 16:00	
720-67532-9	B50S-9.0-10.0	Solid	09/21/15 18:00	09/22/15 16:00	

X 3 5 B 4 76-1, 5-25	2 1 2
111111745 B475-3.5-4.5 X	2 1 2
[
	720-67532 Chain of Custody
NOTES	CHAIN OF CUSTODY RECORD
Turn Around Time: Standard TAT	RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) DATE TIME Pulls 12
(x) = w/ silica gel clean-up Luse 1 of	RELINQUISHED BY: (Signature) 9.22 - IS (RECEIVED BY: (Signature) 122/5/60
the 2 infreserved samples)	RELINOUISHED BY: (Signature) RECEIVED BY: (Signature)
O = Wout Silica gel cleanup (use remaining unpreserved sample)	RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) DATE TIME
remaining unpreserved sample)	DISPATCHED BY: (Signature) DATE TIME RECEIVED FOR LAB BY: (Signature) DATE TIME
	METHOD OF SHIPMENT:
Page of	1 11 11

Client: PES Environmental, Inc.

Job Number: 720-67532-1

Login Number: 67532 List Source: TestAmerica Pleasanton

List Number: 1

Creator: Gonzales, Justinn

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

TestAmerica Pleasanton

TEG



29 September 2015

Mr. Justin Patterson PES Environmental, Inc. 1682 Novato Blvd., Suite 100 Novato, CA 94947

SUBJECT: DATA REPORT - PES Environmental, Inc. Project # 220.003.02.001 39155 State Street, Fremont, California

TEG Project # 50921F

Mr. Patterson:

Please find enclosed a data report for the samples analyzed from the above referenced project for PES Environmental. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 16 analyses on 11 soil vapor samples.

- -- 11 analyses on soil vapors for selected volatile organic hydrocarbons by EPA method 8260B.
- -- 5 analyses on soil vapors for oxygen by GC/TCD.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and calibration data are included in the tables.

TEG appreciates the opportunity to have provided analytical services to PES Environmental on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak

Director, TEG-Northern California



TEG Project #50921F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER	<i>:</i>	Probe Blank	B41	B42	B43	B44-5	B45
SAMPLE DEPTH (feet):			5.0	5.0	5.0	5.0	5.0
PURGE VOLU M E	:		3	3	3	1	3 9/21/15 14:10
COLLECTION DATE	:	9/21/15	9/21/15	9/21/15 12:44	9/21/15	9/21/15 13:45	
COLLECTION TIME	:	10:35	11:59		12:47		
DILUTION FACTOR	: RL	1	1	1	1	1	1
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	2700
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	240
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd
Benzene	80	nd	nd	nd	nd	nd	88
Trichloroethene	100	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd
Tetrachloroethene	100	nd	nd	nd	nd	nd	nd
Ethylbenzene	100	nd	280	110	120	nd	130
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	1200	410	420	nd	270
o-Xylene	100	nd	340	nd	100	nd	140
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM) Surrogate Recovery (1,2-DCA-d4) Surrogate Recovery (1,4-BFB)		82% 87% 93%	87% 92% 99%	84% 89% 97%	85% 104% 93%	88% 95% 94%	83% 94% 101%

'RL' Indicates reporting limit at a dilution factor of 1 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Ms. Stephanie Clark

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TEG Project #50921F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		B46	B47	B48-13	B48-13	B49-13	B50-10
SAMPLE DEPTH (feet):		5.0	5.0	13.0	dup 13.0	13.0	10.0
PURGE VOLUME:	3	3	3	3	3	3	
COLLECTION DATE:		9/21/15	9/21/15	9/21/15	9/21/15	9/21/15	3 9/21/15
COLLECTION TIME:		15:07	15:39	16:46	16:46	17:30	17:51
DILUTION FACTOR:		1	1	1	1	1	1
Dichlorodifluoromethane	100	1000	330	1000	1200	3200	420
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	1400	200	nd	130	460	690
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd
Benzene	80	91	710	nd	nd	nd	nd
Trichloroethene	100	nd	nd	nd	nd	nd	nd
Toluene	200	nd	400	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd
Tetrachloroethene	100	nd	nd	150	200	nd	nd
Ethylbenzene	100	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	260	nd	nd	nd	nd
o-Xylene	100	nd	100	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM) Surrogate Recovery (1,2-DCA-d4) Surrogate Recovery (1,4-BFB)		84% 97% 93%	90% 98% 93%	91% 98% 96%	87% 101% 99%	84% 97% 91%	81% 97% 92%

'RL' Indicates reporting limit at a dilution factor of 1 'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Ms. Stephanie Clark

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TEG Project #50921F

Analyses of SOIL VAPOR

Oxygen in percent by Volume

SAMPLE	SAMPLE	PURGE	COLLECTION	COLLECTION	Oxygen
NUMBER	DEPTH	VOLUME	DATE	TIME	
	(feet)				%
Probe Blank			9/21/15	10:35	21
B44-5	5.0	3	9/21/15	13:45	21
B45	5.0	3	9/21/15	14:10	21
B46	5.0	3	9/21/15	15:07	14
B47	5.0	3	9/21/15	15:39	15
B50-10	10.0	3	9/21/15	17:51	21

'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab Analyses performed by: Ms. Stephanie Clark Reporting Limit:

1.0



TEG Project #50921F

CALIBRATION DATA - Daily Calibration Check Compounds (GC/MS)

	Vinyl Chloride	1,1 DCE	Chloroform	1,2 DCP	Toluene	Ethylbenzene
Midpoint	10.0	10.0	10.0	10.0	10.0	10.0
Continuing Cali	bration - Midpoint					
9/21/15	9.1	10.0	9.2	9.3	9.3	9.1
	91%	100%	92%	93%	93%	91%