



December 2, 2014

1098.007.01.001

A Report Prepared for:

Regis Homes Bay Area, LLC
Attention: Mr. Dave Hopkins
901 Mariners Island Boulevard, #700
San Mateo, California 94404

For Submittal to Oversight Agency:

Alameda County Water District
43885 South Grimmer Blvd.
P.O. Box 5110
Fremont, California 94537-5110

Received by: _____

Date: _____

**Subject: Work Plan for Supplemental Site Investigation
39155 and 39183 State Street
Fremont, California**

Dear Mr. Hopkins:

This *Work Plan for Supplemental Site Investigation* (Work Plan) has been prepared by PES Environmental, Inc. (PES) on behalf of Regis Homes Bay Area, LLC (REGIS) for the currently vacant properties at 39155 and 39183 State Street in Fremont, California (the site or subject property). The site location is shown on Plate 1, and the subject property and vicinity are shown on Plate 2. PES understands that REGIS is considering acquisition of the site from the current owner, the City of Fremont, and plans to redevelop the property with commercial buildings with subsurface parking along the northwestern portion of the site, and slab-on-grade residential buildings to the southeast.

PES recently prepared a work plan for a site investigation that was submitted to the Alameda County Water District (ACWD) on September 26, 2014¹. ACWD approved the work plan, and PES conducted an initial soil and soil gas sampling investigation in October 2014. The objective of the investigation was to evaluate the chemical characteristics of the soil, soil vapor, and groundwater beneath the site to assess if they have been impacted by prior site usage or potential offsite sources of contamination. The approximate location of soil and soil vapor boring locations are shown on Plate 2. A summary of the analytical results for the soil and soil vapor samples are summarized in Tables 1 through 3. Laboratory analytical reports and chain-of-custody forms are included in the attachments. The soil vapor results on Tables 1 were compared were compared to the Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) environmental screening levels (ESLs) for soil gas in a residential/commercial setting. The soil results presented on Table 2 and Table 3 were compared to RWQCB risk-based ESLs for shallow soil (at depths less than 3 meters, or 9.84 feet) in a

¹ PES Environmental, Inc. (PES), 2014. *Work Plan for Limited Site Investigation, 39155 and 39183 State Street, Fremont, California*. September 26.

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residential and/or commercial setting where groundwater is a current or potential drinking water source. The soil results presented on Table 2 were also compared to Total Threshold Limit Concentration (TTLC) values and background concentrations. The ESLs were developed by the RWQCB to be protective of human health and the environment for potentially complete exposure pathways.

Shallow soil vapor samples detected elevated concentrations of benzene and tetrachloroethylene (PCE) above their respective ESLs. Soil samples identified elevated concentrations of the organochlorine pesticides endrin and dieldrin in 6 out of 16 samples. Groundwater samples could not be collected due to drill rig limitations.

PROPOSED SCOPE OF WORK

The scope of work for the investigation includes the following activities: (1) field preparation tasks; (2) collection and analysis of soil vapor samples; and (3) submittal of laboratory analytical reports.

Field Preparation Activities

The following activities will be performed prior to the commencement of field sampling activities:

- Update as necessary the Site-specific Health and Safety Plan in accordance with applicable occupational safety and health requirements;
- Obtain drilling permits from Alameda County Water District (ACWD);
- Contact Underground Services Alert for public utility clearance;
- Retain and schedule drilling and laboratory subcontractors; and
- Perform utility clearances at sampling locations.

Field Investigation

Borehole drilling and sampling services will be provided by a licensed contractor possessing a valid C-57 water well contractor's license issued by the State of California, and in accordance with California Department of Water Resource Water Well Standards (Bulletin 74-90). All subsurface investigation work will be conducted under the supervision of a California-registered geologist or engineer.

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Soil cuttings and decontamination fluids will be temporarily stored on-site pending characterization and proper off-site disposal. Upon completion of sampling activities, each borehole will be grouted to the surface using neat cement under the oversight of ACWD staff. A tremmie pipe will be utilized in deeper borings.

Soil vapor sampling procedures will be consistent with the most current guidance document: *Advisory - Active Soil Gas Investigations*, 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 April 2012. (Cal EPA, 2012). Prior to sampling, PES will verify that no significant rainfall event (of greater than 0.5 inches, as described in the *Advisory*) had occurred within a five-day period of the soil vapor sampling event.

The soil vapor sampling locations are shown on Plate 2. An additional three (3) soil gas samples will be collected at depths of 10 feet below ground surface (bgs) at locations where elevated concentrations of VOCs were detected previously (B4, B5, and B16). Eight (8) soil gas samples will be collected at depths of 5 feet bgs in the vicinity of those samples and within the areas of planned residential construction. Sampling and handling procedures will be conducted in accordance with the prior work plan.

Soil vapor will be obtained using a Geoprobe-type sampling device outfitted for soil vapor sample collection. Soil vapor samples will be collected by installing a 1-inch diameter, hollow, stainless-steel soil vapor probe to the required sampling depth. The probes will be equipped with a hardened, reverse-threaded steel tip. The probe will be driven using the hydraulic direct-push rig. A hydrated bentonite seal will be 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 will be inserted down the center of the probe and threaded onto the sampling port. The probe will be 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, a two-hour equilibration period will be allowed prior to conducting the respective purge volume test and soil vapor sampling.

Leak testing will be 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 will be performed using 2-propanol applied to a towel which will be fitted around the probe at the surface while purging.

After reaching the specified sampling depth and installing the soil gas sampling equipment as described above, soil vapor will be 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

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of the exposed portion of the soil gas probes will be calculated. Samples will be collected with the same purge volume established during the prior soil vapor analysis.

Soil Vapor Analyses

Soil vapor samples will be analyzed by an on-site mobile laboratory (California-certified for the specified analyses) for VOCs by U.S. Environmental Protection Agency (U.S. EPA) Test Method 8260B.

REPORTING AND SCHEDULE

As required by ACWD, copies of the final laboratory analytical reports will be transmitted to ACWD within 30 days of receipt.

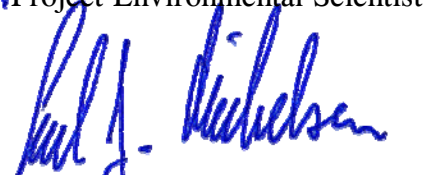
We trust that this is the information you require at this time. Please call either of the undersigned if you have any questions.

Yours very truly,

PES ENVIRONMENTAL, INC.



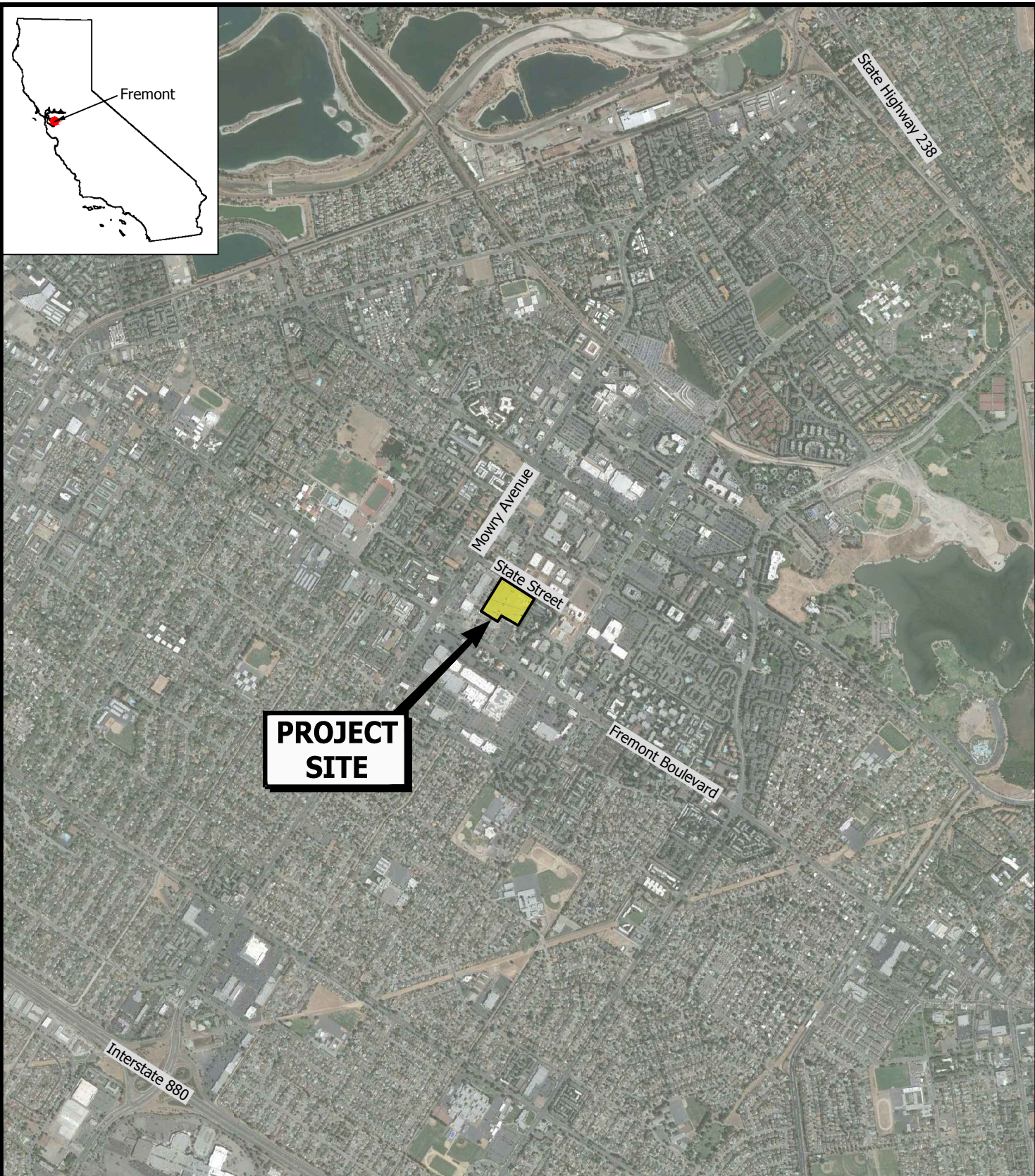
Justin J. Patterson
Project Environmental Scientist



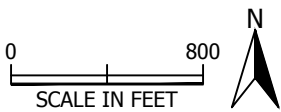
Carl J. Michelsen, P.G., C.HG.
Principal Geochemist

Attachments: Plate 1 – Site Location
Plate 2 – Site Plan and Proposed Boring Locations
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
Laboratory Analytical Reports (On CD-ROM)

ATTACHMENTS



**PROJECT
SITE**



Aerial Photo: August 28, 2012 (Google 2014)



PES Environmental, Inc.
Engineering & Environmental Services

Site Location
39155 and 39183 State Street
Fremont, California

PLATE
1

**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/m ³)	Benzene (µg/m ³)	Toluene (µg/m ³)	Ethylbenzene (µg/m ³)	m,p-Xylene (µg/m ³)	o-Xylene (µg/m ³)	Freon 11 (µg/m ³)	Freon 12 (µg/m ³)	Chloroform (µg/m ³)
B1	10/28/2014	B1-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	< 100	< 100
B2	10/28/2014	B2-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	120	1900	< 100
B4	10/27/2014	B4-SV	5.0	1	< 100	320	1800	< 100	360	140	< 100	1700	160
				3	< 100	480	1500	160	520	190	< 100	2300	160
				5	< 100	510	780	230	690	260	< 100	2100	< 100
B5	10/27/2014	B5-SV	5.0	3	300	< 80	< 200	< 100	< 200	< 100	< 100	1000	< 100
B6	10/28/2014	B6-SV	5.0	3	< 100	97	< 200	< 100	< 200	< 100	< 100	240	< 100
B8	10/27/2014	B8-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	1600	6400	< 100
B9	10/28/2014	B9-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	110	< 100	< 100
B10	10/28/2014	B10-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	370	1400	< 100
B11	10/28/2014	B11-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	410	< 100
B12	10/28/2014	B12-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	1100	4100	< 100
B14	10/28/2014	B14-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	390	< 100
B15	10/28/2014	B15-SV	5.0	3	< 100	< 80	< 200	< 100	420	150	< 100	1800	< 100
B16	10/28/2014	B16-SV	5.0	3	550	< 80	< 200	< 100	< 200	< 100	160	2300	< 100
B17	10/28/2014	B17-SV	5.0	3	< 100	< 80	< 200	220	1100	350	460	1900	< 100
B18	10/28/2014	B18-SV	5.0	3	< 100	< 80	< 200	< 100	< 200	< 100	< 100	210	< 100
Residential land use ESL ⁽¹⁾					210	42	160,000	490	52,000	52,000	NE	NE	230
Commercial/Industrial land use ESL ⁽²⁾					2,100	420	1,300,000	4,900	440,000	440,000	NE	NE	2,300

Notes:

Detections are shown in bold.

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

feet bgs: feet below ground surface.

µg/m³: micrograms per cubic meter.

PCE: Tetrachloroethene.

Freon 11: Trichlorofluoromethane.

Freon 12: Dichlorodifluoromethane.

< 100: not detected at or above the indicated laboratory reporting limit.

1. 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.

2. ESL = December 2013 SFRWQCB ESLs, Table E-2 Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion, Commercial/Industrial Land Use.

NE: Not established.

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

Sample Location	Sample Identification	Sample Depth (Feet bgs)	Date Collected	Metals			Pesticides					
				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
	B1-3.0-4.0	3.0-4.0	10/27/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3	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
	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
	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
	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
	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
	B8-3.0-4.0	3.0-4.0	10/28/2014	NA	NA	< 8.5	< 8.5	260 #	19 #	9.3 #	< 1.7	< 1.7
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
	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	< 1.7	< 1.7	< 1.7
	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	< 1.7	< 1.7	< 8.5
	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
	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⁾				0.39	80	0.65	2,400	1,700	1,700	2.3	14	440
Commercial/Industrial land use ESL ⁽²⁾				0.96	320	0.65	6,000	4,000	4,000	2.3	14	950
Residential land use Human Health ESL ⁽³⁾				0.39	80	23,000	2,400	1,700	1,700	34	61	440
Commercial/Industrial land use Human Health ESL ⁽⁴⁾				0.96	320	23,000	6,000	4,200	4,200	67	240	950
Background 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.

< 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

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

Sample Location	Sample Identification	Sample Depth (Feet bgs)	Date Collected	VOCs
				Acetone (µg/Kg)
B1	B1-1.0-2.0	1.0-2.0	10/27/2014	< 16
	B1-3.0-4.0	3.0-4.0	10/27/2014	NA
B3	B3-1.0-2.0	1.0-2.0	10/27/2014	14
	B3-3.0-4.0	3.0-4.0	10/27/2014	NA
B5	B5-1.0-2.0	1.0-2.0	10/27/2014	< 14
	B5-3.0-4.0	3.0-4.0	10/27/2014	< 18
B6	B6-1.0-2.1	1.0-2.0	10/28/2014	< 16
	B6-3.0-4.1	3.0-4.0	10/28/2014	< 13
B7	B7-1.0-2.2	1.0-2.0	10/28/2014	< 13
	B7-3.0-4.2	3.0-4.0	10/28/2014	NA
B8	B8-1.0-2.3	1.0-2.0	10/28/2014	< 15
	B8-3.0-4.3	3.0-4.0	10/28/2014	NA
B11	B11-1.0-2.0	1.0-2.0	10/29/2014	< 14
	B11-3.0-4.0	3.0-4.0	10/29/2014	NA
B12	B12-1.0-2.0	1.0-2.0	10/29/2014	< 14
	B12-3.0-4.0	3.0-4.0	10/29/2014	NA
B13	B13-1.0-2.0	1.0-2.0	10/29/2014	< 18
	B13-3.0-4.0	3.0-4.0	10/29/2014	NA
B16	B16-1.0-2.0	1.0-2.0	10/29/2014	< 15
	B16-3.0-4.0	3.0-4.0	10/29/2014	< 16
Residential land use ESL ⁽¹⁾				500
Commercial/Industrial land use ESL ⁽²⁾				500

Notes:**Detections are shown in bold.**

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

Feet bgs: Feet below ground surface.

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.

- 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.
- 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.



Curtis & Tompkins, Ltd.

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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 262033
ANALYTICAL REPORT

PES Environmental, Inc. 1682 Novato Boulevard Novato, CA 94947	Project : 1098.007.01.001 Location : 39155 & 39183 State St., Fremont Level : II
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<u>Sample ID</u>	<u>Lab ID</u>
B1-1.0-2.0	262033-001
B1-3.0-4.0	262033-002
B3-1.0-2.0	262033-003
B3-3.0-4.0	262033-004
B5-1.0-2.0	262033-005
B5-3.0-4.0	262033-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Will S Rice
Project Manager
will.rice@ctberk.com

Date: 11/04/2014

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number: 262033
Client: PES Environmental, Inc.
Project: 1098.007.01.001
Location: 39155 & 39183 State St., Fremont
Request Date: 10/27/14
Samples Received: 10/27/14

This data package contains sample and QC results for four soil samples, requested for the above referenced project on 10/27/14. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes were not performed for this analysis in batch 216939 due to insufficient sample amount. No other analytical problems were encountered.

Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. All samples underwent florisil cleanup using EPA Method 3620C. No analytical problems were encountered.

Metals (EPA 6010B):

Lead was detected above the RL in the method blank for batch 216863; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Login # 262033 Date Received 10/27/14 Number of coolers 1
 Client DES Project 1098-007-01-001

Date Opened 10/27 By (print) [Signature] (sign) [Signature]
 Date Logged in 10/27 By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
- Shipping info _____
- 2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____
- 2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO
6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C
 Type of ice used: Wet Blue/Gel None Temp(°C) _____
 Samples Received on ice & cold without a temperature blank; temp. taken with IR gun
 Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? 1950
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are there any missing / extra samples? _____ YES NO
11. Are samples in the appropriate containers for indicated tests? _____ YES NO
12. Are sample labels present, in good condition and complete? _____ YES NO
13. Do the sample labels agree with custody papers? _____ YES NO
14. Was sufficient amount of sample sent for tests requested? _____ YES NO
15. Are the samples appropriately preserved? _____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A
17. Did you document your preservative check? _____ YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Detections Summary for 262033

Results for any subcontracted analyses are not included in this summary.

Client : PES Environmental, Inc.
 Project : 1098.007.01.001
 Location : 39155 & 39183 State St., Fremont

Client Sample ID : B1-1.0-2.0 Laboratory Sample ID : 262033-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Arsenic	5.3		0.23	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	5.1		0.23	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

Client Sample ID : B3-1.0-2.0 Laboratory Sample ID : 262033-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Acetone	14		13	ug/Kg	As Recd	0.6640	EPA 8260B	EPA 5035
4,4'-DDE	650		33	ug/Kg	As Recd	10.00	EPA 8081A	EPA 3550B
Endrin	24	C	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDD	94	#	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDT	22		3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
alpha-Chlordane	7.0		1.7	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
Arsenic	5.8		0.24	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	8.9		0.24	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

Client Sample ID : B5-1.0-2.0 Laboratory Sample ID : 262033-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Arsenic	5.3		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	5.3		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

Client Sample ID : B5-3.0-4.0 Laboratory Sample ID : 262033-006

No Detections

= CCV drift outside limits; average CCV drift within limits per method requirement
 C = Presence confirmed, but RPD between columns exceeds 40%

Purgeable Organics by GC/MS

Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B1-1.0-2.0	Diln Fac:	0.7764
Lab ID:	262033-001	Batch#:	216939
Matrix:	Soil	Sampled:	10/27/14
Units:	ug/Kg	Received:	10/27/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Freon 12	ND	7.8
Chloromethane	ND	7.8
Vinyl Chloride	ND	7.8
Bromomethane	ND	7.8
Chloroethane	ND	7.8
Trichlorofluoromethane	ND	3.9
Acetone	ND	16
Freon 113	ND	3.9
1,1-Dichloroethene	ND	3.9
Methylene Chloride	ND	16
Carbon Disulfide	ND	3.9
MTBE	ND	3.9
trans-1,2-Dichloroethene	ND	3.9
Vinyl Acetate	ND	39
1,1-Dichloroethane	ND	3.9
2-Butanone	ND	7.8
cis-1,2-Dichloroethene	ND	3.9
2,2-Dichloropropane	ND	3.9
Chloroform	ND	3.9
Bromochloromethane	ND	3.9
1,1,1-Trichloroethane	ND	3.9
1,1-Dichloropropene	ND	3.9
Carbon Tetrachloride	ND	3.9
1,2-Dichloroethane	ND	3.9
Benzene	ND	3.9
Trichloroethene	ND	3.9
1,2-Dichloropropane	ND	3.9
Bromodichloromethane	ND	3.9
Dibromomethane	ND	3.9
4-Methyl-2-Pentanone	ND	7.8
cis-1,3-Dichloropropene	ND	3.9
Toluene	ND	3.9
trans-1,3-Dichloropropene	ND	3.9
1,1,2-Trichloroethane	ND	3.9
2-Hexanone	ND	7.8
1,3-Dichloropropane	ND	3.9
Tetrachloroethene	ND	3.9

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B1-1.0-2.0	Diln Fac:	0.7764
Lab ID:	262033-001	Batch#:	216939
Matrix:	Soil	Sampled:	10/27/14
Units:	ug/Kg	Received:	10/27/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Dibromochloromethane	ND	3.9
1,2-Dibromoethane	ND	3.9
Chlorobenzene	ND	3.9
1,1,1,2-Tetrachloroethane	ND	3.9
Ethylbenzene	ND	3.9
m,p-Xylenes	ND	3.9
o-Xylene	ND	3.9
Styrene	ND	3.9
Bromoform	ND	3.9
Isopropylbenzene	ND	3.9
1,1,2,2-Tetrachloroethane	ND	3.9
1,2,3-Trichloropropane	ND	3.9
Propylbenzene	ND	3.9
Bromobenzene	ND	3.9
1,3,5-Trimethylbenzene	ND	3.9
2-Chlorotoluene	ND	3.9
4-Chlorotoluene	ND	3.9
tert-Butylbenzene	ND	3.9
1,2,4-Trimethylbenzene	ND	3.9
sec-Butylbenzene	ND	3.9
para-Isopropyl Toluene	ND	3.9
1,3-Dichlorobenzene	ND	3.9
1,4-Dichlorobenzene	ND	3.9
n-Butylbenzene	ND	3.9
1,2-Dichlorobenzene	ND	3.9
1,2-Dibromo-3-Chloropropane	ND	3.9
1,2,4-Trichlorobenzene	ND	3.9
Hexachlorobutadiene	ND	3.9
Naphthalene	ND	3.9
1,2,3-Trichlorobenzene	ND	3.9

Surrogate	%REC	Limits
Dibromofluoromethane	111	76-128
1,2-Dichloroethane-d4	105	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	90	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B3-1.0-2.0	Diln Fac:	0.6640
Lab ID:	262033-003	Batch#:	216939
Matrix:	Soil	Sampled:	10/27/14
Units:	ug/Kg	Received:	10/27/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Freon 12	ND	6.6
Chloromethane	ND	6.6
Vinyl Chloride	ND	6.6
Bromomethane	ND	6.6
Chloroethane	ND	6.6
Trichlorofluoromethane	ND	3.3
Acetone	14	13
Freon 113	ND	3.3
1,1-Dichloroethene	ND	3.3
Methylene Chloride	ND	13
Carbon Disulfide	ND	3.3
MTBE	ND	3.3
trans-1,2-Dichloroethene	ND	3.3
Vinyl Acetate	ND	33
1,1-Dichloroethane	ND	3.3
2-Butanone	ND	6.6
cis-1,2-Dichloroethene	ND	3.3
2,2-Dichloropropane	ND	3.3
Chloroform	ND	3.3
Bromochloromethane	ND	3.3
1,1,1-Trichloroethane	ND	3.3
1,1-Dichloropropene	ND	3.3
Carbon Tetrachloride	ND	3.3
1,2-Dichloroethane	ND	3.3
Benzene	ND	3.3
Trichloroethene	ND	3.3
1,2-Dichloropropane	ND	3.3
Bromodichloromethane	ND	3.3
Dibromomethane	ND	3.3
4-Methyl-2-Pentanone	ND	6.6
cis-1,3-Dichloropropene	ND	3.3
Toluene	ND	3.3
trans-1,3-Dichloropropene	ND	3.3
1,1,2-Trichloroethane	ND	3.3
2-Hexanone	ND	6.6
1,3-Dichloropropane	ND	3.3
Tetrachloroethene	ND	3.3

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B3-1.0-2.0	Diln Fac:	0.6640
Lab ID:	262033-003	Batch#:	216939
Matrix:	Soil	Sampled:	10/27/14
Units:	ug/Kg	Received:	10/27/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Dibromochloromethane	ND	3.3
1,2-Dibromoethane	ND	3.3
Chlorobenzene	ND	3.3
1,1,1,2-Tetrachloroethane	ND	3.3
Ethylbenzene	ND	3.3
m,p-Xylenes	ND	3.3
o-Xylene	ND	3.3
Styrene	ND	3.3
Bromoform	ND	3.3
Isopropylbenzene	ND	3.3
1,1,2,2-Tetrachloroethane	ND	3.3
1,2,3-Trichloropropane	ND	3.3
Propylbenzene	ND	3.3
Bromobenzene	ND	3.3
1,3,5-Trimethylbenzene	ND	3.3
2-Chlorotoluene	ND	3.3
4-Chlorotoluene	ND	3.3
tert-Butylbenzene	ND	3.3
1,2,4-Trimethylbenzene	ND	3.3
sec-Butylbenzene	ND	3.3
para-Isopropyl Toluene	ND	3.3
1,3-Dichlorobenzene	ND	3.3
1,4-Dichlorobenzene	ND	3.3
n-Butylbenzene	ND	3.3
1,2-Dichlorobenzene	ND	3.3
1,2-Dibromo-3-Chloropropane	ND	3.3
1,2,4-Trichlorobenzene	ND	3.3
Hexachlorobutadiene	ND	3.3
Naphthalene	ND	3.3
1,2,3-Trichlorobenzene	ND	3.3

Surrogate	%REC	Limits
Dibromofluoromethane	113	76-128
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	91	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B5-1.0-2.0	Diln Fac:	0.7143
Lab ID:	262033-005	Batch#:	216939
Matrix:	Soil	Sampled:	10/27/14
Units:	ug/Kg	Received:	10/27/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Freon 12	ND	7.1
Chloromethane	ND	7.1
Vinyl Chloride	ND	7.1
Bromomethane	ND	7.1
Chloroethane	ND	7.1
Trichlorofluoromethane	ND	3.6
Acetone	ND	14
Freon 113	ND	3.6
1,1-Dichloroethene	ND	3.6
Methylene Chloride	ND	14
Carbon Disulfide	ND	3.6
MTBE	ND	3.6
trans-1,2-Dichloroethene	ND	3.6
Vinyl Acetate	ND	36
1,1-Dichloroethane	ND	3.6
2-Butanone	ND	7.1
cis-1,2-Dichloroethene	ND	3.6
2,2-Dichloropropane	ND	3.6
Chloroform	ND	3.6
Bromochloromethane	ND	3.6
1,1,1-Trichloroethane	ND	3.6
1,1-Dichloropropene	ND	3.6
Carbon Tetrachloride	ND	3.6
1,2-Dichloroethane	ND	3.6
Benzene	ND	3.6
Trichloroethene	ND	3.6
1,2-Dichloropropane	ND	3.6
Bromodichloromethane	ND	3.6
Dibromomethane	ND	3.6
4-Methyl-2-Pentanone	ND	7.1
cis-1,3-Dichloropropene	ND	3.6
Toluene	ND	3.6
trans-1,3-Dichloropropene	ND	3.6
1,1,2-Trichloroethane	ND	3.6
2-Hexanone	ND	7.1
1,3-Dichloropropane	ND	3.6
Tetrachloroethene	ND	3.6

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B5-1.0-2.0	Diln Fac:	0.7143
Lab ID:	262033-005	Batch#:	216939
Matrix:	Soil	Sampled:	10/27/14
Units:	ug/Kg	Received:	10/27/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Dibromochloromethane	ND	3.6
1,2-Dibromoethane	ND	3.6
Chlorobenzene	ND	3.6
1,1,1,2-Tetrachloroethane	ND	3.6
Ethylbenzene	ND	3.6
m,p-Xylenes	ND	3.6
o-Xylene	ND	3.6
Styrene	ND	3.6
Bromoform	ND	3.6
Isopropylbenzene	ND	3.6
1,1,2,2-Tetrachloroethane	ND	3.6
1,2,3-Trichloropropane	ND	3.6
Propylbenzene	ND	3.6
Bromobenzene	ND	3.6
1,3,5-Trimethylbenzene	ND	3.6
2-Chlorotoluene	ND	3.6
4-Chlorotoluene	ND	3.6
tert-Butylbenzene	ND	3.6
1,2,4-Trimethylbenzene	ND	3.6
sec-Butylbenzene	ND	3.6
para-Isopropyl Toluene	ND	3.6
1,3-Dichlorobenzene	ND	3.6
1,4-Dichlorobenzene	ND	3.6
n-Butylbenzene	ND	3.6
1,2-Dichlorobenzene	ND	3.6
1,2-Dibromo-3-Chloropropane	ND	3.6
1,2,4-Trichlorobenzene	ND	3.6
Hexachlorobutadiene	ND	3.6
Naphthalene	ND	3.6
1,2,3-Trichlorobenzene	ND	3.6

Surrogate	%REC	Limits
Dibromofluoromethane	116	76-128
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	91	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B5-3.0-4.0	Diln Fac:	0.8993
Lab ID:	262033-006	Batch#:	216939
Matrix:	Soil	Sampled:	10/27/14
Units:	ug/Kg	Received:	10/27/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Freon 12	ND	9.0
Chloromethane	ND	9.0
Vinyl Chloride	ND	9.0
Bromomethane	ND	9.0
Chloroethane	ND	9.0
Trichlorofluoromethane	ND	4.5
Acetone	ND	18
Freon 113	ND	4.5
1,1-Dichloroethene	ND	4.5
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.5
MTBE	ND	4.5
trans-1,2-Dichloroethene	ND	4.5
Vinyl Acetate	ND	45
1,1-Dichloroethane	ND	4.5
2-Butanone	ND	9.0
cis-1,2-Dichloroethene	ND	4.5
2,2-Dichloropropane	ND	4.5
Chloroform	ND	4.5
Bromochloromethane	ND	4.5
1,1,1-Trichloroethane	ND	4.5
1,1-Dichloropropene	ND	4.5
Carbon Tetrachloride	ND	4.5
1,2-Dichloroethane	ND	4.5
Benzene	ND	4.5
Trichloroethene	ND	4.5
1,2-Dichloropropane	ND	4.5
Bromodichloromethane	ND	4.5
Dibromomethane	ND	4.5
4-Methyl-2-Pentanone	ND	9.0
cis-1,3-Dichloropropene	ND	4.5
Toluene	ND	4.5
trans-1,3-Dichloropropene	ND	4.5
1,1,2-Trichloroethane	ND	4.5
2-Hexanone	ND	9.0
1,3-Dichloropropane	ND	4.5
Tetrachloroethene	ND	4.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B5-3.0-4.0	Diln Fac:	0.8993
Lab ID:	262033-006	Batch#:	216939
Matrix:	Soil	Sampled:	10/27/14
Units:	ug/Kg	Received:	10/27/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Dibromochloromethane	ND	4.5
1,2-Dibromoethane	ND	4.5
Chlorobenzene	ND	4.5
1,1,1,2-Tetrachloroethane	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5
Styrene	ND	4.5
Bromoform	ND	4.5
Isopropylbenzene	ND	4.5
1,1,2,2-Tetrachloroethane	ND	4.5
1,2,3-Trichloropropane	ND	4.5
Propylbenzene	ND	4.5
Bromobenzene	ND	4.5
1,3,5-Trimethylbenzene	ND	4.5
2-Chlorotoluene	ND	4.5
4-Chlorotoluene	ND	4.5
tert-Butylbenzene	ND	4.5
1,2,4-Trimethylbenzene	ND	4.5
sec-Butylbenzene	ND	4.5
para-Isopropyl Toluene	ND	4.5
1,3-Dichlorobenzene	ND	4.5
1,4-Dichlorobenzene	ND	4.5
n-Butylbenzene	ND	4.5
1,2-Dichlorobenzene	ND	4.5
1,2-Dibromo-3-Chloropropane	ND	4.5
1,2,4-Trichlorobenzene	ND	4.5
Hexachlorobutadiene	ND	4.5
Naphthalene	ND	4.5
1,2,3-Trichlorobenzene	ND	4.5

Surrogate	%REC	Limits
Dibromofluoromethane	113	76-128
1,2-Dichloroethane-d4	105	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	90	79-128

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	1098.007.01.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 216939
Units:	ug/Kg	Analyzed: 10/30/14
Diln Fac:	1.000	

Type: BS Lab ID: QC763689

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.85	119	68-135
Benzene	25.00	29.28	117	80-127
Trichloroethene	25.00	29.28	117	77-129
Toluene	25.00	27.34	109	79-125
Chlorobenzene	25.00	29.42	118	78-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	76-128
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	88	79-128

Type: BSD Lab ID: QC763690

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	24.75	28.34	115	68-135	4	35
Benzene	24.75	28.13	114	80-127	3	20
Trichloroethene	24.75	27.49	111	77-129	5	20
Toluene	24.75	26.32	106	79-125	3	23
Chlorobenzene	24.75	28.45	115	78-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	76-128
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	90	79-128

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	1098.007.01.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC763691	Batch#: 216939
Matrix:	Soil	Analyzed: 10/30/14
Units:	ug/Kg	

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	1098.007.01.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC763691	Batch#: 216939
Matrix:	Soil	Analyzed: 10/30/14
Units:	ug/Kg	

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	112	76-128
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	90	79-128

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B1-1.0-2.0	Batch#: 216966
Lab ID:	262033-001	Sampled: 10/27/14
Matrix:	Soil	Received: 10/27/14
Units:	ug/Kg	Prepared: 10/30/14
Basis:	as received	Analyzed: 10/31/14
Diln Fac:	1.000	

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	90	42-134
Decachlorobiphenyl	63	29-122

ND= Not Detected
 RL= Reporting Limit

Organochlorine Pesticides		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B3-1.0-2.0	Batch#: 216971
Lab ID:	262033-003	Sampled: 10/27/14
Matrix:	Soil	Received: 10/27/14
Units:	ug/Kg	Prepared: 10/30/14
Basis:	as received	

Cleanup Method: EPA 3620B

Analyte	Result	RL	Diln Fac	Analyzed
alpha-BHC	ND	1.7	1.000	10/31/14
beta-BHC	ND	1.7	1.000	10/31/14
gamma-BHC	ND	1.7	1.000	10/31/14
delta-BHC	ND	1.7	1.000	10/31/14
Heptachlor	ND	1.7	1.000	10/31/14
Aldrin	ND	1.7	1.000	10/31/14
Heptachlor epoxide	ND	1.7	1.000	10/31/14
Endosulfan I	ND	1.7	1.000	10/31/14
Dieldrin	ND	1.7	1.000	10/31/14
4,4'-DDE	650	33	10.00	11/03/14
Endrin	24 C	3.3	1.000	10/31/14
Endosulfan II	ND	3.3	1.000	10/31/14
Endosulfan sulfate	ND	3.3	1.000	10/31/14
4,4'-DDD	94 #	3.3	1.000	10/31/14
Endrin aldehyde	ND	3.3	1.000	10/31/14
4,4'-DDT	22	3.3	1.000	10/31/14
alpha-Chlordane	7.0	1.7	1.000	10/31/14
gamma-Chlordane	ND	1.7	1.000	10/31/14
Methoxychlor	ND	17	1.000	10/31/14
Toxaphene	ND	60	1.000	10/31/14

Surrogate	%REC	Limits	Diln Fac	Analyzed
TCMX	83	42-134	1.000	10/31/14
Decachlorobiphenyl	98	29-122	1.000	10/31/14

#= CCV drift outside limits; average CCV drift within limits per method requirements

C= Presence confirmed, but RPD between columns exceeds 40%

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B5-1.0-2.0	Batch#: 216971
Lab ID:	262033-005	Sampled: 10/27/14
Matrix:	Soil	Received: 10/27/14
Units:	ug/Kg	Prepared: 10/30/14
Basis:	as received	Analyzed: 11/01/14
Diln Fac:	1.000	

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	93	42-134
Decachlorobiphenyl	77	29-122

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC763802	Batch#: 216966
Matrix:	Soil	Prepared: 10/30/14
Units:	ug/Kg	Analyzed: 10/31/14

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	84	42-134
Decachlorobiphenyl	66	29-122

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC763806	Batch#: 216966
Matrix:	Soil	Prepared: 10/30/14
Units:	ug/Kg	Analyzed: 11/03/14

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.32	10.18	76	46-120
Heptachlor	13.32	10.02	75	41-124
Aldrin	13.32	9.616	72	48-122
Dieldrin	13.32	10.60	80	39-142
Endrin	13.32	10.04	75	45-138
4,4'-DDT	13.32	10.46	78	32-145

Surrogate	%REC	Limits
TCMX	77	42-134
Decachlorobiphenyl	70	29-122

Batch QC Report

Organochlorine Pesticides		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B1-1.0-2.0	Batch#: 216966
MSS Lab ID:	262033-001	Sampled: 10/27/14
Matrix:	Soil	Received: 10/27/14
Units:	ug/Kg	Prepared: 10/30/14
Basis:	as received	Analyzed: 11/03/14
Diln Fac:	1.000	

Type: MS Lab ID: QC763807

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.2161	13.32	8.961	67	42-136
Heptachlor	<0.1915	13.32	8.469	64	40-144
Aldrin	<0.2048	13.32	8.229	62	45-143
Dieldrin	<0.3979	13.32	8.774	66	47-145
Endrin	<0.5603	13.32	9.061	68	46-150
4,4'-DDT	<0.4731	13.32	9.715	73	30-157

Surrogate	%REC	Limits
TCMX	69	42-134
Decachlorobiphenyl	54	29-122

Type: MSD Lab ID: QC763808

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	13.17	9.315	71	42-136	5	40
Heptachlor	13.17	8.249	63	40-144	1	46
Aldrin	13.17	8.469	64	45-143	4	41
Dieldrin	13.17	9.216	70	47-145	6	36
Endrin	13.17	9.454	72	46-150	5	41
4,4'-DDT	13.17	9.393	71	30-157	2	52

Surrogate	%REC	Limits
TCMX	69	42-134
Decachlorobiphenyl	58	29-122

RPD= Relative Percent Difference

Batch QC Report

Organochlorine Pesticides		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC763826	Batch#: 216971
Matrix:	Soil	Prepared: 10/30/14
Units:	ug/Kg	Analyzed: 10/31/14

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND #	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND #	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	79	42-134
Decachlorobiphenyl	76	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC763827	Batch#: 216971
Matrix:	Soil	Prepared: 10/30/14
Units:	ug/Kg	Analyzed: 10/31/14

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.16	8.724	66	46-120
Heptachlor	13.16	8.756	67	41-124
Aldrin	13.16	8.759	67	48-122
Dieldrin	13.16	9.881	75	39-142
Endrin	13.16	8.476 #	64	45-138
4,4'-DDT	13.16	12.14	92	32-145

Surrogate	%REC	Limits
TCMX	69	42-134
Decachlorobiphenyl	70	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

Arsenic		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1098.007.01.001	Analysis: EPA 6010B
Analyte:	Arsenic	Batch#: 216863
Matrix:	Soil	Sampled: 10/27/14
Units:	mg/Kg	Received: 10/27/14
Basis:	as received	Prepared: 10/28/14
Diln Fac:	1.000	Analyzed: 10/29/14

Field ID	Type	Lab ID	Result	RL
B1-1.0-2.0	SAMPLE	262033-001	5.3	0.23
B3-1.0-2.0	SAMPLE	262033-003	5.8	0.24
B5-1.0-2.0	SAMPLE	262033-005	5.3	0.25
	BLANK	QC763400	ND	0.25

ND= Not Detected
 RL= Reporting Limit

Lead			
Lab #:	262033	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1098.007.01.001	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	216863
Matrix:	Soil	Sampled:	10/27/14
Units:	mg/Kg	Received:	10/27/14
Basis:	as received	Prepared:	10/28/14
Diln Fac:	1.000	Analyzed:	10/29/14

Field ID	Type	Lab ID	Result	RL
B1-1.0-2.0	SAMPLE	262033-001	5.1	0.23
B3-1.0-2.0	SAMPLE	262033-003	8.9	0.24
B5-1.0-2.0	SAMPLE	262033-005	5.3	0.25
	BLANK	QC763400	0.25 b	0.25

b= See narrative

RL= Reporting Limit

Batch QC Report

Arsenic		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1098.007.01.001	Analysis: EPA 6010B
Analyte:	Arsenic	Diln Fac: 5.000
Field ID:	ZZZZZZZZZZ	Batch#: 216863
MSS Lab ID:	262002-001	Sampled: 10/24/14
Matrix:	Soil	Received: 10/24/14
Units:	mg/Kg	Prepared: 10/28/14
Basis:	as received	Analyzed: 10/29/14

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC763401		50.00	49.50	99	80-120		
BSD	QC763402		50.00	57.08	114	80-120	14	20
MS	QC763403	<0.06853	48.54	52.54	108	72-120		
MSD	QC763404		49.50	50.88	103	72-120	5	30

RPD= Relative Percent Difference

Batch QC Report

Lead		
Lab #:	262033	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1098.007.01.001	Analysis: EPA 6010B
Analyte:	Lead	Diln Fac: 5.000
Field ID:	ZZZZZZZZZZ	Batch#: 216863
MSS Lab ID:	262002-001	Sampled: 10/24/14
Matrix:	Soil	Received: 10/24/14
Units:	mg/Kg	Prepared: 10/28/14
Basis:	as received	Analyzed: 10/29/14

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC763401		50.00	47.42	95	80-120		
BSD	QC763402		50.00	53.81	108	80-120	13	20
MS	QC763403	<0.06569	48.54	48.54	100	52-122		
MSD	QC763404		49.50	46.84	95	52-122	6	49

RPD= Relative Percent Difference



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Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 262069
ANALYTICAL REPORT

PES Environmental, Inc.
1682 Novato Boulevard
Novato, CA 94947

Project : 1098.007.01.001
Location : State Street, Fremont
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
B6-1.0-2.0	262069-001
B6-3.0-4.0	262069-002
B7-1.0-2.0	262069-003
B7-3.0-4.0	262069-004
B8-1.0-2.0	262069-005
B8-3.0-4.0	262069-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Will S Rice
Project Manager
will.rice@ctberk.com

Date: 11/04/2014

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number: 262069
Client: PES Environmental, Inc.
Project: 1098.007.01.001
Location: State Street, Fremont
Request Date: 10/28/14
Samples Received: 10/28/14

This data package contains sample and QC results for four soil samples, requested for the above referenced project on 10/28/14. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes were not performed for this analysis in batch 216939 due to insufficient sample amount. No other analytical problems were encountered.

Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. All samples underwent florisil cleanup using EPA Method 3620C. No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.



PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: Curtis & Tompkins
JOB NUMBER: 1098-007-01-001
NAME / LOCATION: State Street, Fremont
PROJECT MANAGER: Carl Michelson

SAMPLERS: Gavin Creps
RECORDER: Gavin Creps

ANALYSIS REQUESTED

EPA 5035/8010	
EPA 5035/8021	
EPA 5035/8260B	
TPHg by 5035/8015M	
TPHd by 8015M	
TPHm by 8015M	
EPA 8270C	
MNA Parameters (see notes)	
Organohalogen Pesticides	XXX
Formal Lead	XXX
Arsenic	XXX

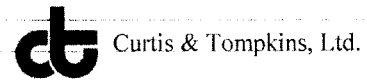
MATRIX	# of Containers & Preservatives						DEPTH IN FEET
	Unpres.	EnCore	H ₂ SO ₄	HNO ₃	HCl	Other	
Vapor							
Water							
Soil	X						
Sedim't							
		1			1	2	HOLD
		1			1	2	HOLD
		1			1	2	HOLD
		1			1	2	HOLD
		1			1	2	HOLD
		1			1	2	HOLD

DATE			SAMPLE NUMBER / DESIGNATION
YR	MO	DY	
14	10	28	1255 B6-10-2.0
			1300 B6-30-4.0
			1340 B7-10-2.0
			1550 B7-30-4.0
			1435 B8-10-2.0
			1440 B8-30-4.0

NOTES		CHAIN OF CUSTODY RECORD	
Turn Around Time: <u>Standard</u>		RECEIVED BY: (Signature)	DATE: <u>10/21/14</u> TIME: <u>1450</u>
Terra core set submitted for samples 1.0-2.0 please hold for instruction		RECEIVED BY: (Signature)	DATE: <u>10/21/14</u> TIME: <u>1800</u>
		RECEIVED BY: (Signature)	DATE: TIME
		RECEIVED BY: (Signature)	DATE: TIME
		RECEIVED BY: (Signature)	DATE: TIME
		RECEIVED FOR LAB BY: (Signature)	DATE: TIME
METHOD OF SHIPMENT:			

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy
n.ta T on ice cold lla

COOLER RECEIPT CHECKLIST



Login # 262069 Date Received 10/28/14 Number of coolers 1
Client PES Project 1098.007-01-001

Date Opened 10/28 By (print) [Signature] (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

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

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 2-8°

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer? 10/28/14 @ 21:21

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Detections Summary for 262069

Results for any subcontracted analyses are not included in this summary.

Client : PES Environmental, Inc.
 Project : 1098.007.01.001
 Location : State Street, Fremont

Client Sample ID : B6-1.0-2.0 Laboratory Sample ID : 262069-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Dieldrin	2.1	#,C	1.7	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDE	430		33	ug/Kg	As Recd	10.00	EPA 8081A	EPA 3550B
Endrin	48		33	ug/Kg	As Recd	10.00	EPA 8081A	EPA 3550B
4,4'-DDD	86	#	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDT	89		3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
alpha-Chlordane	4.9		1.7	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
Arsenic	8.2		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	13		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

Client Sample ID : B6-3.0-4.0 Laboratory Sample ID : 262069-002

No Detections

Client Sample ID : B7-1.0-2.0 Laboratory Sample ID : 262069-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
4,4'-DDE	320		33	ug/Kg	As Recd	10.00	EPA 8081A	EPA 3550B
Endrin	24	C	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDD	61	#	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDT	75		3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
Arsenic	7.3		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	9.7		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

Client Sample ID : B8-1.0-2.0 Laboratory Sample ID : 262069-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Dieldrin	3.5	#,C	1.7	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDE	850	C	33	ug/Kg	As Recd	10.00	EPA 8081A	EPA 3550B
Endrin	37		3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDD	87	#	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDT	27		3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
alpha-Chlordane	9.6		1.7	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
Arsenic	7.8		0.23	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	10		0.23	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

= CCV drift outside limits; average CCV drift within limits per method requirements
 C = Presence confirmed, but RPD between columns exceeds 40%

Purgeable Organics by GC/MS

Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B6-1.0-2.0	Diln Fac:	0.7949
Lab ID:	262069-001	Batch#:	216939
Matrix:	Soil	Sampled:	10/28/14
Units:	ug/Kg	Received:	10/28/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Freon 12	ND	7.9
Chloromethane	ND	7.9
Vinyl Chloride	ND	7.9
Bromomethane	ND	7.9
Chloroethane	ND	7.9
Trichlorofluoromethane	ND	4.0
Acetone	ND	16
Freon 113	ND	4.0
1,1-Dichloroethene	ND	4.0
Methylene Chloride	ND	16
Carbon Disulfide	ND	4.0
MTBE	ND	4.0
trans-1,2-Dichloroethene	ND	4.0
Vinyl Acetate	ND	40
1,1-Dichloroethane	ND	4.0
2-Butanone	ND	7.9
cis-1,2-Dichloroethene	ND	4.0
2,2-Dichloropropane	ND	4.0
Chloroform	ND	4.0
Bromochloromethane	ND	4.0
1,1,1-Trichloroethane	ND	4.0
1,1-Dichloropropene	ND	4.0
Carbon Tetrachloride	ND	4.0
1,2-Dichloroethane	ND	4.0
Benzene	ND	4.0
Trichloroethene	ND	4.0
1,2-Dichloropropane	ND	4.0
Bromodichloromethane	ND	4.0
Dibromomethane	ND	4.0
4-Methyl-2-Pentanone	ND	7.9
cis-1,3-Dichloropropene	ND	4.0
Toluene	ND	4.0
trans-1,3-Dichloropropene	ND	4.0
1,1,2-Trichloroethane	ND	4.0
2-Hexanone	ND	7.9
1,3-Dichloropropane	ND	4.0
Tetrachloroethene	ND	4.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B6-1.0-2.0	Diln Fac:	0.7949
Lab ID:	262069-001	Batch#:	216939
Matrix:	Soil	Sampled:	10/28/14
Units:	ug/Kg	Received:	10/28/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Dibromochloromethane	ND	4.0
1,2-Dibromoethane	ND	4.0
Chlorobenzene	ND	4.0
1,1,1,2-Tetrachloroethane	ND	4.0
Ethylbenzene	ND	4.0
m,p-Xylenes	ND	4.0
o-Xylene	ND	4.0
Styrene	ND	4.0
Bromoform	ND	4.0
Isopropylbenzene	ND	4.0
1,1,2,2-Tetrachloroethane	ND	4.0
1,2,3-Trichloropropane	ND	4.0
Propylbenzene	ND	4.0
Bromobenzene	ND	4.0
1,3,5-Trimethylbenzene	ND	4.0
2-Chlorotoluene	ND	4.0
4-Chlorotoluene	ND	4.0
tert-Butylbenzene	ND	4.0
1,2,4-Trimethylbenzene	ND	4.0
sec-Butylbenzene	ND	4.0
para-Isopropyl Toluene	ND	4.0
1,3-Dichlorobenzene	ND	4.0
1,4-Dichlorobenzene	ND	4.0
n-Butylbenzene	ND	4.0
1,2-Dichlorobenzene	ND	4.0
1,2-Dibromo-3-Chloropropane	ND	4.0
1,2,4-Trichlorobenzene	ND	4.0
Hexachlorobutadiene	ND	4.0
Naphthalene	ND	4.0
1,2,3-Trichlorobenzene	ND	4.0

Surrogate	%REC	Limits
Dibromofluoromethane	117	76-128
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	89	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B6-3.0-4.0	Diln Fac:	0.6485
Lab ID:	262069-002	Batch#:	216939
Matrix:	Soil	Sampled:	10/28/14
Units:	ug/Kg	Received:	10/28/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Freon 12	ND	6.5
Chloromethane	ND	6.5
Vinyl Chloride	ND	6.5
Bromomethane	ND	6.5
Chloroethane	ND	6.5
Trichlorofluoromethane	ND	3.2
Acetone	ND	13
Freon 113	ND	3.2
1,1-Dichloroethene	ND	3.2
Methylene Chloride	ND	13
Carbon Disulfide	ND	3.2
MTBE	ND	3.2
trans-1,2-Dichloroethene	ND	3.2
Vinyl Acetate	ND	32
1,1-Dichloroethane	ND	3.2
2-Butanone	ND	6.5
cis-1,2-Dichloroethene	ND	3.2
2,2-Dichloropropane	ND	3.2
Chloroform	ND	3.2
Bromochloromethane	ND	3.2
1,1,1-Trichloroethane	ND	3.2
1,1-Dichloropropene	ND	3.2
Carbon Tetrachloride	ND	3.2
1,2-Dichloroethane	ND	3.2
Benzene	ND	3.2
Trichloroethene	ND	3.2
1,2-Dichloropropane	ND	3.2
Bromodichloromethane	ND	3.2
Dibromomethane	ND	3.2
4-Methyl-2-Pentanone	ND	6.5
cis-1,3-Dichloropropene	ND	3.2
Toluene	ND	3.2
trans-1,3-Dichloropropene	ND	3.2
1,1,2-Trichloroethane	ND	3.2
2-Hexanone	ND	6.5
1,3-Dichloropropane	ND	3.2
Tetrachloroethene	ND	3.2

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B6-3.0-4.0	Diln Fac:	0.6485
Lab ID:	262069-002	Batch#:	216939
Matrix:	Soil	Sampled:	10/28/14
Units:	ug/Kg	Received:	10/28/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Dibromochloromethane	ND	3.2
1,2-Dibromoethane	ND	3.2
Chlorobenzene	ND	3.2
1,1,1,2-Tetrachloroethane	ND	3.2
Ethylbenzene	ND	3.2
m,p-Xylenes	ND	3.2
o-Xylene	ND	3.2
Styrene	ND	3.2
Bromoform	ND	3.2
Isopropylbenzene	ND	3.2
1,1,2,2-Tetrachloroethane	ND	3.2
1,2,3-Trichloropropane	ND	3.2
Propylbenzene	ND	3.2
Bromobenzene	ND	3.2
1,3,5-Trimethylbenzene	ND	3.2
2-Chlorotoluene	ND	3.2
4-Chlorotoluene	ND	3.2
tert-Butylbenzene	ND	3.2
1,2,4-Trimethylbenzene	ND	3.2
sec-Butylbenzene	ND	3.2
para-Isopropyl Toluene	ND	3.2
1,3-Dichlorobenzene	ND	3.2
1,4-Dichlorobenzene	ND	3.2
n-Butylbenzene	ND	3.2
1,2-Dichlorobenzene	ND	3.2
1,2-Dibromo-3-Chloropropane	ND	3.2
1,2,4-Trichlorobenzene	ND	3.2
Hexachlorobutadiene	ND	3.2
Naphthalene	ND	3.2
1,2,3-Trichlorobenzene	ND	3.2

Surrogate	%REC	Limits
Dibromofluoromethane	117	76-128
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	89	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B7-1.0-2.0	Diln Fac:	0.6536
Lab ID:	262069-003	Batch#:	216939
Matrix:	Soil	Sampled:	10/28/14
Units:	ug/Kg	Received:	10/28/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Freon 12	ND	6.5
Chloromethane	ND	6.5
Vinyl Chloride	ND	6.5
Bromomethane	ND	6.5
Chloroethane	ND	6.5
Trichlorofluoromethane	ND	3.3
Acetone	ND	13
Freon 113	ND	3.3
1,1-Dichloroethene	ND	3.3
Methylene Chloride	ND	13
Carbon Disulfide	ND	3.3
MTBE	ND	3.3
trans-1,2-Dichloroethene	ND	3.3
Vinyl Acetate	ND	33
1,1-Dichloroethane	ND	3.3
2-Butanone	ND	6.5
cis-1,2-Dichloroethene	ND	3.3
2,2-Dichloropropane	ND	3.3
Chloroform	ND	3.3
Bromochloromethane	ND	3.3
1,1,1-Trichloroethane	ND	3.3
1,1-Dichloropropene	ND	3.3
Carbon Tetrachloride	ND	3.3
1,2-Dichloroethane	ND	3.3
Benzene	ND	3.3
Trichloroethene	ND	3.3
1,2-Dichloropropane	ND	3.3
Bromodichloromethane	ND	3.3
Dibromomethane	ND	3.3
4-Methyl-2-Pentanone	ND	6.5
cis-1,3-Dichloropropene	ND	3.3
Toluene	ND	3.3
trans-1,3-Dichloropropene	ND	3.3
1,1,2-Trichloroethane	ND	3.3
2-Hexanone	ND	6.5
1,3-Dichloropropane	ND	3.3
Tetrachloroethene	ND	3.3

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B7-1.0-2.0	Diln Fac:	0.6536
Lab ID:	262069-003	Batch#:	216939
Matrix:	Soil	Sampled:	10/28/14
Units:	ug/Kg	Received:	10/28/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Dibromochloromethane	ND	3.3
1,2-Dibromoethane	ND	3.3
Chlorobenzene	ND	3.3
1,1,1,2-Tetrachloroethane	ND	3.3
Ethylbenzene	ND	3.3
m,p-Xylenes	ND	3.3
o-Xylene	ND	3.3
Styrene	ND	3.3
Bromoform	ND	3.3
Isopropylbenzene	ND	3.3
1,1,2,2-Tetrachloroethane	ND	3.3
1,2,3-Trichloropropane	ND	3.3
Propylbenzene	ND	3.3
Bromobenzene	ND	3.3
1,3,5-Trimethylbenzene	ND	3.3
2-Chlorotoluene	ND	3.3
4-Chlorotoluene	ND	3.3
tert-Butylbenzene	ND	3.3
1,2,4-Trimethylbenzene	ND	3.3
sec-Butylbenzene	ND	3.3
para-Isopropyl Toluene	ND	3.3
1,3-Dichlorobenzene	ND	3.3
1,4-Dichlorobenzene	ND	3.3
n-Butylbenzene	ND	3.3
1,2-Dichlorobenzene	ND	3.3
1,2-Dibromo-3-Chloropropane	ND	3.3
1,2,4-Trichlorobenzene	ND	3.3
Hexachlorobutadiene	ND	3.3
Naphthalene	ND	3.3
1,2,3-Trichlorobenzene	ND	3.3

Surrogate	%REC	Limits
Dibromofluoromethane	114	76-128
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	89	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B8-1.0-2.0	Diln Fac:	0.7386
Lab ID:	262069-005	Batch#:	216939
Matrix:	Soil	Sampled:	10/28/14
Units:	ug/Kg	Received:	10/28/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Freon 12	ND	7.4
Chloromethane	ND	7.4
Vinyl Chloride	ND	7.4
Bromomethane	ND	7.4
Chloroethane	ND	7.4
Trichlorofluoromethane	ND	3.7
Acetone	ND	15
Freon 113	ND	3.7
1,1-Dichloroethene	ND	3.7
Methylene Chloride	ND	15
Carbon Disulfide	ND	3.7
MTBE	ND	3.7
trans-1,2-Dichloroethene	ND	3.7
Vinyl Acetate	ND	37
1,1-Dichloroethane	ND	3.7
2-Butanone	ND	7.4
cis-1,2-Dichloroethene	ND	3.7
2,2-Dichloropropane	ND	3.7
Chloroform	ND	3.7
Bromochloromethane	ND	3.7
1,1,1-Trichloroethane	ND	3.7
1,1-Dichloropropene	ND	3.7
Carbon Tetrachloride	ND	3.7
1,2-Dichloroethane	ND	3.7
Benzene	ND	3.7
Trichloroethene	ND	3.7
1,2-Dichloropropane	ND	3.7
Bromodichloromethane	ND	3.7
Dibromomethane	ND	3.7
4-Methyl-2-Pentanone	ND	7.4
cis-1,3-Dichloropropene	ND	3.7
Toluene	ND	3.7
trans-1,3-Dichloropropene	ND	3.7
1,1,2-Trichloroethane	ND	3.7
2-Hexanone	ND	7.4
1,3-Dichloropropane	ND	3.7
Tetrachloroethene	ND	3.7

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B8-1.0-2.0	Diln Fac:	0.7386
Lab ID:	262069-005	Batch#:	216939
Matrix:	Soil	Sampled:	10/28/14
Units:	ug/Kg	Received:	10/28/14
Basis:	as received	Analyzed:	10/30/14

Analyte	Result	RL
Dibromochloromethane	ND	3.7
1,2-Dibromoethane	ND	3.7
Chlorobenzene	ND	3.7
1,1,1,2-Tetrachloroethane	ND	3.7
Ethylbenzene	ND	3.7
m,p-Xylenes	ND	3.7
o-Xylene	ND	3.7
Styrene	ND	3.7
Bromoform	ND	3.7
Isopropylbenzene	ND	3.7
1,1,2,2-Tetrachloroethane	ND	3.7
1,2,3-Trichloropropane	ND	3.7
Propylbenzene	ND	3.7
Bromobenzene	ND	3.7
1,3,5-Trimethylbenzene	ND	3.7
2-Chlorotoluene	ND	3.7
4-Chlorotoluene	ND	3.7
tert-Butylbenzene	ND	3.7
1,2,4-Trimethylbenzene	ND	3.7
sec-Butylbenzene	ND	3.7
para-Isopropyl Toluene	ND	3.7
1,3-Dichlorobenzene	ND	3.7
1,4-Dichlorobenzene	ND	3.7
n-Butylbenzene	ND	3.7
1,2-Dichlorobenzene	ND	3.7
1,2-Dibromo-3-Chloropropane	ND	3.7
1,2,4-Trichlorobenzene	ND	3.7
Hexachlorobutadiene	ND	3.7
Naphthalene	ND	3.7
1,2,3-Trichlorobenzene	ND	3.7

Surrogate	%REC	Limits
Dibromofluoromethane	115	76-128
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	89	79-128

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	216939
Units:	ug/Kg	Analyzed:	10/30/14
Diln Fac:	1.000		

Type: BS Lab ID: QC763689

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	29.85	119	68-135
Benzene	25.00	29.28	117	80-127
Trichloroethene	25.00	29.28	117	77-129
Toluene	25.00	27.34	109	79-125
Chlorobenzene	25.00	29.42	118	78-120

Surrogate	%REC	Limits
Dibromofluoromethane	104	76-128
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	88	79-128

Type: BSD Lab ID: QC763690

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	24.75	28.34	115	68-135	4	35
Benzene	24.75	28.13	114	80-127	3	20
Trichloroethene	24.75	27.49	111	77-129	5	20
Toluene	24.75	26.32	106	79-125	3	23
Chlorobenzene	24.75	28.45	115	78-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	76-128
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	90	79-128

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC763691	Batch#:	216939
Matrix:	Soil	Analyzed:	10/30/14
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC763691	Batch#:	216939
Matrix:	Soil	Analyzed:	10/30/14
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	112	76-128
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	90	79-128

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	B6-1.0-2.0	Batch#:	216971
Lab ID:	262069-001	Sampled:	10/28/14
Matrix:	Soil	Received:	10/28/14
Units:	ug/Kg	Prepared:	10/30/14
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	Diln Fac	Analyzed
alpha-BHC	ND	1.7	1.000	11/01/14
beta-BHC	ND	1.7	1.000	11/01/14
gamma-BHC	ND	1.7	1.000	11/01/14
delta-BHC	ND	1.7	1.000	11/01/14
Heptachlor	ND	1.7	1.000	11/01/14
Aldrin	ND	1.7	1.000	11/01/14
Heptachlor epoxide	ND	1.7	1.000	11/01/14
Endosulfan I	ND	1.7	1.000	11/01/14
Dieldrin	2.1 C #	1.7	1.000	11/01/14
4,4'-DDE	430	33	10.00	11/03/14
Endrin	48	33	10.00	11/03/14
Endosulfan II	ND	3.3	1.000	11/01/14
Endosulfan sulfate	ND	3.3	1.000	11/01/14
4,4'-DDD	86 #	3.3	1.000	11/01/14
Endrin aldehyde	ND	3.3	1.000	11/01/14
4,4'-DDT	89	3.3	1.000	11/01/14
alpha-Chlordane	4.9	1.7	1.000	11/01/14
gamma-Chlordane	ND	1.7	1.000	11/01/14
Methoxychlor	ND	17	1.000	11/01/14
Toxaphene	ND	59	1.000	11/01/14

Surrogate	%REC	Limits	Diln Fac	Analyzed
TCMX	98	42-134	1.000	11/01/14
Decachlorobiphenyl	91	29-122	1.000	11/01/14

#= CCV drift outside limits; average CCV drift within limits per method requirements

C= Presence confirmed, but RPD between columns exceeds 40%

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	B7-1.0-2.0	Batch#:	216971
Lab ID:	262069-003	Sampled:	10/28/14
Matrix:	Soil	Received:	10/28/14
Units:	ug/Kg	Prepared:	10/30/14
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	Diln Fac	Analyzed
alpha-BHC	ND	1.7	1.000	11/01/14
beta-BHC	ND	1.7	1.000	11/01/14
gamma-BHC	ND	1.7	1.000	11/01/14
delta-BHC	ND	1.7	1.000	11/01/14
Heptachlor	ND	1.7	1.000	11/01/14
Aldrin	ND	1.7	1.000	11/01/14
Heptachlor epoxide	ND	1.7	1.000	11/01/14
Endosulfan I	ND	1.7	1.000	11/01/14
Dieldrin	ND	1.7	1.000	11/01/14
4,4'-DDE	320	33	10.00	11/03/14
Endrin	24 C	3.3	1.000	11/01/14
Endosulfan II	ND	3.3	1.000	11/01/14
Endosulfan sulfate	ND	3.3	1.000	11/01/14
4,4'-DDD	61 #	3.3	1.000	11/01/14
Endrin aldehyde	ND	3.3	1.000	11/01/14
4,4'-DDT	75	3.3	1.000	11/01/14
alpha-Chlordane	ND	1.7	1.000	11/01/14
gamma-Chlordane	ND	1.7	1.000	11/01/14
Methoxychlor	ND	17	1.000	11/01/14
Toxaphene	ND	59	1.000	11/01/14

Surrogate	%REC	Limits	Diln Fac	Analyzed
TCMX	94	42-134	1.000	11/01/14
Decachlorobiphenyl	88	29-122	1.000	11/01/14

#= CCV drift outside limits; average CCV drift within limits per method requirements

C= Presence confirmed, but RPD between columns exceeds 40%

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	B8-1.0-2.0	Batch#:	216971
Lab ID:	262069-005	Sampled:	10/28/14
Matrix:	Soil	Received:	10/28/14
Units:	ug/Kg	Prepared:	10/30/14
Basis:	as received		

Cleanup Method: EPA 3620B

Analyte	Result	RL	Diln Fac	Analyzed
alpha-BHC	ND	1.7	1.000	11/01/14
beta-BHC	ND	1.7	1.000	11/01/14
gamma-BHC	ND	1.7	1.000	11/01/14
delta-BHC	ND	1.7	1.000	11/01/14
Heptachlor	ND	1.7	1.000	11/01/14
Aldrin	ND	1.7	1.000	11/01/14
Heptachlor epoxide	ND	1.7	1.000	11/01/14
Endosulfan I	ND	1.7	1.000	11/01/14
Dieldrin	3.5 C #	1.7	1.000	11/01/14
4,4'-DDE	850 C	33	10.00	11/03/14
Endrin	37	3.3	1.000	11/01/14
Endosulfan II	ND	3.3	1.000	11/01/14
Endosulfan sulfate	ND	3.3	1.000	11/01/14
4,4'-DDD	87 #	3.3	1.000	11/01/14
Endrin aldehyde	ND	3.3	1.000	11/01/14
4,4'-DDT	27	3.3	1.000	11/01/14
alpha-Chlordane	9.6	1.7	1.000	11/01/14
gamma-Chlordane	ND	1.7	1.000	11/01/14
Methoxychlor	ND	17	1.000	11/01/14
Toxaphene	ND	60	1.000	11/01/14

Surrogate	%REC	Limits	Diln Fac	Analyzed
TCMX	89	42-134	1.000	11/01/14
Decachlorobiphenyl	90	29-122	1.000	11/01/14

#= CCV drift outside limits; average CCV drift within limits per method requirements

C= Presence confirmed, but RPD between columns exceeds 40%

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC763826	Batch#:	216971
Matrix:	Soil	Prepared:	10/30/14
Units:	ug/Kg	Analyzed:	10/31/14

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND #	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND #	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	79	42-134
Decachlorobiphenyl	76	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC763827	Batch#:	216971
Matrix:	Soil	Prepared:	10/30/14
Units:	ug/Kg	Analyzed:	10/31/14

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.16	8.724	66	46-120
Heptachlor	13.16	8.756	67	41-124
Aldrin	13.16	8.759	67	48-122
Dieldrin	13.16	9.881	75	39-142
Endrin	13.16	8.476 #	64	45-138
4,4'-DDT	13.16	12.14	92	32-145

Surrogate	%REC	Limits
TCMX	69	42-134
Decachlorobiphenyl	70	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

Arsenic			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1098.007.01.001	Analysis:	EPA 6010B
Analyte:	Arsenic	Batch#:	216908
Matrix:	Soil	Sampled:	10/28/14
Units:	mg/Kg	Received:	10/28/14
Basis:	as received	Prepared:	10/29/14
Diln Fac:	1.000	Analyzed:	11/03/14

Field ID	Type	Lab ID	Result	RL
B6-1.0-2.0	SAMPLE	262069-001	8.2	0.25
B7-1.0-2.0	SAMPLE	262069-003	7.3	0.25
B8-1.0-2.0	SAMPLE	262069-005	7.8	0.23
	BLANK	QC763575	ND	0.25

ND= Not Detected
 RL= Reporting Limit

Lead			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1098.007.01.001	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	216908
Matrix:	Soil	Sampled:	10/28/14
Units:	mg/Kg	Received:	10/28/14
Basis:	as received	Prepared:	10/29/14
Diln Fac:	1.000	Analyzed:	11/03/14

Field ID	Type	Lab ID	Result	RL
B6-1.0-2.0	SAMPLE	262069-001	13	0.25
B7-1.0-2.0	SAMPLE	262069-003	9.7	0.25
B8-1.0-2.0	SAMPLE	262069-005	10	0.23
	BLANK	QC763575	ND	0.25

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Arsenic			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1098.007.01.001	Analysis:	EPA 6010B
Analyte:	Arsenic	Diln Fac:	5.000
Field ID:	ZZZZZZZZZZ	Batch#:	216908
MSS Lab ID:	262048-001	Sampled:	10/24/14
Matrix:	Soil	Received:	10/28/14
Units:	mg/Kg	Prepared:	10/29/14
Basis:	as received	Analyzed:	11/03/14

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC763576		50.00	52.92	106	80-120		
BSD	QC763577		50.00	53.25	107	80-120	1	20
MS	QC763578	3.446	52.08	57.24	103	72-120		
MSD	QC763579		47.17	52.98	105	72-120	2	30

RPD= Relative Percent Difference

Batch QC Report

Lead			
Lab #:	262069	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	1098.007.01.001	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	5.000
Field ID:	ZZZZZZZZZZ	Batch#:	216908
MSS Lab ID:	262048-001	Sampled:	10/24/14
Matrix:	Soil	Received:	10/28/14
Units:	mg/Kg	Prepared:	10/29/14
Basis:	as received	Analyzed:	11/03/14

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC763576		50.00	49.85	100	80-120		
BSD	QC763577		50.00	50.36	101	80-120	1	20
MS	QC763578	2.355	52.08	53.82	99	52-122		
MSD	QC763579		47.17	49.57	100	52-122	1	49

RPD= Relative Percent Difference



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 262098
ANALYTICAL REPORT

PES Environmental, Inc. 1682 Novato Boulevard Novato, CA 94947	Project : 1098.007.01.001 Location : 39155 & 39183 State St., Fremont Level : II
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<u>Sample ID</u>	<u>Lab ID</u>
B16-1.0-2.0	262098-001
B16-3.0-4.0	262098-002
B11-1.0-2.0	262098-003
B11-3.0-4..0	262098-004
B12-1.0-2.0	262098-005
B12-3.0-4.0	262098-006
B13-1.0-2.0	262098-007
B13-3.0-4..0	262098-008

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 11/05/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CASE NARRATIVE

Laboratory number: 262098
Client: PES Environmental, Inc.
Project: 1098.007.01.001
Location: 39155 & 39183 State St., Fremont
Request Date: 10/30/14
Samples Received: 10/30/14

This data package contains sample and QC results for five soil samples, requested for the above referenced project on 10/30/14. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

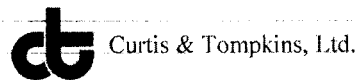
Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. All samples underwent florisil cleanup using EPA Method 3620C. B12-1.0-2.0 (lab # 262098-005) and B13-1.0-2.0 (lab # 262098-007) were diluted due to the color of the sample extracts. No other analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Login # 262098 Date Received 10/29 Number of coolers 1
Client PVT Project 1098.007.01.001

Date Opened 10/29 By (print) EJ (sign) EJ
Date Logged in 10/30 By (print) EJ (sign) EJ

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

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

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)
Bubble Wrap Foam blocks Bags None
Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Detections Summary for 262098

Results for any subcontracted analyses are not included in this summary.

Client : PES Environmental, Inc.
 Project : 1098.007.01.001
 Location : 39155 & 39183 State St., Fremont

Client Sample ID : B16-1.0-2.0 Laboratory Sample ID : 262098-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
4,4'-DDE	21		3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDT	7.7		3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
Arsenic	4.7		0.24	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	5.3		0.24	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

Client Sample ID : B16-3.0-4.0 Laboratory Sample ID : 262098-002

No Detections

Client Sample ID : B11-1.0-2.0 Laboratory Sample ID : 262098-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
4,4'-DDE	670	C	33	ug/Kg	As Recd	10.00	EPA 8081A	EPA 3550B
Endrin	27	C	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDD	6.1	#,C	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDT	130		3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
alpha-Chlordane	5.4		1.7	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
Arsenic	4.3		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	5.3		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

Client Sample ID : B12-1.0-2.0 Laboratory Sample ID : 262098-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
4,4'-DDE	460		33	ug/Kg	As Recd	10.00	EPA 8081A	EPA 3550B
4,4'-DDT	100		33	ug/Kg	As Recd	10.00	EPA 8081A	EPA 3550B
Arsenic	4.3		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	7.7		0.25	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

Client Sample ID : B13-1.0-2.0 Laboratory Sample ID : 262098-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
4,4'-DDE	54		17	ug/Kg	As Recd	5.000	EPA 8081A	EPA 3550B
Arsenic	5.6		0.23	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B
Lead	11		0.23	mg/Kg	As Recd	1.000	EPA 6010B	EPA 3050B

= CCV drift outside limits; average CCV drift within limits per method requirement
 C = Presence confirmed, but RPD between columns exceeds 40%

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B16-1.0-2.0	Diln Fac:	0.7541
Lab ID:	262098-001	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Freon 12	ND	7.5
Chloromethane	ND	7.5
Vinyl Chloride	ND	7.5
Bromomethane	ND	7.5
Chloroethane	ND	7.5
Trichlorofluoromethane	ND	3.8
Acetone	ND	15
Freon 113	ND	3.8
1,1-Dichloroethene	ND	3.8
Methylene Chloride	ND	15
Carbon Disulfide	ND	3.8
MTBE	ND	3.8
trans-1,2-Dichloroethene	ND	3.8
Vinyl Acetate	ND	38
1,1-Dichloroethane	ND	3.8
2-Butanone	ND	7.5
cis-1,2-Dichloroethene	ND	3.8
2,2-Dichloropropane	ND	3.8
Chloroform	ND	3.8
Bromochloromethane	ND	3.8
1,1,1-Trichloroethane	ND	3.8
1,1-Dichloropropene	ND	3.8
Carbon Tetrachloride	ND	3.8
1,2-Dichloroethane	ND	3.8
Benzene	ND	3.8
Trichloroethene	ND	3.8
1,2-Dichloropropane	ND	3.8
Bromodichloromethane	ND	3.8
Dibromomethane	ND	3.8
4-Methyl-2-Pentanone	ND	7.5
cis-1,3-Dichloropropene	ND	3.8
Toluene	ND	3.8
trans-1,3-Dichloropropene	ND	3.8
1,1,2-Trichloroethane	ND	3.8
2-Hexanone	ND	7.5
1,3-Dichloropropane	ND	3.8
Tetrachloroethene	ND	3.8

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B16-1.0-2.0	Diln Fac:	0.7541
Lab ID:	262098-001	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Dibromochloromethane	ND	3.8
1,2-Dibromoethane	ND	3.8
Chlorobenzene	ND	3.8
1,1,1,2-Tetrachloroethane	ND	3.8
Ethylbenzene	ND	3.8
m,p-Xylenes	ND	3.8
o-Xylene	ND	3.8
Styrene	ND	3.8
Bromoform	ND	3.8
Isopropylbenzene	ND	3.8
1,1,2,2-Tetrachloroethane	ND	3.8
1,2,3-Trichloropropane	ND	3.8
Propylbenzene	ND	3.8
Bromobenzene	ND	3.8
1,3,5-Trimethylbenzene	ND	3.8
2-Chlorotoluene	ND	3.8
4-Chlorotoluene	ND	3.8
tert-Butylbenzene	ND	3.8
1,2,4-Trimethylbenzene	ND	3.8
sec-Butylbenzene	ND	3.8
para-Isopropyl Toluene	ND	3.8
1,3-Dichlorobenzene	ND	3.8
1,4-Dichlorobenzene	ND	3.8
n-Butylbenzene	ND	3.8
1,2-Dichlorobenzene	ND	3.8
1,2-Dibromo-3-Chloropropane	ND	3.8
1,2,4-Trichlorobenzene	ND	3.8
Hexachlorobutadiene	ND	3.8
Naphthalene	ND	3.8
1,2,3-Trichlorobenzene	ND	3.8

Surrogate	%REC	Limits
Dibromofluoromethane	108	76-128
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	88	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B16-3.0-4.0	Diln Fac:	0.7837
Lab ID:	262098-002	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Freon 12	ND	7.8
Chloromethane	ND	7.8
Vinyl Chloride	ND	7.8
Bromomethane	ND	7.8
Chloroethane	ND	7.8
Trichlorofluoromethane	ND	3.9
Acetone	ND	16
Freon 113	ND	3.9
1,1-Dichloroethene	ND	3.9
Methylene Chloride	ND	16
Carbon Disulfide	ND	3.9
MTBE	ND	3.9
trans-1,2-Dichloroethene	ND	3.9
Vinyl Acetate	ND	39
1,1-Dichloroethane	ND	3.9
2-Butanone	ND	7.8
cis-1,2-Dichloroethene	ND	3.9
2,2-Dichloropropane	ND	3.9
Chloroform	ND	3.9
Bromochloromethane	ND	3.9
1,1,1-Trichloroethane	ND	3.9
1,1-Dichloropropene	ND	3.9
Carbon Tetrachloride	ND	3.9
1,2-Dichloroethane	ND	3.9
Benzene	ND	3.9
Trichloroethene	ND	3.9
1,2-Dichloropropane	ND	3.9
Bromodichloromethane	ND	3.9
Dibromomethane	ND	3.9
4-Methyl-2-Pentanone	ND	7.8
cis-1,3-Dichloropropene	ND	3.9
Toluene	ND	3.9
trans-1,3-Dichloropropene	ND	3.9
1,1,2-Trichloroethane	ND	3.9
2-Hexanone	ND	7.8
1,3-Dichloropropane	ND	3.9
Tetrachloroethene	ND	3.9

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B16-3.0-4.0	Diln Fac:	0.7837
Lab ID:	262098-002	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Dibromochloromethane	ND	3.9
1,2-Dibromoethane	ND	3.9
Chlorobenzene	ND	3.9
1,1,1,2-Tetrachloroethane	ND	3.9
Ethylbenzene	ND	3.9
m,p-Xylenes	ND	3.9
o-Xylene	ND	3.9
Styrene	ND	3.9
Bromoform	ND	3.9
Isopropylbenzene	ND	3.9
1,1,2,2-Tetrachloroethane	ND	3.9
1,2,3-Trichloropropane	ND	3.9
Propylbenzene	ND	3.9
Bromobenzene	ND	3.9
1,3,5-Trimethylbenzene	ND	3.9
2-Chlorotoluene	ND	3.9
4-Chlorotoluene	ND	3.9
tert-Butylbenzene	ND	3.9
1,2,4-Trimethylbenzene	ND	3.9
sec-Butylbenzene	ND	3.9
para-Isopropyl Toluene	ND	3.9
1,3-Dichlorobenzene	ND	3.9
1,4-Dichlorobenzene	ND	3.9
n-Butylbenzene	ND	3.9
1,2-Dichlorobenzene	ND	3.9
1,2-Dibromo-3-Chloropropane	ND	3.9
1,2,4-Trichlorobenzene	ND	3.9
Hexachlorobutadiene	ND	3.9
Naphthalene	ND	3.9
1,2,3-Trichlorobenzene	ND	3.9

Surrogate	%REC	Limits
Dibromofluoromethane	111	76-128
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	93	80-120
Bromofluorobenzene	89	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B11-1.0-2.0	Diln Fac:	0.7032
Lab ID:	262098-003	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Freon 12	ND	7.0
Chloromethane	ND	7.0
Vinyl Chloride	ND	7.0
Bromomethane	ND	7.0
Chloroethane	ND	7.0
Trichlorofluoromethane	ND	3.5
Acetone	ND	14
Freon 113	ND	3.5
1,1-Dichloroethene	ND	3.5
Methylene Chloride	ND	14
Carbon Disulfide	ND	3.5
MTBE	ND	3.5
trans-1,2-Dichloroethene	ND	3.5
Vinyl Acetate	ND	35
1,1-Dichloroethane	ND	3.5
2-Butanone	ND	7.0
cis-1,2-Dichloroethene	ND	3.5
2,2-Dichloropropane	ND	3.5
Chloroform	ND	3.5
Bromochloromethane	ND	3.5
1,1,1-Trichloroethane	ND	3.5
1,1-Dichloropropene	ND	3.5
Carbon Tetrachloride	ND	3.5
1,2-Dichloroethane	ND	3.5
Benzene	ND	3.5
Trichloroethene	ND	3.5
1,2-Dichloropropane	ND	3.5
Bromodichloromethane	ND	3.5
Dibromomethane	ND	3.5
4-Methyl-2-Pentanone	ND	7.0
cis-1,3-Dichloropropene	ND	3.5
Toluene	ND	3.5
trans-1,3-Dichloropropene	ND	3.5
1,1,2-Trichloroethane	ND	3.5
2-Hexanone	ND	7.0
1,3-Dichloropropane	ND	3.5
Tetrachloroethene	ND	3.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B11-1.0-2.0	Diln Fac:	0.7032
Lab ID:	262098-003	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Dibromochloromethane	ND	3.5
1,2-Dibromoethane	ND	3.5
Chlorobenzene	ND	3.5
1,1,1,2-Tetrachloroethane	ND	3.5
Ethylbenzene	ND	3.5
m,p-Xylenes	ND	3.5
o-Xylene	ND	3.5
Styrene	ND	3.5
Bromoform	ND	3.5
Isopropylbenzene	ND	3.5
1,1,2,2-Tetrachloroethane	ND	3.5
1,2,3-Trichloropropane	ND	3.5
Propylbenzene	ND	3.5
Bromobenzene	ND	3.5
1,3,5-Trimethylbenzene	ND	3.5
2-Chlorotoluene	ND	3.5
4-Chlorotoluene	ND	3.5
tert-Butylbenzene	ND	3.5
1,2,4-Trimethylbenzene	ND	3.5
sec-Butylbenzene	ND	3.5
para-Isopropyl Toluene	ND	3.5
1,3-Dichlorobenzene	ND	3.5
1,4-Dichlorobenzene	ND	3.5
n-Butylbenzene	ND	3.5
1,2-Dichlorobenzene	ND	3.5
1,2-Dibromo-3-Chloropropane	ND	3.5
1,2,4-Trichlorobenzene	ND	3.5
Hexachlorobutadiene	ND	3.5
Naphthalene	ND	3.5
1,2,3-Trichlorobenzene	ND	3.5

Surrogate	%REC	Limits
Dibromofluoromethane	110	76-128
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	89	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B12-1.0-2.0	Diln Fac:	0.6859
Lab ID:	262098-005	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Freon 12	ND	6.9
Chloromethane	ND	6.9
Vinyl Chloride	ND	6.9
Bromomethane	ND	6.9
Chloroethane	ND	6.9
Trichlorofluoromethane	ND	3.4
Acetone	ND	14
Freon 113	ND	3.4
1,1-Dichloroethene	ND	3.4
Methylene Chloride	ND	14
Carbon Disulfide	ND	3.4
MTBE	ND	3.4
trans-1,2-Dichloroethene	ND	3.4
Vinyl Acetate	ND	34
1,1-Dichloroethane	ND	3.4
2-Butanone	ND	6.9
cis-1,2-Dichloroethene	ND	3.4
2,2-Dichloropropane	ND	3.4
Chloroform	ND	3.4
Bromochloromethane	ND	3.4
1,1,1-Trichloroethane	ND	3.4
1,1-Dichloropropene	ND	3.4
Carbon Tetrachloride	ND	3.4
1,2-Dichloroethane	ND	3.4
Benzene	ND	3.4
Trichloroethene	ND	3.4
1,2-Dichloropropane	ND	3.4
Bromodichloromethane	ND	3.4
Dibromomethane	ND	3.4
4-Methyl-2-Pentanone	ND	6.9
cis-1,3-Dichloropropene	ND	3.4
Toluene	ND	3.4
trans-1,3-Dichloropropene	ND	3.4
1,1,2-Trichloroethane	ND	3.4
2-Hexanone	ND	6.9
1,3-Dichloropropane	ND	3.4
Tetrachloroethene	ND	3.4

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B12-1.0-2.0	Diln Fac:	0.6859
Lab ID:	262098-005	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Dibromochloromethane	ND	3.4
1,2-Dibromoethane	ND	3.4
Chlorobenzene	ND	3.4
1,1,1,2-Tetrachloroethane	ND	3.4
Ethylbenzene	ND	3.4
m,p-Xylenes	ND	3.4
o-Xylene	ND	3.4
Styrene	ND	3.4
Bromoform	ND	3.4
Isopropylbenzene	ND	3.4
1,1,2,2-Tetrachloroethane	ND	3.4
1,2,3-Trichloropropane	ND	3.4
Propylbenzene	ND	3.4
Bromobenzene	ND	3.4
1,3,5-Trimethylbenzene	ND	3.4
2-Chlorotoluene	ND	3.4
4-Chlorotoluene	ND	3.4
tert-Butylbenzene	ND	3.4
1,2,4-Trimethylbenzene	ND	3.4
sec-Butylbenzene	ND	3.4
para-Isopropyl Toluene	ND	3.4
1,3-Dichlorobenzene	ND	3.4
1,4-Dichlorobenzene	ND	3.4
n-Butylbenzene	ND	3.4
1,2-Dichlorobenzene	ND	3.4
1,2-Dibromo-3-Chloropropane	ND	3.4
1,2,4-Trichlorobenzene	ND	3.4
Hexachlorobutadiene	ND	3.4
Naphthalene	ND	3.4
1,2,3-Trichlorobenzene	ND	3.4

Surrogate	%REC	Limits
Dibromofluoromethane	109	76-128
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	89	79-128

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B13-1.0-2.0	Diln Fac:	0.8834
Lab ID:	262098-007	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Freon 12	ND	8.8
Chloromethane	ND	8.8
Vinyl Chloride	ND	8.8
Bromomethane	ND	8.8
Chloroethane	ND	8.8
Trichlorofluoromethane	ND	4.4
Acetone	ND	18
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.8
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	ND	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.8
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.8
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	1098.007.01.001	Analysis:	EPA 8260B
Field ID:	B13-1.0-2.0	Diln Fac:	0.8834
Lab ID:	262098-007	Batch#:	217040
Matrix:	Soil	Sampled:	10/29/14
Units:	ug/Kg	Received:	10/30/14
Basis:	as received	Analyzed:	11/03/14

Analyte	Result	RL
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	111	76-128
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	93	80-120
Bromofluorobenzene	88	79-128

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	1098.007.01.001	Analysis: EPA 8260B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC764062	Batch#: 217040
Matrix:	Soil	Analyzed: 11/03/14
Units:	ug/Kg	

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	27.90	112	68-135
Benzene	25.00	26.36	105	80-127
Trichloroethene	25.00	26.46	106	77-129
Toluene	25.00	25.41	102	79-125
Chlorobenzene	25.00	27.21	109	78-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	76-128
1,2-Dichloroethane-d4	91	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	88	79-128

Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	1098.007.01.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC764063	Batch#: 217040
Matrix:	Soil	Analyzed: 11/03/14
Units:	ug/Kg	

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	1098.007.01.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC764063	Batch#: 217040
Matrix:	Soil	Analyzed: 11/03/14
Units:	ug/Kg	

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	101	76-128
1,2-Dichloroethane-d4	88	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	90	79-128

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	1098.007.01.001	Analysis: EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#: 217040
MSS Lab ID:	262105-002	Sampled: 10/30/14
Matrix:	Soil	Received: 10/30/14
Units:	ug/Kg	Analyzed: 11/03/14
Basis:	as received	

Type: MS Diln Fac: 0.9747
 Lab ID: QC764080

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5916	48.73	47.06	97	46-138
Benzene	<0.6892	48.73	43.08	88	51-125
Trichloroethene	<0.7179	48.73	42.99	88	41-146
Toluene	<0.7549	48.73	39.99	82	45-123
Chlorobenzene	<0.6189	48.73	41.25	85	39-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	76-128
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	93	80-120
Bromofluorobenzene	88	79-128

Type: MSD Diln Fac: 0.9823
 Lab ID: QC764081

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.12	48.47	99	46-138	2	51
Benzene	49.12	45.11	92	51-125	4	46
Trichloroethene	49.12	44.93	91	41-146	4	55
Toluene	49.12	41.78	85	45-123	4	59
Chlorobenzene	49.12	43.68	89	39-120	5	54

Surrogate	%REC	Limits
Dibromofluoromethane	103	76-128
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	93	80-120
Bromofluorobenzene	90	79-128

RPD= Relative Percent Difference

Organochlorine Pesticides		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B16-1.0-2.0	Batch#: 216971
Lab ID:	262098-001	Sampled: 10/29/14
Matrix:	Soil	Received: 10/30/14
Units:	ug/Kg	Prepared: 10/30/14
Basis:	as received	Analyzed: 11/01/14
Diln Fac:	1.000	

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	21	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND	3.3
4,4'-DDT	7.7	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	61

Surrogate	%REC	Limits
TCMX	72	42-134
Decachlorobiphenyl	87	29-122

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B11-1.0-2.0	Batch#: 216971
Lab ID:	262098-003	Sampled: 10/29/14
Matrix:	Soil	Received: 10/30/14
Units:	ug/Kg	Prepared: 10/30/14
Basis:	as received	

Cleanup Method: EPA 3620B

Analyte	Result	RL	Diln Fac	Analyzed
alpha-BHC	ND	1.7	1.000	11/01/14
beta-BHC	ND	1.7	1.000	11/01/14
gamma-BHC	ND	1.7	1.000	11/01/14
delta-BHC	ND	1.7	1.000	11/01/14
Heptachlor	ND	1.7	1.000	11/01/14
Aldrin	ND	1.7	1.000	11/01/14
Heptachlor epoxide	ND	1.7	1.000	11/01/14
Endosulfan I	ND	1.7	1.000	11/01/14
Dieldrin	ND	1.7	1.000	11/01/14
4,4'-DDE	670 C	33	10.00	11/03/14
Endrin	27 C	3.3	1.000	11/01/14
Endosulfan II	ND	3.3	1.000	11/01/14
Endosulfan sulfate	ND	3.3	1.000	11/01/14
4,4'-DDD	6.1 C #	3.3	1.000	11/01/14
Endrin aldehyde	ND	3.3	1.000	11/01/14
4,4'-DDT	130	3.3	1.000	11/01/14
alpha-Chlordane	5.4	1.7	1.000	11/01/14
gamma-Chlordane	ND	1.7	1.000	11/01/14
Methoxychlor	ND	17	1.000	11/01/14
Toxaphene	ND	60	1.000	11/01/14

Surrogate	%REC	Limits	Diln Fac	Analyzed
TCMX	93	42-134	1.000	11/01/14
Decachlorobiphenyl	91	29-122	1.000	11/01/14

#= CCV drift outside limits; average CCV drift within limits per method requirements

C= Presence confirmed, but RPD between columns exceeds 40%

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B12-1.0-2.0	Batch#: 216971
Lab ID:	262098-005	Sampled: 10/29/14
Matrix:	Soil	Received: 10/30/14
Units:	ug/Kg	Prepared: 10/30/14
Basis:	as received	Analyzed: 11/01/14
Diln Fac:	10.00	

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	17
beta-BHC	ND	17
gamma-BHC	ND	17
delta-BHC	ND	17
Heptachlor	ND	17
Aldrin	ND	17
Heptachlor epoxide	ND	17
Endosulfan I	ND	17
Dieldrin	ND	17
4,4'-DDE	460	33
Endrin	ND	33
Endosulfan II	ND	33
Endosulfan sulfate	ND	33
4,4'-DDD	ND	33
Endrin aldehyde	ND	33
4,4'-DDT	100	33
alpha-Chlordane	ND	17
gamma-Chlordane	ND	17
Methoxychlor	ND	170
Toxaphene	ND	600

Surrogate	%REC	Limits
TCMX	DO	42-134
Decachlorobiphenyl	DO	29-122

DO= Diluted Out
 ND= Not Detected
 RL= Reporting Limit

Organochlorine Pesticides

Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	B13-1.0-2.0	Batch#:	217113
Lab ID:	262098-007	Sampled:	10/29/14
Matrix:	Soil	Received:	10/30/14
Units:	ug/Kg	Prepared:	11/04/14
Basis:	as received	Analyzed:	11/05/14
Diln Fac:	5.000		

Analyte	Result	RL
alpha-BHC	ND	8.5
beta-BHC	ND	8.5
gamma-BHC	ND	8.5
delta-BHC	ND	8.5
Heptachlor	ND	8.5
Aldrin	ND	8.5
Heptachlor epoxide	ND	8.5
Endosulfan I	ND	8.5
Dieldrin	ND	8.5
4,4'-DDE	54	17
Endrin	ND	17
Endosulfan II	ND	17
Endosulfan sulfate	ND	17
4,4'-DDD	ND	17
Endrin aldehyde	ND	17
4,4'-DDT	ND	17
alpha-Chlordane	ND	8.5
gamma-Chlordane	ND	8.5
Methoxychlor	ND	85
Toxaphene	ND	300

Surrogate	%REC	Limits
TCMX	93	42-134
Decachlorobiphenyl	86	29-122

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC763826	Batch#: 216971
Matrix:	Soil	Prepared: 10/30/14
Units:	ug/Kg	Analyzed: 10/31/14

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND #	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND #	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	79	42-134
Decachlorobiphenyl	76	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC763827	Batch#: 216971
Matrix:	Soil	Prepared: 10/30/14
Units:	ug/Kg	Analyzed: 10/31/14

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.16	8.724	66	46-120
Heptachlor	13.16	8.756	67	41-124
Aldrin	13.16	8.759	67	48-122
Dieldrin	13.16	9.881	75	39-142
Endrin	13.16	8.476 #	64	45-138
4,4'-DDT	13.16	12.14	92	32-145

Surrogate	%REC	Limits
TCMX	69	42-134
Decachlorobiphenyl	70	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

Batch QC Report

Organochlorine Pesticides		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC764363	Batch#: 217113
Matrix:	Soil	Prepared: 11/04/14
Units:	ug/Kg	Analyzed: 11/05/14

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	83	42-134
Decachlorobiphenyl	68	29-122

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC764367	Batch#: 217113
Matrix:	Soil	Prepared: 11/04/14
Units:	ug/Kg	Analyzed: 11/05/14

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.20	10.68	81	46-120
Heptachlor	13.20	11.32	86	41-124
Aldrin	13.20	11.30	86	48-122
Dieldrin	13.20	11.83	90	39-142
Endrin	13.20	17.49	132	45-138
4,4'-DDT	13.20	12.64	96	32-145

Surrogate	%REC	Limits
TCMX	84	42-134
Decachlorobiphenyl	74	29-122

Batch QC Report

Organochlorine Pesticides			
Lab #:	262098	Location:	39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	ZZZZZZZZZZ	Batch#:	217113
MSS Lab ID:	262184-033	Sampled:	10/29/14
Matrix:	Soil	Received:	10/30/14
Units:	ug/Kg	Prepared:	11/04/14
Basis:	as received	Analyzed:	11/05/14
Diln Fac:	1.000		

Type: MS Lab ID: QC764368

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	<0.2185	13.43	9.865	73	42-136
Heptachlor	<0.1937	13.43	10.33	77	40-144
Aldrin	<0.2071	13.43	9.734	72	45-143
Dieldrin	<0.4025	13.43	10.96	82	47-145
Endrin	<0.5667	13.43	11.79	88	46-150
4,4'-DDT	0.8424	13.43	11.69	81	30-157

Surrogate	%REC	Limits
TCMX	72	42-134
Decachlorobiphenyl	68	29-122

Type: MSD Lab ID: QC764369

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	13.48	9.083	67	42-136	9	40
Heptachlor	13.48	9.547	71	40-144	8	46
Aldrin	13.48	9.158	68	45-143	6	41
Dieldrin	13.48	9.578	71	47-145	14	36
Endrin	13.48	10.12	75	46-150	16	41
4,4'-DDT	13.48	10.88	75	30-157	7	52

Surrogate	%REC	Limits
TCMX	72	42-134
Decachlorobiphenyl	60	29-122

RPD= Relative Percent Difference

Arsenic		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1098.007.01.001	Analysis: EPA 6010B
Analyte:	Arsenic	Batch#: 217013
Matrix:	Soil	Sampled: 10/29/14
Units:	mg/Kg	Received: 10/30/14
Basis:	as received	Prepared: 11/01/14
Diln Fac:	1.000	Analyzed: 11/02/14

Field ID	Type	Lab ID	Result	RL
B16-1.0-2.0	SAMPLE	262098-001	4.7	0.24
B11-1.0-2.0	SAMPLE	262098-003	4.3	0.25
B12-1.0-2.0	SAMPLE	262098-005	4.3	0.25
B13-1.0-2.0	SAMPLE	262098-007	5.6	0.23
	BLANK	QC763959	ND	0.25

ND= Not Detected
 RL= Reporting Limit

Lead		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1098.007.01.001	Analysis: EPA 6010B
Analyte:	Lead	Batch#: 217013
Matrix:	Soil	Sampled: 10/29/14
Units:	mg/Kg	Received: 10/30/14
Basis:	as received	Prepared: 11/01/14
Diln Fac:	1.000	Analyzed: 11/02/14

Field ID	Type	Lab ID	Result	RL
B16-1.0-2.0	SAMPLE	262098-001	5.3	0.24
B11-1.0-2.0	SAMPLE	262098-003	5.3	0.25
B12-1.0-2.0	SAMPLE	262098-005	7.7	0.25
B13-1.0-2.0	SAMPLE	262098-007	11	0.23
	BLANK	QC763959	ND	0.25

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Arsenic		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1098.007.01.001	Analysis: EPA 6010B
Analyte:	Arsenic	Diln Fac: 5.000
Field ID:	ZZZZZZZZZZ	Batch#: 217013
MSS Lab ID:	262103-001	Sampled: 10/29/14
Matrix:	Soil	Received: 10/29/14
Units:	mg/Kg	Prepared: 11/01/14
Basis:	as received	Analyzed: 11/02/14

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC763960		50.00	52.69	105	80-120		
BSD	QC763961		50.00	50.22	100	80-120	5	20
MS	QC763962	3.633	48.54	58.58	113	72-120		
MSD	QC763963		45.87	52.43	106	72-120	6	30

RPD= Relative Percent Difference

Batch QC Report

Lead		
Lab #:	262098	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	1098.007.01.001	Analysis: EPA 6010B
Analyte:	Lead	Diln Fac: 5.000
Field ID:	ZZZZZZZZZZ	Batch#: 217013
MSS Lab ID:	262103-001	Sampled: 10/29/14
Matrix:	Soil	Received: 10/29/14
Units:	mg/Kg	Prepared: 11/01/14
Basis:	as received	Analyzed: 11/02/14

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC763960		50.00	50.66	101	80-120		
BSD	QC763961		50.00	48.28	97	80-120	5	20
MS	QC763962	6.051	48.54	64.19	120	52-122		
MSD	QC763963		45.87	56.45	110	52-122	8	49

RPD= Relative Percent Difference



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

**Laboratory Job Number 262486
ANALYTICAL REPORT**

PES Environmental, Inc. 1682 Novato Boulevard Novato, CA 94947	Project : 1098.007.01.001 Location : 39155 & 39183 State St., Fremont Level : II
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<u>Sample ID</u> B3-3.0-4.0	<u>Lab ID</u> 262486-001
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This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Will S Rice
Project Manager
will.rice@ctberk.com

Date: 11/19/2014

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number: 262486
Client: PES Environmental, Inc.
Project: 1098.007.01.001
Location: 39155 & 39183 State St., Fremont
Request Date: 11/13/14
Samples Received: 10/27/14

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 11/13/14. The sample was received cold and intact.

Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. All samples underwent florisil cleanup using EPA Method 3620C. Low recovery was observed for 4,4'-DDT in the MSD of B8-3.0-4.0 (lab # 262487-003); the LCS was within limits. High recovery was also observed for 4,4'-DDT in the MS of B8-3.0-4.0 (lab # 262487-003); the LCS was within limits. High RPD was also observed for 4,4'-DDT in the MS/MSD of B8-3.0-4.0 (lab # 262487-003). 262486-001 was prepared outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

Subject: RE: 1098.007.01.001 - C&T Login Summary (262033)
From: "Justin J. Patterson" <jpatterson@pesenv.com>
Date: 11/13/2014 10:14 AM
To: Will S Rice <will.rice@ctberk.com>

262486

From: Will S Rice [mailto:will.rice@ctberk.com]
Sent: Wednesday, October 29, 2014 3:02 PM
To: Justin J. Patterson; Carl J. Michelsen; Gavin M. Creps
Subject: 1098.007.01.001 - C&T Login Summary (262033)

Will

Please run the following sample (on hold) for pesticides on a standard TAT:

B3-3.0-4.0

C&T Login Summary for 262033

Project: 1098.007.01.001 Site: 39155 & 39183 State St., Fremont Lab Login #: 262033 Report Level: II Report Due: 11/03/14 PO#: C&T Proj Mgr: Will S Rice	Report To: PES Environmental, Inc. 1682 Novato Boulevard Suite 100 Novato, CA 94947 ATTN: Carl Michelsen (415) 899-1600	Bill To: PES Environmental 1682 Novato Boulevard Suite 100 Novato, CA 94947 ATTN: Accounts Payable (415) 899-1600
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Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
B1-1.0-2.0	001	10/27	10/27	Soil	6010-AS		
				Soil	6010-PB		
				Soil	8081		
				Soil	E8260		
				Soil	ICP PREP		
B1-3.0-4.0	002	10/27	10/27	Soil	HOLD		
B3-1.0-2.0	003	10/27	10/27	Soil	6010-AS		
				Soil	6010-PB		
				Soil	8081		
				Soil	E8260		
				Soil	ICP PREP		
B3-3.0-4.0	004	10/27	10/27	Soil	HOLD		
B5-1.0-2.0	005	10/27	10/27	Soil	6010-AS		
				Soil	6010-PB		

				Soil	8081
				Soil	E8260
				Soil	ICP PREP
B5-3.0-4.0	006	10/27	10/27		
				Soil	E8260

Email compiled and sent 10/29/14 03:02 PM.

COOLER RECEIPT CHECKLIST



Login # 262033 Date Received 10/27/14 Number of coolers 1
Client PES Project 1098-007-01-001

Date Opened 10/27 By (print) [Signature] (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

- 1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info
2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date
2B. Were custody seals intact upon arrival? YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe)
Bubble Wrap Foam blocks Bags None
Cloth material Cardboard Styrofoam Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C
Type of ice used: Wet Blue/Gel None Temp(°C)
Samples Received on ice & cold without a temperature blank; temp. taken with IR gun
Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer? 1950
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES NO
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS
[Blank lines for handwritten notes]

Detections Summary for 262486

Results for any subcontracted analyses are not included in this summary.

Client : PES Environmental, Inc.
 Project : 1098.007.01.001
 Location : 39155 & 39183 State St., Fremont

Client Sample ID : B3-3.0-4.0 Laboratory Sample ID : 262486-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Heptachlor epoxide	1.8	b	1.7	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDE	28	#,b	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B
4,4'-DDT	18	#,b	3.3	ug/Kg	As Recd	1.000	EPA 8081A	EPA 3550B

= CCV drift outside limits; average CCV drift within limits per method requirements
 b = See narrative

Organochlorine Pesticides		
Lab #:	262486	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B3-3.0-4.0	Batch#: 217461
Lab ID:	262486-001	Sampled: 10/27/14
Matrix:	Soil	Received: 10/27/14
Units:	ug/Kg	Prepared: 11/13/14
Basis:	as received	Analyzed: 11/14/14
Diln Fac:	1.000	

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND b	1.7
beta-BHC	ND b	1.7
gamma-BHC	ND b	1.7
delta-BHC	ND b	1.7
Heptachlor	ND b	1.7
Aldrin	ND b	1.7
Heptachlor epoxide	1.8 b	1.7
Endosulfan I	ND b	1.7
Dieldrin	ND b	1.7
4,4'-DDE	28 # b	3.3
Endrin	ND b	3.3
Endosulfan II	ND b	3.3
Endosulfan sulfate	ND b	3.3
4,4'-DDD	ND b	3.3
Endrin aldehyde	ND b	3.3
4,4'-DDT	18 # b	3.3
alpha-Chlordane	ND b	1.7
gamma-Chlordane	ND b	1.7
Methoxychlor	ND b	17
Toxaphene	ND b	60

Surrogate	%REC	Limits
TCMX	85 b	42-134
Decachlorobiphenyl	113 b	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

b= See narrative

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262486	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC765760	Batch#: 217461
Matrix:	Soil	Prepared: 11/13/14
Units:	ug/Kg	Analyzed: 11/14/14

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	98	42-134
Decachlorobiphenyl	77	29-122

 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262486	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC765761	Batch#: 217461
Matrix:	Soil	Prepared: 11/13/14
Units:	ug/Kg	Analyzed: 11/14/14

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.14	10.56	80	46-120
Heptachlor	13.14	11.06	84	41-124
Aldrin	13.14	10.67	81	48-122
Dieldrin	13.14	12.50 #	95	39-142
Endrin	13.14	11.85 #	90	45-138
4,4'-DDT	13.14	11.65 #	89	32-145

Surrogate	%REC	Limits
TCMX	85	42-134
Decachlorobiphenyl	71	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

Batch QC Report

Organochlorine Pesticides		
Lab #:	262486	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B8-3.0-4.0	Batch#: 217461
MSS Lab ID:	262487-003	Sampled: 10/28/14
Matrix:	Soil	Received: 10/28/14
Units:	ug/Kg	Prepared: 11/13/14
Basis:	as received	Analyzed: 11/14/14
Diln Fac:	5.000	

Type: MS
Lab ID: QC765762

Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	1.278	13.27	14.96	103	42-136
Heptachlor	3.041	13.27	14.75	88	40-144
Aldrin	<1.129	13.27	12.93	97	45-143
Dieldrin	9.290	13.27	21.60 #	93	47-145
Endrin	14.15	13.27	25.16 #	83	46-150
4,4'-DDT	19.13	13.27	47.33 #	212 *	30-157

Surrogate	%REC	Limits
TCMX	97	42-134
Decachlorobiphenyl	96	29-122

Type: MSD
Lab ID: QC765763

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	13.29	14.68	101	42-136	2	40
Heptachlor	13.29	19.32	122	40-144	27	46
Aldrin	13.29	13.82	104	45-143	7	41
Dieldrin	13.29	23.25 #	105	47-145	7	36
Endrin	13.29	29.89 #	118	46-150	17	41
4,4'-DDT	13.29	16.34 #	-21 *	30-157	97 *	52

Surrogate	%REC	Limits
TCMX	105	42-134
Decachlorobiphenyl	106	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



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Analytical Laboratories, Since 1878



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

**Laboratory Job Number 262487
ANALYTICAL REPORT**

PES Environmental, Inc.
1682 Novato Boulevard
Novato, CA 94947

Project : 1098.007.01.001
Location : State Street, Fremont
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
B6-3.0-4.0	262487-001
B7-3.0-4.0	262487-002
B8-3.0-4.0	262487-003

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Will S Rice
Project Manager
will.rice@ctberk.com

Date: 11/19/2014

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number: 262487
Client: PES Environmental, Inc.
Project: 1098.007.01.001
Location: State Street, Fremont
Request Date: 11/13/14
Samples Received: 10/28/14

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 11/13/14. The samples were received cold and intact.

Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. All samples underwent florisil cleanup using EPA Method 3620C. Low recovery was observed for 4,4'-DDT in the MSD of B8-3.0-4.0 (lab # 262487-003); the LCS was within limits. High recovery was also observed for 4,4'-DDT in the MS of B8-3.0-4.0 (lab # 262487-003); the LCS was within limits. High RPD was also observed for 4,4'-DDT in the MS/MSD of B8-3.0-4.0 (lab # 262487-003). 262487-001, 262487-002, and 262487-003 were prepared outside of hold time; affected data was qualified with "b". B8-3.0-4.0 (lab # 262487-003) was diluted due to the color of the sample extract. No other analytical problems were encountered.

262487

Subject: RE: 1098.007.01.001 - C&T Login Summary (262069)
From: "Justin J. Patterson" <jpatterson@pesenv.com>
Date: 11/13/2014 10:15 AM
To: Will S Rice <will.rice@ctberk.com>

Will

Please run the following sample (on hold) for pesticides on a standard TAT:

- B6-3.0-4.0
- B7-3.0-4.0
- B8-3.0-4.0

From: Will S Rice [mailto:will.rice@ctberk.com]
Sent: Wednesday, October 29, 2014 3:03 PM
To: Justin J. Patterson; Carl J. Michelsen; Gavin M. Creps
Subject: 1098.007.01.001 - C&T Login Summary (262069)

8260 analysis added

C&T Login Summary for 262069

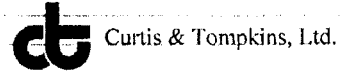
<p>Project: 1098.007.01.001 Site: State Street, Fremont Lab Login #: 262069 Report Level: II Report Due: 11/04/14 PO#: C&T Proj Mgr: Will S Rice</p>	<p>Report To: PES Environmental, Inc. 1682 Novato Boulevard Suite 100 Novato, CA 94947 ATTN: Carl Michelsen (415) 899-1600</p>	<p>Bill To: PES Environmental 1682 Novato Boulevard Suite 100 Novato, CA 94947 ATTN: Accounts Payable (415) 899-1600</p>
---	--	--

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
B6-1.0-2.0	001	10/28	10/28	Soil	6010-AS		
				Soil	6010-PB		
				Soil	8081		
				Soil	E8260		
				Soil	ICP PREP		
B6-3.0-4.0	002	10/28	10/28	Soil	E8260		
B7-1.0-2.0	003	10/28	10/28	Soil	6010-AS		
				Soil	6010-PB		

				Soil	8081
				Soil	E8260
				Soil	ICP PREP
B7-3.0-4.0	004	10/28	10/28		
				Soil	HOLD
B8-1.0-2.0	005	10/28	10/28		
				Soil	6010-AS
				Soil	6010-PB
				Soil	8081
				Soil	E8260
				Soil	ICP PREP
B8-3.0-4.0	006	10/28	10/28		
				Soil	HOLD

Email compiled and sent 10/29/14 03:02 PM.

COOLER RECEIPT CHECKLIST



Login # 262069 Date Received 10/28/14 Number of coolers 1
 Client PES Project 1098.007-01-001

Date Opened 10/28 By (print) [Signature] (sign) [Signature]
 Date Logged in 10/28 By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? YES NO

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

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C
 Type of ice used: Wet Blue/Gel None Temp(°C) 2-8°

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun
 Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
 If YES, what time were they transferred to freezer? 10/28/14 @ 21:21

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? _____ YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A

17. Did you document your preservative check? _____ YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

21. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Detections Summary for 262487

Results for any subcontracted analyses are not included in this summary.

Client : PES Environmental, Inc.
 Project : 1098.007.01.001
 Location : State Street, Fremont

Client Sample ID : B6-3.0-4.0 Laboratory Sample ID : 262487-001

No Detections

Client Sample ID : B7-3.0-4.0 Laboratory Sample ID : 262487-002

No Detections

Client Sample ID : B8-3.0-4.0 Laboratory Sample ID : 262487-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Dieldrin	9.3	#,b	8.5	ug/Kg	As Recd	5.000	EPA 8081A	EPA 3550B
4,4'-DDE	260	#,b	17	ug/Kg	As Recd	5.000	EPA 8081A	EPA 3550B
4,4'-DDT	19	C,b	17	ug/Kg	As Recd	5.000	EPA 8081A	EPA 3550B

= CCV drift outside limits; average CCV drift within limits per method requirement
 C = Presence confirmed, but RPD between columns exceeds 40%
 b = See narrative

Organochlorine Pesticides			
Lab #:	262487	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	B6-3.0-4.0	Batch#:	217461
Lab ID:	262487-001	Sampled:	10/28/14
Matrix:	Soil	Received:	10/28/14
Units:	ug/Kg	Prepared:	11/13/14
Basis:	as received	Analyzed:	11/14/14
Diln Fac:	1.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND b	1.7
beta-BHC	ND b	1.7
gamma-BHC	ND b	1.7
delta-BHC	ND b	1.7
Heptachlor	ND b	1.7
Aldrin	ND b	1.7
Heptachlor epoxide	ND b	1.7
Endosulfan I	ND b	1.7
Dieldrin	ND b	1.7
4,4'-DDE	ND b	3.3
Endrin	ND b	3.3
Endosulfan II	ND b	3.3
Endosulfan sulfate	ND b	3.3
4,4'-DDD	ND b	3.3
Endrin aldehyde	ND b	3.3
4,4'-DDT	ND b	3.3
alpha-Chlordane	ND b	1.7
gamma-Chlordane	ND b	1.7
Methoxychlor	ND b	17
Toxaphene	ND b	60

Surrogate	%REC	Limits
TCMX	82 b	42-134
Decachlorobiphenyl	95 b	29-122

b= See narrative

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	262487	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	B7-3.0-4.0	Batch#:	217461
Lab ID:	262487-002	Sampled:	10/28/14
Matrix:	Soil	Received:	10/28/14
Units:	ug/Kg	Prepared:	11/13/14
Basis:	as received	Analyzed:	11/14/14
Diln Fac:	1.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND b	1.7
beta-BHC	ND b	1.7
gamma-BHC	ND b	1.7
delta-BHC	ND b	1.7
Heptachlor	ND b	1.7
Aldrin	ND b	1.7
Heptachlor epoxide	ND b	1.7
Endosulfan I	ND b	1.7
Dieldrin	ND b	1.7
4,4'-DDE	ND b	3.3
Endrin	ND b	3.3
Endosulfan II	ND b	3.3
Endosulfan sulfate	ND b	3.3
4,4'-DDD	ND b	3.3
Endrin aldehyde	ND b	3.3
4,4'-DDT	ND b	3.3
alpha-Chlordane	ND b	1.7
gamma-Chlordane	ND b	1.7
Methoxychlor	ND b	17
Toxaphene	ND b	60

Surrogate	%REC	Limits
TCMX	97 b	42-134
Decachlorobiphenyl	93 b	29-122

b= See narrative

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides			
Lab #:	262487	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	B8-3.0-4.0	Batch#:	217461
Lab ID:	262487-003	Sampled:	10/28/14
Matrix:	Soil	Received:	10/28/14
Units:	ug/Kg	Prepared:	11/13/14
Basis:	as received	Analyzed:	11/14/14
Diln Fac:	5.000		

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND b	8.5
beta-BHC	ND b	8.5
gamma-BHC	ND b	8.5
delta-BHC	ND b	8.5
Heptachlor	ND b	8.5
Aldrin	ND b	8.5
Heptachlor epoxide	ND b	8.5
Endosulfan I	ND b	8.5
Dieldrin	9.3 # b	8.5
4,4'-DDE	260 # b	17
Endrin	ND b	17
Endosulfan II	ND b	17
Endosulfan sulfate	ND b	17
4,4'-DDD	ND b	17
Endrin aldehyde	ND b	17
4,4'-DDT	19 C b	17
alpha-Chlordane	ND b	8.5
gamma-Chlordane	ND b	8.5
Methoxychlor	ND b	85
Toxaphene	ND b	300

Surrogate	%REC	Limits
TCMX	102 b	42-134
Decachlorobiphenyl	87 b	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

C= Presence confirmed, but RPD between columns exceeds 40%

b= See narrative

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides			
Lab #:	262487	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC765760	Batch#:	217461
Matrix:	Soil	Prepared:	11/13/14
Units:	ug/Kg	Analyzed:	11/14/14

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	98	42-134
Decachlorobiphenyl	77	29-122

 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides			
Lab #:	262487	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC765761	Batch#:	217461
Matrix:	Soil	Prepared:	11/13/14
Units:	ug/Kg	Analyzed:	11/14/14

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.14	10.56	80	46-120
Heptachlor	13.14	11.06	84	41-124
Aldrin	13.14	10.67	81	48-122
Dieldrin	13.14	12.50 #	95	39-142
Endrin	13.14	11.85 #	90	45-138
4,4'-DDT	13.14	11.65 #	89	32-145

Surrogate	%REC	Limits
TCMX	85	42-134
Decachlorobiphenyl	71	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

Batch QC Report

Organochlorine Pesticides			
Lab #:	262487	Location:	State Street, Fremont
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	1098.007.01.001	Analysis:	EPA 8081A
Field ID:	B8-3.0-4.0	Batch#:	217461
MSS Lab ID:	262487-003	Sampled:	10/28/14
Matrix:	Soil	Received:	10/28/14
Units:	ug/Kg	Prepared:	11/13/14
Basis:	as received	Analyzed:	11/14/14
Diln Fac:	5.000		

Type: MS
Lab ID: QC765762

Cleanup Method: EPA 3620B

Analyte	MSS Result	Spiked	Result	%REC	Limits
gamma-BHC	1.278	13.27	14.96	103	42-136
Heptachlor	3.041	13.27	14.75	88	40-144
Aldrin	<1.129	13.27	12.93	97	45-143
Dieldrin	9.290	13.27	21.60 #	93	47-145
Endrin	14.15	13.27	25.16 #	83	46-150
4,4'-DDT	19.13	13.27	47.33 #	212 *	30-157

Surrogate	%REC	Limits
TCMX	97	42-134
Decachlorobiphenyl	96	29-122

Type: MSD
Lab ID: QC765763

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
gamma-BHC	13.29	14.68	101	42-136	2	40
Heptachlor	13.29	19.32	122	40-144	27	46
Aldrin	13.29	13.82	104	45-143	7	41
Dieldrin	13.29	23.25 #	105	47-145	7	36
Endrin	13.29	29.89 #	118	46-150	17	41
4,4'-DDT	13.29	16.34 #	-21 *	30-157	97 *	52

Surrogate	%REC	Limits
TCMX	105	42-134
Decachlorobiphenyl	106	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 262490
ANALYTICAL REPORT

PES Environmental, Inc. 1682 Novato Boulevard Novato, CA 94947	Project : 1098.007.01.001 Location : 39155 & 39183 State St., Fremont Level : II
--	--

<u>Sample ID</u>	<u>Lab ID</u>
B11-3.0-4.0	262490-001
B12-3.0-4.0	262490-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 11/19/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number: 262490
Client: PES Environmental, Inc.
Project: 1098.007.01.001
Location: 39155 & 39183 State St., Fremont
Request Date: 11/13/14
Samples Received: 10/30/14

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 11/13/14. The samples were received cold and intact.

Pesticides (EPA 8081A):

All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. All samples underwent florisol cleanup using EPA Method 3620C. Low recovery was observed for 4,4'-DDT in the MSD of B8-3.0-4.0 (lab # 262487-003); the LCS was within limits. High recovery was also observed for 4,4'-DDT in the MS of B8-3.0-4.0 (lab # 262487-003); the LCS was within limits, and this analyte was not detected at or above the RL in the associated samples. High RPD was also observed for 4,4'-DDT in the MS/MSD of B8-3.0-4.0 (lab # 262487-003); this analyte was not detected at or above the RL in the associated samples. 262490-001 and 262490-002 were prepared outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

262098

Subject: RE: 1098.007.01.001 - C&T Login Summary (262098)
From: "Justin J. Patterson" <jpatterson@pesenv.com>
Date: 11/13/2014 10:16 AM
To: Will S Rice <will.rice@ctberk.com>

Will

Please run the following sample (on hold) for pesticides on a standard TAT:

B11-3.0-4.0

From: Will S Rice [mailto:will.rice@ctberk.com]
Sent: Thursday, October 30, 2014 2:19 PM
To: Justin J. Patterson; Carl J. Michelsen; Gavin M. Creps
Subject: 1098.007.01.001 - C&T Login Summary (262098)

C&T Login Summary for 262098

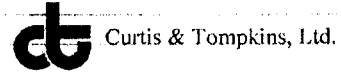
Project: 1098.007.01.001 Site: 39155 & 39183 State St., Fremont Lab Login #: 262098 Report Level: II Report Due: 11/06/14 PO#: C&T Proj Mgr: Will S Rice	Report To: PES Environmental, Inc. 1682 Novato Boulevard Suite 100 Novato, CA 94947 ATTN: Carl Michelsen (415) 899-1600	Bill To: PES Environmental 1682 Novato Boulevard Suite 100 Novato, CA 94947 ATTN: Accounts Payable (415) 899-1600
---	---	---

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
B16-1.0-2.0	001	10/29	10/30	Soil	6010-AS		
				Soil	6010-PB		
				Soil	8081		
				Soil	E8260		
				Soil	ICP PREP		
B16-3.0-4.0	002	10/29	10/30	Soil	E8260		
B11-1.0-2.0	003	10/29	10/30	Soil	6010-AS		
				Soil	6010-PB		
				Soil	8081		
				Soil	E8260		
				Soil	ICP PREP		
B11-3.0-4.0	004	10/29	10/30	Soil	HOLD		
B12-1.0-2.0	005	10/29	10/30	Soil	6010-AS		
				Soil	6010-PB		
				Soil	8081		
				Soil	E8260		

				Soil	ICP PREP
B12-3.0-4.0	006	10/29	10/30		
				Soil	HOLD
B13-1.0-2.0	007	10/29	10/30		
				Soil	6010-AS
				Soil	6010-PB
				Soil	8081
				Soil	E8260
				Soil	ICP PREP
B13-3.0-4.0	008	10/29	10/30		
				Soil	HOLD

Email compiled and sent 10/30/14 02:19 PM.

COOLER RECEIPT CHECKLIST



Login # 262098 Date Received 10/29 Number of coolers 1
Client PES Project 1098.007.01.001

Date Opened 10/29 By (print) EJ (sign) [Signature]
Date Logged in 10/30 By (print) EJ (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

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

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Detections Summary for 262490

Results for any subcontracted analyses are not included in this summary.

Client : PES Environmental, Inc.
Project : 1098.007.01.001
Location : 39155 & 39183 State St., Fremont

Client Sample ID : B11-3.0-4.0 Laboratory Sample ID : 262490-001

No Detections

Client Sample ID : B12-3.0-4.0 Laboratory Sample ID : 262490-002

No Detections

Organochlorine Pesticides		
Lab #:	262490	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B11-3.0-4.0	Batch#: 217461
Lab ID:	262490-001	Sampled: 10/29/14
Matrix:	Soil	Received: 10/30/14
Units:	ug/Kg	Prepared: 11/13/14
Basis:	as received	Analyzed: 11/14/14
Diln Fac:	1.000	

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND b	1.7
beta-BHC	ND b	1.7
gamma-BHC	ND b	1.7
delta-BHC	ND b	1.7
Heptachlor	ND b	1.7
Aldrin	ND b	1.7
Heptachlor epoxide	ND b	1.7
Endosulfan I	ND b	1.7
Dieldrin	ND b	1.7
4,4'-DDE	ND b	3.3
Endrin	ND b	3.3
Endosulfan II	ND b	3.3
Endosulfan sulfate	ND b	3.3
4,4'-DDD	ND b	3.3
Endrin aldehyde	ND b	3.3
4,4'-DDT	ND b	3.3
alpha-Chlordane	ND b	1.7
gamma-Chlordane	ND b	1.7
Methoxychlor	ND b	17
Toxaphene	ND b	60

Surrogate	%REC	Limits
TCMX	108 b	42-134
Decachlorobiphenyl	115 b	29-122

b= See narrative

ND= Not Detected

RL= Reporting Limit

Organochlorine Pesticides		
Lab #:	262490	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Field ID:	B12-3.0-4.0	Batch#: 217461
Lab ID:	262490-002	Sampled: 10/29/14
Matrix:	Soil	Received: 10/30/14
Units:	ug/Kg	Prepared: 11/13/14
Basis:	as received	Analyzed: 11/14/14
Diln Fac:	1.000	

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND b	1.7
beta-BHC	ND b	1.7
gamma-BHC	ND b	1.7
delta-BHC	ND b	1.7
Heptachlor	ND b	1.7
Aldrin	ND b	1.7
Heptachlor epoxide	ND b	1.7
Endosulfan I	ND b	1.7
Dieldrin	ND b	1.7
4,4'-DDE	ND b	3.3
Endrin	ND b	3.3
Endosulfan II	ND b	3.3
Endosulfan sulfate	ND b	3.3
4,4'-DDD	ND b	3.3
Endrin aldehyde	ND b	3.3
4,4'-DDT	ND b	3.3
alpha-Chlordane	ND b	1.7
gamma-Chlordane	ND b	1.7
Methoxychlor	ND b	17
Toxaphene	ND b	60

Surrogate	%REC	Limits
TCMX	92 b	42-134
Decachlorobiphenyl	89 b	29-122

b= See narrative

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262490	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC765760	Batch#: 217461
Matrix:	Soil	Prepared: 11/13/14
Units:	ug/Kg	Analyzed: 11/14/14

Cleanup Method: EPA 3620B

Analyte	Result	RL
alpha-BHC	ND	1.7
beta-BHC	ND	1.7
gamma-BHC	ND	1.7
delta-BHC	ND	1.7
Heptachlor	ND	1.7
Aldrin	ND	1.7
Heptachlor epoxide	ND	1.7
Endosulfan I	ND	1.7
Dieldrin	ND	1.7
4,4'-DDE	ND	3.3
Endrin	ND	3.3
Endosulfan II	ND	3.3
Endosulfan sulfate	ND	3.3
4,4'-DDD	ND	3.3
Endrin aldehyde	ND	3.3
4,4'-DDT	ND	3.3
alpha-Chlordane	ND	1.7
gamma-Chlordane	ND	1.7
Methoxychlor	ND	17
Toxaphene	ND	60

Surrogate	%REC	Limits
TCMX	98	42-134
Decachlorobiphenyl	77	29-122

 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Organochlorine Pesticides		
Lab #:	262490	Location: 39155 & 39183 State St., Fremont
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	1098.007.01.001	Analysis: EPA 8081A
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC765761	Batch#: 217461
Matrix:	Soil	Prepared: 11/13/14
Units:	ug/Kg	Analyzed: 11/14/14

Cleanup Method: EPA 3620B

Analyte	Spiked	Result	%REC	Limits
gamma-BHC	13.14	10.56	80	46-120
Heptachlor	13.14	11.06	84	41-124
Aldrin	13.14	10.67	81	48-122
Dieldrin	13.14	12.50 #	95	39-142
Endrin	13.14	11.85 #	90	45-138
4,4'-DDT	13.14	11.65 #	89	32-145

Surrogate	%REC	Limits
TCMX	85	42-134
Decachlorobiphenyl	71	29-122

#= CCV drift outside limits; average CCV drift within limits per method requirements



10 November 2014

Mr. Carl Michelsen
PES Environmental, Inc.
1682 Novato Blvd., Suite 100
Novato, CA 94947

**SUBJECT: DATA REPORT - PES Environmental, Inc. Project # 109800701001
39155 State Street, Fremont, California**

TEG Project # 41027F

Mr. Michelsen:

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 19 analyses on 19 soil vapor samples.

-- 19 analyses on soil vapors for selected volatile organic hydrocarbons by EPA method 8260B.

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



PES Environmental, Inc.
 Project # 109800701001
 39155 State Street
 Fremont, California

TEG Project #41027F

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

SAMPLE NUMBER:	Probe Blank	Probe Blank	B1-SV	B2-SV	B4-SV	B4-SV	B4-SV	
SAMPLE DEPTH (feet):			3.5	4.0	5.0	5.0	5.0	
PURGE VOLUME:			3	3	1	3	10	
COLLECTION DATE:	10/27/14	10/28/14	10/28/14	10/28/14	10/27/14	10/27/14	10/27/14	
COLLECTION TIME:	11:09	09:29	14:17	13:51	12:35	12:52	13:06	
DILUTION FACTOR:	1	1	1	1	1	1	1	
	RL							
Dichlorodifluoromethane	100	nd	nd	1900	1700	2300	2100	
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	
Chloroethane	100	nd	nd	nd	nd	nd	nd	
Trichlorofluoromethane	100	nd	nd	120	nd	nd	nd	
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	160	160	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	320	480	510	
Trichloroethene	100	nd	nd	nd	nd	nd	nd	
Toluene	200	nd	nd	nd	1800	1500	780	
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	
Tetrachloroethene	100	nd	nd	nd	nd	nd	nd	
Ethylbenzene	100	nd	nd	nd	nd	160	230	
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	
m,p-Xylene	200	nd	nd	nd	360	520	690	
o-Xylene	100	nd	nd	nd	140	190	260	
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)		102%	100%	104%	101%	103%	100%	99%
Surrogate Recovery (1,2-DCA-d4)		96%	85%	105%	98%	100%	95%	87%
Surrogate Recovery (Toluene-d8)		96%	93%	95%	96%	95%	92%	98%

'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: Mr. Leif Jonsson



PES Environmental, Inc.
 Project # 109800701001
 39155 State Street
 Fremont, California

TEG Project #41027F

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

SAMPLE NUMBER:	B5-SV	B6-SV	B6-SV dup	B8-SV	B9-SV	B10-SV	B11-SV	
SAMPLE DEPTH (feet):	5.0	4.0	4.0	5.0	5.0	5.0	5.0	
PURGE VOLUME:	3	3	3	3	3	3	3	
COLLECTION DATE:	10/27/14	10/28/14	10/28/14	10/27/14	10/28/14	10/28/14	10/28/14	
COLLECTION TIME:	14:07	14:43	14:43	14:38	09:53	10:17	10:55	
DILUTION FACTOR:	1	1	1	1	1	1	1	
	RL							
Dichlorodifluoromethane	100	1000	240	170	6400	nd	1400	410
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	1600	110	370	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Benzene	80	nd	97	98	nd	nd	nd	nd
Trichloroethene	100	nd	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	100	300	nd	nd	nd	nd	nd	nd
Ethylbenzene	100	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		100%	100%	96%	105%	90%	103%	95%
Surrogate Recovery (1,2-DCA-d4)		97%	103%	101%	98%	81%	92%	86%
Surrogate Recovery (Toluene-d8)		95%	94%	94%	97%	88%	95%	88%

'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: Mr. Leif Jonsson

page 2



PES Environmental, Inc.
 Project # 109800701001
 39155 State Street
 Fremont, California

TEG Project #41027F

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

SAMPLE NUMBER:	B11-SV	B12-SV	B14-SV	B15-SV	B16-SV	B17-SV	B18-SV	
	dup							
SAMPLE DEPTH (feet):	5.0	5.0	5.0	5.0	5.0	5.0	5.0	
PURGE VOLUME:	3	3	3	3	3	3	3	
COLLECTION DATE:	10/28/14	10/28/14	10/28/14	10/28/14	10/28/14	10/28/14	10/28/14	
COLLECTION TIME:	10:55	11:36	11:59	12:13	12:41	12:57	13:30	
DILUTION FACTOR:	1	1	1	1	1	1	1	
	RL							
Dichlorodifluoromethane	100	400	4100	390	1800	2300	1900	210
Vinyl Chloride	100	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	1100	nd	nd	160	460	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
Chloroform	100	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	100	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Benzene	80	nd	nd	nd	nd	nd	nd	nd
Trichloroethene	100	nd	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	100	nd	nd	nd	nd	550	nd	nd
Ethylbenzene	100	nd	nd	nd	nd	nd	220	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	420	nd	1100	nd
o-Xylene	100	nd	nd	nd	150	nd	350	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		97%	99%	98%	98%	99%	99%	103%
Surrogate Recovery (1,2-DCA-d4)		94%	96%	94%	96%	99%	99%	102%
Surrogate Recovery (Toluene-d8)		94%	95%	95%	94%	96%	94%	88%

'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: Mr. Leif Jonsson



PES Environmental, Inc.
Project # 109800701001
39155 State Street
Fremont, California

TEG Project #41027F

CALIBRATION DATA - Calibration Check Compounds

	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 Calibration - Midpoint

10/27/14	10.5 105%	10.2 102%	10.8 108%	10.4 104%	10.1 101%	10.4 104%
10/28/14	10.2 102%	9.5 95%	9.9 99%	9.7 97%	9.4 94%	9.4 94%
