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February 15, 2017

Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

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By Alameda County Environmental Health 8:20 am, Feb 21, 2017

Attention: Mr. Mark Detterman, PG, CEG, Senior Hazardous Materials Specialist

TRANSMITTAL LETTER
REMEDIAl PROGRESS REPRORT NO. 3
SOIL VAPOR EXTRACTION SYSTEM OPERATION
DECEMBER 16, 2016 THROUGH JANUARY 16, 2017
6701, 6705, and 6707 SHELLMOUND STREET
EMERYVILLE, CALIFORNIA
Fuel Leak Case No. RO0000548
Geotracker Global ID T0600100894

Dear Mr. Detterman:

Submitted herewith for your review is the *Remedial Progress Report No. 3, Soil Vapor Extraction System Operation, December 16, 2016 through Janury 16, 2017, 6701, 6705, and 6707 Shellmound Street, Emeryville, California* dated February 15, 2017, prepared by PES Environmental, Inc.

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document or report submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

Very truly yours,

ANTON EMERYVILLE, LLC

Rachel Green
Development Manager



February 15, 2017

1448.001.02.005

Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Attention: Mr. Mark Detterman, P.G., C.E.G.

**Re: Remedial Progress Report No. 3
Soil Vapor Extraction System Operation
December 16, 2016 through January 16, 2017
6701, 6705, and 6707 Shellmound Street
Emeryville, California
Fuel Leak Case No. RO0000548
Geotracker Global Id T0600100894**

Dear Mr. Detterman:

PES Environmental, Inc. (PES) has prepared this Remedial Progress Report (RPR) No. 3 on behalf of Anton Emeryville, LLC (Anton) to fulfill the monthly remedial progress reporting requirement¹ requested by Alameda County Environmental Health (ACEH) for operation of the soil vapor extraction (SVE) system currently operated as an interim remedial action (IRA) for the property at 6701, 6705, and 6707 Shellmound Street in Emeryville, California (collectively, the subject property or site). The subject property is currently identified as an open Spills, Leaks, Investigation and Cleanup (SLIC) case (listed under Mike Roberts Color Production at 6707 Bay Street) and ACEH is the lead environmental regulatory agency.

Upon approval from ACEH, operation of the SVE system as an IRA commenced on November 8, 2016. The reporting period covered by this RPR is inclusive of December 16, 2016 through January 16, 2017.

¹ ACEH, 2016. *Request for Interim Remedial Action Monitoring Plan and Schedule; SCP Case RO000548 and Geotracker Global ID T0600100894, Mike Roberts Color Production 6707 Bay Street, Emeryville, CA 94608.* November 8.

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This RPR summarizes operation and maintenance (O&M) of the SVE system during the subject reporting period, and includes:

1. A summary description of SVE monitoring activities during the subject reporting period;
2. Summary tables and graphical presentation of laboratory analytical data for vapor samples; and
3. Anticipated activities for the following reporting period.

SVE System Description

The SVE well network consists of 19 soil vapor extraction wells (wells SVE-1 through SVE-19) connected through schedule 40 polyvinyl chloride (PVC) piping plumbed to the SVE system air inlet. The extracted airstream is conveyed from the air inlet through a water knockout vessel, vacuum blower and then to three treatment vessels in series. Vapors flow first to a vessel containing 2,000 lb. of granular activated carbon (GAC), then through two vessels each containing 4,000 lb. of granular Hydrosil HS-600 potassium permanganate (7%) zeolite to remove volatile organic compounds (VOCs) in the extracted vapors. After treatment, the airstream is conveyed through an exhaust stack prior to discharge to the atmosphere above the roof line of the building. The SVE system also includes ten air inlet wells, which function to permit atmospheric air flow to the subsurface during SVE operations. The locations of the SVE and air inlet wells are shown on Plate 1, and as-built diagrams of the SVE system are presented in Appendix A.

SVE Operations

During this reporting period the SVE system was operated in accordance with methods and procedures for routine operation, maintenance, and monitoring as described in the O&M Plan². Routine O&M activities are performed by Environmental Engineering, Consulting, and Remediation, Inc. (E2CR). Daily compliance monitoring of the SVE system was conducted during the reporting period in accordance with the Authority to Construct (ATC) permit issued by the Bay Area Air Monitoring District (BAAQMD).

² PES Environmental, Inc., 2016. *December 2016 Remedial Progress Report, Soil Vapor System Operations from November 8 through 15, 2016, 6701, 6705, and 6707 Shellmound Street, Emeryville, California, Fuel Leak Case No. RO0000548, Geotracker Global Id T0600100894*. December 16.

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The SVE system was temporarily shut down between January 9 and 11, 2017 to permit remediation of carbon fines blocking air release piping inside a carbon treatment vessel and causing excessive pressure buildup within the system. The SVE system was restarted on January 12.

Summary of SVE Monitoring

Monitoring points near each wellhead, between vessels, and at multiple points past the air inlet valve are monitored. Influent, mid-point, and effluent monitoring were conducted during the reporting period in accordance with the ATC permit.

Tabulated field measurements of SVE operation for this reporting period are attached, and consist of:

- SVE operational data, presented in Table 1; and
- Field measurements of individual SVE well vacuum³, flow rate⁴, and total VOCs using a photoionization detector (PID)⁵, presented in Table 2.

SVE System Observed Vacuum and Flow Rate

During the reporting period, observed operating vacuum ranged from 4.0 to 5.0 inches of mercury.

SVE influent flow rate is estimated utilizing the blower manufacturer curve based on measured vacuum at an influent sample port upstream of the blower. As shown in Table 1, average operating flow rates during the reporting period ranged from 756 to 787 standard cubic feet per minute (scfm).

Vacuum at Vapor Extraction Wells

Table 2 summarizes vacuum observations at each extraction well. In general, observed vacuum at wells during the reporting period indicate well-distributed vacuum pressure through the SVE well network (i.e., similar vacuum at each well).

³ Measured with Dwyer Series 477 digital manometer.

⁴ Measured with TSI Inc., Velocicalc Model 9535 digital anemometer. Due to the presence of turbulent flow at accessible SVE well monitoring points, accurate measurement of individual well flow rates were not obtained.

⁵ Measured with a MiniRAE 2000 PID.

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Wells SVE-2, SVE-3, SVE-7, SVE-8, and SVE-14 were shut off on November 30, 2016 based on low concentrations of VOCs detected in baseline samples submitted for laboratory analysis, as well as generally low field measurements of total VOCs using a PID. Additionally, wells SVE-5, SVE-6 and SVE-13 were also shut down on December 21, 2016 based on generally low VOC concentrations detected in laboratory samples and/or field measurements. To further aid input of vapor through the subsurface, wells SVE-5, SVE-13, and SVE-14 were converted to temporary air inlet wells by removing the wellhead piping.

Estimated Cumulative Mass Removal

Based on compliance sample results⁶ the estimated cumulative mass of vinyl chloride extracted since commencement of SVE to the end of this reporting period is 0.32 pounds. PID readings of total VOCs in influent vapor collected during SVE system compliance monitoring (Table 1) ranged from 0.0 to 39 parts per million by volume (ppmv).

Laboratory Analytical Results for SVE Well Vapor Samples

Vapor samples were collected on January 16, 2017 from nine extraction wells (SVE-1, SVE-4, SVE-9, SVE-10, SVE-12, SVE-15, SVE-16, SVE-17, and SVE-18). The samples were analyzed for VOCs using U.S. Environmental Protection Agency Test Method TO-15 by TestAmerica Laboratories, Inc. of Sacramento, California. Laboratory analytical results for detected VOCs are presented in Table 3. The laboratory analytical report and chain-of-custody documentation for the samples collected on January 16, 2017 are provided in Appendix B.

A time-concentration chart of vinyl chloride concentrations in SVE wells with the highest baseline concentrations of vinyl chloride is presented as Plate 2. Risk-based target cleanup levels (TCLs) for vinyl chloride, presented in the November 2016 Human Health Risk Assessment Report⁷, are also graphically indicated on Plate 2.

Planned SVE Field Activities for Next Reporting Period

SVE operation activities for the upcoming reporting period include:

- Compliance monitoring of the SVE system in accordance with BAAQMD requirements⁸;

⁶ Influent vapor sample collected by E2CR on November 28, 2016.

⁷ SLR International Corporation, 2016. *Human Health Risk Assessment Report*, 6701-6707 Shellmound Street, Emeryville, California. November.

⁸ The SVE system was operated in accordance with the ATC permit issued by BAAQMD. BAAQMD issued the Permit to Operate (PTO) on February 2, 2017.

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- Weekly field measurements of SVE well flow, vacuum, and total VOCs; and
- Collection of vapor samples from all SVE wells as part of the third 30-day interval vapor sampling event.

If you have any questions, please contact the undersigned at (415) 899-1600.

Very truly yours,

PES ENVIRONMENTAL, INC.



Christopher J. Baldassari, P.G.
Senior Geologist



Attachments:	Table 1	Summary of SVE System Operational Data
	Table 2	Summary of SVE Well Field Measurements
	Table 3	Summary of Laboratory Analytical Results for Vapor Samples
	Plate 1	Site Plan and SVE / Air Inlet Well and Probe Locations
	Plate 2	Vinyl Chloride Concentrations in SVE Wells
	Appendix A	As-Built Drawing of SVE System
	Appendix B	Laboratory Analytical Report and Chain-of-Custody Documentation

TABLES

Table 1
Summary of SVE System Operational Data
Soil Vapor Extraction System
6701-6707 Shellmound Street
Emeryville, California

Date	Total Operating Hours	System Vacuum Reading (in. of Hg)	Average Flow Rate (scfm)	Well Field Vacuum (in. of Hg)	PID Influent (ppmv)	Lab Influent (VC) (mg/m³)	VC Extracted (grams)	Cumulative lbs VC Extracted
11/8/16	0	6.5	712	NA	7.0	0.250	0.00	0.00
11/9/16	19	6.2	721	NA	17.7	0.250	14.6	0.03
11/10/16	43	5.3	748	NA	13.0	0.250	19.4	0.07
11/11/16	64	4.9	760	4.89	12.7	0.250	17.3	0.11
11/14/16	65	6.0	727	6.00	9.0	0.250	1.2	0.12
11/15/16	90	6.0	727	0.0	11.3	0.250	19.9	0.16
11/16/16	114	6.0	727	5.74	9.1	0.250	18.9	0.20
11/17/16	137	6.0	727	5.73	10.1	0.047	10.8	0.23
11/18/16	161	6.0	727	5.67	7.5	0.047	3.6	0.23
11/19/16	184	5.7	737	5.65	6.4	0.047	3.5	0.24
11/20/16	207	6.0	727	5.60	6.5	0.047	3.4	0.25
11/21/16	231	6.0	727	5.25	6.5	0.047	3.6	0.26
11/22/16	256	6.0	727	5.20	4.3	0.047	3.6	0.26
11/23/16	277	6.0	727	5.50	2.3	0.000	1.6	0.27
11/24/16	289	6.0	727	NA	1.4	0.000	0.0	0.27
11/25/16	318	6.5	712	NA	1.5	0.000	0.0	0.27
11/26/16	344	7.0	696	NA	1.1	0.000	0.0	0.27
11/27/16	367	7.0	696	NA	1.3	0.000	0.0	0.27
11/28/16	390	6.0	727	NA	2.9	0.012	0.0	0.27
11/29/16	415	5.0	757	4.63	0.0	0.012	1.8	0.27
11/30/16	437	4.8	765	4.00	0.0	0.012	0.8	0.27
12/1/16	459	4.8	764	3.95	1.8	0.012	0.8	0.27
12/2/16	484	4.8	764	3.93	0.9	0.012	1.0	0.28
12/5/16	485	4.9	762	4.00	0.0	0.012	0.0	0.28
12/6/16	507	4.9	760	4.00	0.3	0.012	0.8	0.28
12/7/16	532	4.9	760	4.00	0.3	0.012	0.9	0.28
12/8/16	553	4.9	762	4.00	0.4	0.012	0.8	0.28
12/9/16	577	4.9	761	4.07	0.6	0.012	0.9	0.28
12/12/16	578	4.9	761	4.00	0.1	0.012	0.0	0.28
12/13/16	598	4.6	770	4.20	0.3	0.012	0.8	0.29
12/14/16	627	4.9	760	4.13	0.0	0.012	1.1	0.29
12/15/16	645	4.9	762	4.10	0.4	0.012	0.7	0.29
12/16/16	669	5.0	756	4.22	0.0	0.012	0.9	0.29
12/19/16	670	4.8	763	4.00	2.4	0.012	0.0	0.29
12/20/16	694	4.7	766	3.98	0.0	0.012	0.9	0.29
12/21/16	719	4.7	767	4.07	0.0	0.012	1.0	0.30
12/22/16	743	4.9	761	4.14	0.0	0.012	0.9	0.30
12/23/16	767	4.7	766	3.97	0.0	0.012	0.9	0.30
12/27/16	769	4.0	787	NA	4.6	0.012	0.1	0.30
12/28/16	794	4.0	787	NA	39.0	0.012	1.0	0.30
12/29/16	818	5.0	757	NA	34.8	0.012	0.9	0.30
12/30/16	841	5.0	757	NA	1.0	0.012	0.9	0.31

Table 1
Summary of SVE System Operational Data
Soil Vapor Extraction System
6701-6707 Shellmound Street
Emeryville, California

Date	Total Operating Hours	System Vacuum Reading (in. of Hg)	Average Flow Rate (scfm)	Well Field Vacuum (in. of Hg)	PID Influent (ppmv)	Lab Influent (VC) (mg/m ³)	VC Extracted (grams)	Cumulative lbs VC Extracted
1/2/17	842	5.0	758	4.13	1.7	0.012	0.0	0.31
1/3/17	866	4.9	760	4.10	2.1	0.012	0.9	0.31
1/4/17	892	4.7	766	4.00	0.3	0.012	1.0	0.31
1/5/17	914	4.7	767	4.02	2.5	0.012	0.8	0.31
1/6/17	841	4.7	767	4.02	0.0	0.012	0.0	0.31
1/12/17	1023	4.1	784	4.00	2.3	0.012	0.9	0.32
1/13/17	1049	4.2	781	4.06	0.6	0.012	1.0	0.32
1/14/17	1074	4.4	777	4.15	2.2	0.012	1.0	0.32
1/15/17	1096	4.3	779	4.15	0.3	0.012	0.9	0.32
1/16/17	1120	4.3	780	4.08	0.0	0.012	0.0	0.32

Notes:

Only dates of SVE operation are shown.

-- = Data not available

NA = Not Applicable or Not Available

in. = inches

VOC = Volatile Organic Compounds

scfm = Standard cubic feet per minute

ppmv = Parts per million by volume

lbs = Pounds

VC = Vinyl Chloride

Mass extracted are estimated on laboratory analytical data.

mg/m³ = milligrams per cubic meter air

SVE = Soil vapor extraction

Table 2
SVE Well Field Measurements
6701 - 6707 Shellmound Street
Emeryville, California

	Units	11/9/2016	11/15/2016	11/22/2016	12/1/2016	12/5/2016	12/13/2016	12/20/2016	12/27/2016	1/16/2017
SVE-1										
Total VOCs	PPMv	49.3	115.7	102.1	80.2	75.9	3.80	3.30	8.30	0.50
Vacuum	in. H2O	67.6	77.8	69.5	54.5	51.2	53.70	53.80	60.20	57.60
SVE-2										
Total VOCs	PPMv	44.3	36.5	11.1	--	--	--	--	--	--
Vacuum	in. H2O	64.2	72.3	65.1	--	--	--	--	--	--
SVE-3										
Total VOCs	PPMv	12.5	17.9	10.4	--	--	--	--	--	--
Vacuum	in. H2O	65.9	75.3	67.5	--	--	--	--	--	--
SVE-4										
Total VOCs	PPMv	26.8	40.8	31.3	17.6	33.3	15.30	4.00	7.00	0.80
Vacuum	in. H2O	66.4	75.7	68.0	54.7	51.3	53.60	54.10	60.60	57.50
SVE-5										
Total VOCs	PPMv	35.4	79.4	71.6	40.9	91.8	0.30	1.40	--	--
Vacuum	in. H2O	66.8	76.3	68.4	54.5	48.5	52.90	54.30	--	--
SVE-6										
Total VOCs	PPMv	126.2	93.3	20.7	4.3	32.6	16.30	--	--	--
Vacuum	in. H2O	65.2	76.9	68.9	54.6	51.1	49.50	--	--	--
SVE-7										
Total VOCs	PPMv	17.1	66.4	11.4	--	--	--	--	--	--
Vacuum	in. H2O	64.9	77.0	69.0	--	--	--	--	--	--
SVE-8										
Total VOCs	PPMv	5.7	40.2	14.4	--	--	--	--	--	--
Vacuum	in. H2O	65.0	77.2	69.1	--	--	--	--	--	--
SVE-9										
Total VOCs	PPMv	1.7	13.1	7.4	4.1	7.7	22.30	7.20	24.50	2.10
Vacuum	in. H2O	67.6	77.8	69.4	54.5	51.1	53.30	54.10	60.80	57.90
SVE-10										
Total VOCs	PPMv	1.7	24.9	6.2	3.9	4.7	8.40	4.20	22.90	1.40
Vacuum	in. H2O	67.7	77.9	69.4	54.4	51.2	53.20	54.00	61.00	57.60
SVE-11										
Total VOCs	PPMv	12.3	31.1	7.6	--	1.9	2.00	3.30	49.60	0.40
Vacuum	in. H2O	67.5	77.7	69.3	54.3	51.1	53.50	53.70	59.60	57.30
SVE-12										
Total VOCs	PPMv	15.2	46.1	5.0	--	2.1	1.70	2.00	1.10	0.20
Vacuum	in. H2O	67.6	77.7	69.3	54.3	50.9	54.00	54.00	60.60	57.60
SVE-13										
Total VOCs	PPMv	4.2	50.2	9.0	--	0.4	0.40	2.50	--	--
Vacuum	in. H2O	67.8	77.6	69.3	54.1	50.5	53.30	53.80	--	--
SVE-14										
Total VOCs	PPMv	4.5	1.2	1.3	--	--	--	--	--	--
Vacuum	in. H2O	67.7	77.8	69.5	--	--	--	--	--	--
SVE-15										
Total VOCs	PPMv	2.5	34.2	8.1	--	5.1	3.80	1.90	1.40	0.60
Vacuum	in. H2O	67.6	77.8	69.5	54.4	51.3	53.20	54.00	60.10	57.70
SVE-16										
Total VOCs	PPMv	127.1	121.7	55.3	--	56.7	53.60	66.60	58.50	11.20
Vacuum	in. H2O	67.5	77.8	69.5	54.1	51.2	361.00	54.20	59.70	57.80
SVE-17										
Total VOCs	PPMv	15.2	32.1	8.9	--	5.4	32.50	6.80	4.30	0.60
Vacuum	in. H2O	67.8	77.9	69.4	54.2	51.2	53.30	53.10	60.80	57.80
SVE-18										
Total VOCs	PPMv	8.5	60.3	7.9	--	6.9	0.20	1.60	63.90	0.00
Vacuum	in. H2O	67.7	77.6	69.2	54.2	51.3	53.40	54.00	59.60	58.00
SVE-19										
Total VOCs	PPMv	8.3	83.9	4.7	--	1.9	0.50	1.30	74.00	0.30
Vacuum	in. H2O	67.5	77.6	69.3	54.2	51.3	53.60	54.00	60.80	57.80

Note:

SVE = Soil vapor extraction

PID = Photoionization Detector

-- = Not measured

PPMv = parts per million by volume

in. H2O = inches of water

Table 3
Summary of Laboratory Analytical Results for Vapor Samples
Soil Vapor Extraction System
6701, 6705, and 6707 Shellmound Street, Emeryville, California

Sample Location	Sample ID	Date	Screened Interval (feet bgs)	PCE ($\mu\text{g}/\text{m}^3$)	TCE ($\mu\text{g}/\text{m}^3$)	cis-1,2-DCE ($\mu\text{g}/\text{m}^3$)	trans-1,2-DCE ($\mu\text{g}/\text{m}^3$)	Vinyl chloride ($\mu\text{g}/\text{m}^3$)	1,1,1-TCA ($\mu\text{g}/\text{m}^3$)	1,1,2,2-PCA ($\mu\text{g}/\text{m}^3$)	MEK ($\mu\text{g}/\text{m}^3$)	MIBK ($\mu\text{g}/\text{m}^3$)	Acetone ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	m,p-Xylene ($\mu\text{g}/\text{m}^3$)	o-Xylene ($\mu\text{g}/\text{m}^3$)	1,2,4-TMB ($\mu\text{g}/\text{m}^3$)	1,3,5-TMB ($\mu\text{g}/\text{m}^3$)	1,3-DCB ($\mu\text{g}/\text{m}^3$)	4-Ethyltoluene ($\mu\text{g}/\text{m}^3$)	Carbon disulfide ($\mu\text{g}/\text{m}^3$)	Chloroform ($\mu\text{g}/\text{m}^3$)	Other VOCs ($\mu\text{g}/\text{m}^3$)
SVE Wells																									
SVE-1	SVE-1	7/13/2016	5 to 10	< 140	< 180	< 110	< 110	3,400	< 110	< 180	< 160	< 110	< 790	< 85	< 100	< 120	< 230	< 120	< 260	< 130	< 160	< 130	< 170	< 98	
SVE-1	SVE-1	7/14/2016	5 to 10	< 1600	< 2000	3,500	1,900	40,000	< 1200	< 2000	< 1700	< 1200	< 8600	< 930	< 1100	< 1300	< 2500	< 1300	< 2900	< 1400	< 1800	< 1400	< 1800	< 1100	
SVE-1	SVE-1-103116	10/31/2016	5 to 10	120	< 180	670	270	16,000	< 74	< 120	10,000	< 75	7,700	130	66	< 79	< 160	< 180	< 89	< 110	< 89	< 110	< 67	150 (1,1-DCE)	
SVE-1	SVE-1	12/2/2016	5 to 10	150	< 180	7,900	3,400	6,200	< 110	< 180	< 150	< 110	< 770	240	< 98	< 110	< 230	190	< 260	190	< 160	< 130	270	< 95	
SVE-1	SVE-1	1/16/2017	5 to 10	< 2.7	< 2.1	< 1.6	< 1.6	< 1	< 1.6	< 2.7	< 3.1	3.5	< 1.6	61	2.2	9.3	6.0	21	6.0	< 3.9	< 2	< 2	< 2.5	< 1.5	
SVE-2	SVE-2-103116	10/31/2016	5 to 10	< 26	< 33	< 19	< 19	20	< 20	< 34	2,400	< 20	1,700	41	< 18	< 21	< 42	< 21	< 48	< 24	< 29	< 30	< 30	< 18	
SVE-3	SVE-3-103116	10/31/2016	4 to 9	< 16	< 21	14	< 12	40	< 13	280	< 13	190	290	92	770	130	110	53	< 18	27	190	< 11	19 (Naphthalene)		
SVE-3	SVE-3	12/2/2016	4 to 9	< 5.2	< 6.6	12	< 3.9	< 2.5	< 4	< 6.7	7.0	< 4	< 29	21	11	110	18	20	10	< 5.8	< 4.8	240	< 3.6	21 (1,2-DCB)	
SVE-4	SVE-4	SVE-4-103116	10/31/2016	5 to 10	18	< 12	51	12	170	< 7.1	< 12	290	< 7.1	360	67	12	8.3	27	10	< 17	< 8.5	< 10	< 8.5	240	< 6.3
SVE-4	SVE-4	1/16/2017	5 to 10	< 2.7	< 2.1	< 1.6	< 1.6	< 1	< 1.6	< 2.7	< 3.1	4.1	< 1.6	43	1.7	6.9	4.5	16	4.5	< 3.9	< 2	< 2	< 2.5	< 1.5	
SVE-5	SVE-5-103116	10/31/2016	5 to 10	69	< 12	160	23	230	< 7.3	< 12	320	< 7.3	150	170	33	19	110	23	23	15	24	< 8.8	< 11	< 6.6	
SVE-5	SVE-5	12/2/2016	5 to 10	18	< 2.7	62	7.0	22	< 1.6	< 2.7	< 2.4	< 1.6	< 12	93	17	21	76	32	< 3.9	2.4	15	< 2	79	< 1.5	
SVE-6	SVE-6-103116	10/31/2016	5 to 10	< 29	< 36	< 21	< 21	< 14	< 22	< 37	1,400	< 22	600	150	< 20	27	88	52	< 53	< 26	< 32	< 26	< 33	< 20	
SVE-7	SVE-7-103116	10/31/2016	5 to 10	< 7.5	< 9.5	5.6	< 5.6	40	< 5.7	< 9.6	140	< 5.8	58	< 4.5	< 6.1	< 12	< 6.1	< 14	< 6.9	< 8.4	< 6.9	< 8.7	< 5.1		
SVE-7	SVE-7	12/2/2016	5 to 10	< 2.1	6.3	< 1.6	< 1.6	< 1	< 1.6	< 2.7	< 2.4	< 1.6	< 12	< 1.3	< 1.5	< 1.7	< 3.5	< 1.7	< 3.9	< 2	< 2.4	< 2	< 2.5	< 1.5	
SVE-8	SVE-8-103116	10/31/2016	5 to 10	< 2.1	< 2.7	< 1.6	< 1.6	< 1	< 1.6	< 2.7	26	3.0	34	< 1.3	< 1.5	< 1.7	< 3.5	< 1.7	< 3.9	< 2	< 2.4	< 2	17	< 1.5	
SVE-9	SVE-9-103116	10/31/2016	5 to 10	< 22	< 28	38	< 16	340	< 17	< 28	390	< 17	240	160	68	19	120	32	< 40	25	< 25	< 20	26	< 15	
SVE-9	SVE-9	1/16/2017	5 to 10	< 2.7	< 2.1	< 1.6	< 1.6	< 1	< 1.6	< 2.7	< 3.1	2.8	< 1.6	41	1.6	7.5	4.4	16	4.3	< 3.9	< 2	< 2	< 2.5	< 1.5	
SVE-10	SVE-10-103116	10/31/2016	5 to 10	< 150	< 180	< 110	< 110	3,900	< 110	< 190	< 160	< 110	< 800	200	< 100	< 120	< 240	< 120	< 270	< 130	< 160	< 130	< 170	< 99	
SVE-10	SVE-10	12/2/2016	5 to 10	< 15	< 19	110	36	320	< 12	< 20	< 17	< 12	< 85	78	17	< 12	31	< 12	< 28	< 14	< 17	< 14	630	< 11	
SVE-10	SVE-10	1/16/2017	5 to 10	< 2.7	4.0	15	2.5	38	< 1.6	< 2.7	< 3.1	< 2.4	< 1.6	14	52	15	3.1	19	3.2	< 3.9	< 2	< 2	17	< 1.5	
SVE-11	SVE-11-103116	10/31/2016	5 to 10	< 95	< 120	180	< 70	< 45	< 73	< 120	2,300	< 73	3,300	130	< 67	< 77	< 150	< 77	< 170	< 87	< 110	< 87	< 110	< 65	
SVE-12	SVE-12-103116	10/31/2016	5 to 10	< 1300	< 1600	18,000	27,000	62,000	< 970	< 1600	< 1400	< 970	< 7000	< 760	< 890	< 1000	< 2100	< 1000	< 2300	< 1200	< 1400	< 1200	< 1500	<	

Table 3
Summary of Laboratory Analytical Results for Vapor Samples
Soil Vapor Extraction System
6701, 6705, and 6707 Shellmound Street, Emeryville, California

Sample Location	Sample ID	Date	Screened Interval (feet bgs)	PCE ($\mu\text{g}/\text{m}^3$)	TCE ($\mu\text{g}/\text{m}^3$)	cis-1,2-DCE ($\mu\text{g}/\text{m}^3$)	trans-1,2-DCE ($\mu\text{g}/\text{m}^3$)	Vinyl chloride ($\mu\text{g}/\text{m}^3$)	1,1,1-TCA ($\mu\text{g}/\text{m}^3$)	1,1,2,2-PCA ($\mu\text{g}/\text{m}^3$)	MEK ($\mu\text{g}/\text{m}^3$)	MIBK ($\mu\text{g}/\text{m}^3$)	Acetone ($\mu\text{g}/\text{m}^3$)	Benzene ($\mu\text{g}/\text{m}^3$)	Toluene ($\mu\text{g}/\text{m}^3$)	Ethylbenzene ($\mu\text{g}/\text{m}^3$)	m,p-Xylene ($\mu\text{g}/\text{m}^3$)	o-Xylene ($\mu\text{g}/\text{m}^3$)	1,2,4-TMB ($\mu\text{g}/\text{m}^3$)	1,3,5-TMB ($\mu\text{g}/\text{m}^3$)	1,3-DCB ($\mu\text{g}/\text{m}^3$)	4-Ethyltoluene ($\mu\text{g}/\text{m}^3$)	Carbon disulfide ($\mu\text{g}/\text{m}^3$)	Chloroform ($\mu\text{g}/\text{m}^3$)	Other VOCs ($\mu\text{g}/\text{m}^3$)
Soil Vapor Monitoring Probes																									
SVP-1-7.5	SVP-1-7.5	7/12/2016	7.5	< 250	< 250	250	< 180	13,000	< 190	< 310	< 270	< 190	< 1400	250	< 170	< 200	< 400	< 200	< 450	< 220	< 270	< 220	< 280	< 170	
SVP-2-3.5	SVP-2-3.5	7/12/2016	3.5	< 17	< 17	< 12	< 12	920	< 13	< 21	< 18	< 13	< 92	31	14	55	23	< 31	< 15	< 19	< 15	83	78		
SVP-2-7.5	SVP-2-7.5	7/12/2016	7.5	< 1300	< 1300	< 990	< 990	75,000	< 1000	< 1700	< 1500	< 1000	< 7400	< 800	< 950	< 1100	< 2200	< 1100	< 2500	< 1200	< 1500	< 1200	< 1600	< 920	
SVP-3-7.5	SVP-3-7.5	7/12/2016	7.5	< 38	< 38	< 28	< 28	2,400	< 29	< 49	57	< 29	260	310	170	< 31	< 61	< 31	< 70	< 35	< 43	< 35	130	< 26	
SVP-4-3.5	SVP-4-3.5	7/12/2016	3.5	6.9	6.9	< 1.6	< 1.6	< 1	9.5	4.8	19	11	44	19	18	23	120	54	17	8.7	< 2.4	3.9	3.1	57	
SVP-4-7.5	SVP-4-7.5	7/12/2016	7.5	19	19	57	9.1	180	< 4.5	< 7.6	23	< 4.5	84	230	59	21	210	24	20	10	59	< 5.4	20	< 4.1	
SVP-5-7.5	SVP-5-7.5	7/12/2016	7.5	< 510	< 510	< 370	< 370	22,000	< 390	< 650	< 560	< 390	< 2800	490	< 360	< 410	< 820	< 410	< 930	< 460	< 570	< 460	< 590	< 350	
SVP-6-3.5	SVP-6-3.5	7/12/2016	3.5	< 1700	< 1700	14,000	6,100	100,000	< 1300	< 2200	< 1900	< 1300	< 9600	< 1000	< 1200	< 1400	< 2800	< 1400	< 3200	< 1600	< 2000	< 1600	< 2000	< 1200	
SVP-6-7.5	SVP-6-7.5	7/12/2016	7.5	< 1800	< 1800	16,000	6,300	98,000	< 1400	< 2300	< 1400	< 10000	< 1100	< 1300	< 1500	< 3000	< 1500	< 3400	< 1700	< 2000	< 1700	< 2100	< 1200		
Residential Land Use ESL¹																								Varies	
Commercial/Industrial Land Use ESL²																								Varies	
Residential TCL (Target LECR = 10-4)																								--	
Commercial/Industrial TCL (Target LECR = 10-4)																								--	
Residential TCL (Target LECR = 10-5)																								--	
Commercial/Industrial TCL (Target LECR = 10-5)																								--	
Residential TCL (Target LECR = 10-6)																								--	
Commercial/Industrial TCL (Target LECR = 10-6)																								--	

Notes:

Detections are shown in bold. Results exceeding 10-4 LECR for chemicals with TCLs are shaded; results without TCLs that are equal to or exceeding commercial/industrial ESLs are shaded.

LECR = Lifetime excess cancer risk

Only detected analytes are summarized on table. Refer to Appendix D for laboratory report to access entire list of compounds analyzed.

SVE = Soil vapor extraction

BCDM = Bromodichloromethane

DCB = Dichlorobenzene

DCE = Dichloroethene

Freon 11 = Trichlorofluoromethane

Freon 12 = Dichlorodifluoromethane

MC = Methylene Chloride

MEK = Methyl Ethyl Ketone

MIBK = Methyl Isobutyl Ketone

NAPH = Naphthalene

PCA = Tetrachloroethane

TCA = Trichloroethane

TCE = Trichloroethene

TMB = Trimethylbenzene

VOCs = Volatile organic compounds

bgs = Below ground surface

 $\mu\text{g}/\text{m}^3$ = Micrograms per cubic meter

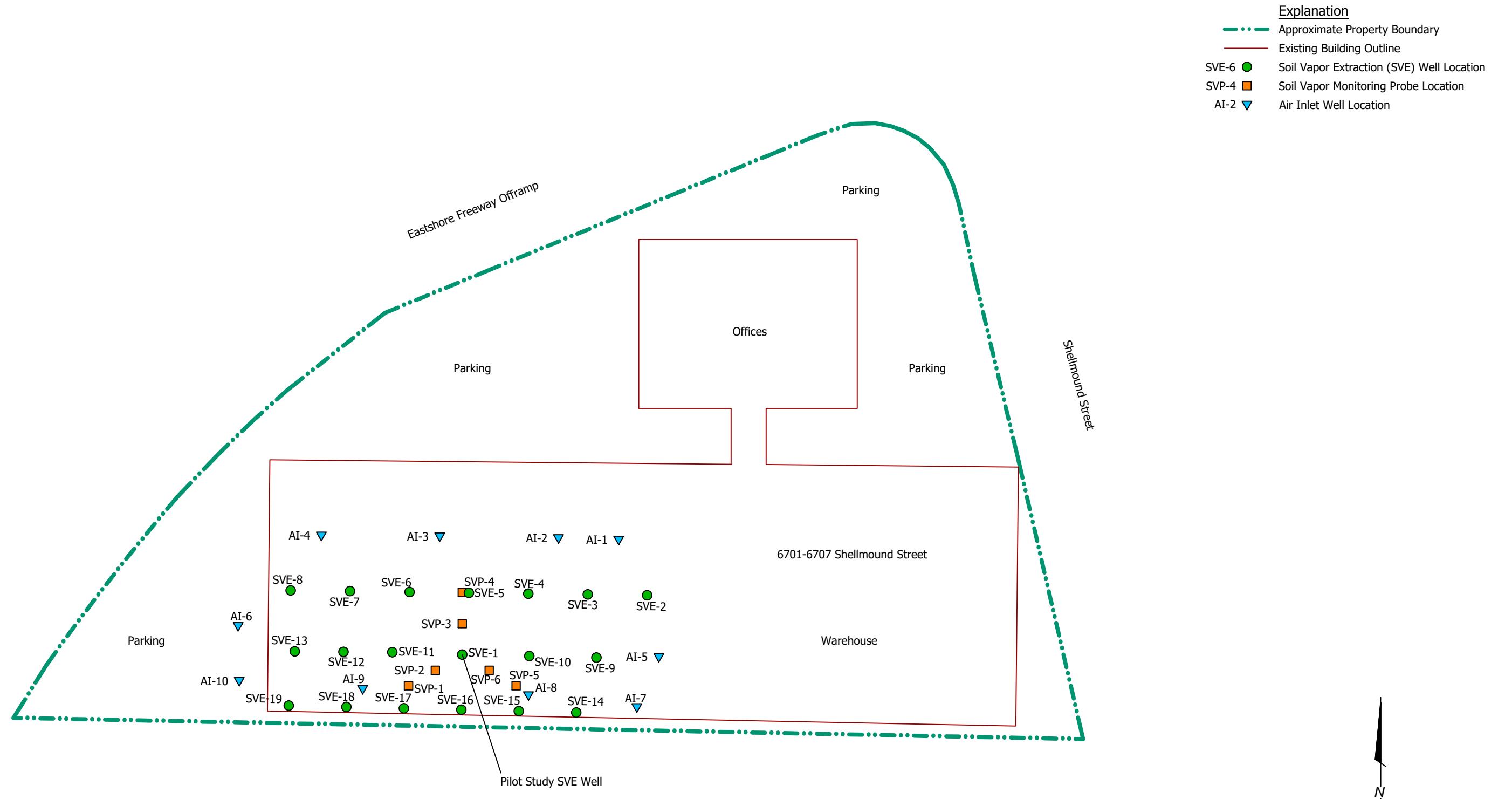
< 2.9 = Not detected at or above the indicated laboratory method reporting limit

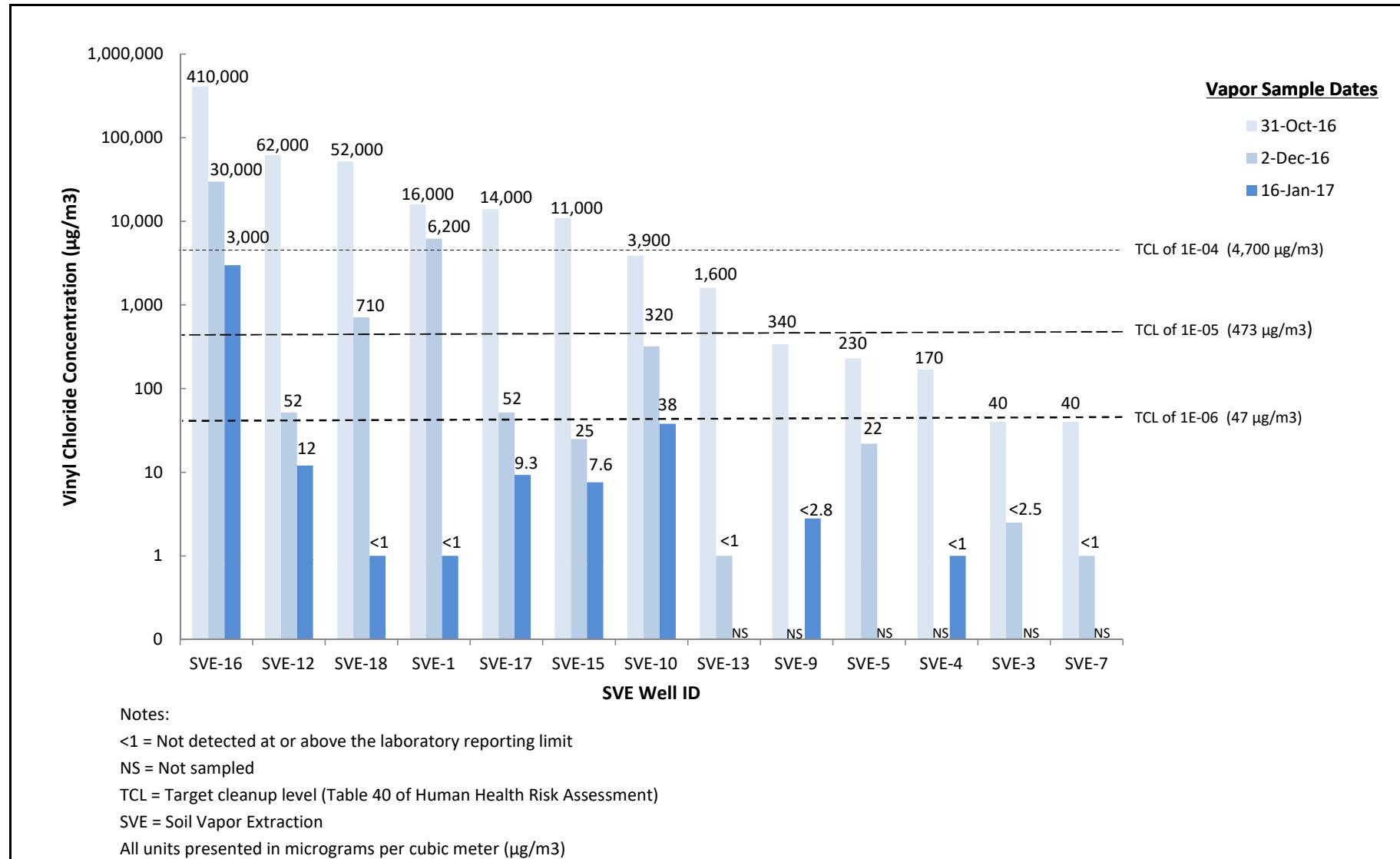
NE = Not established

-- = Not applicable/not analyzed

TCL = Target Cleanup Level for Lifetime Excess Cancer Risk (LECR) presented in Table 40 of the November 2016 Human Health Risk Assessment Report.

PLATES





PES Environmental, Inc.
Engineering & Environmental Services

1448.001.02.005

144800102005.xlsx

JOB NUMBER

Vinyl Chloride Concentrations in SVE Wells
6701, 6705, and 6707 Shellmound Street
Emeryville, California

CJB

REVIEWED BY

PLATE

2

2/17

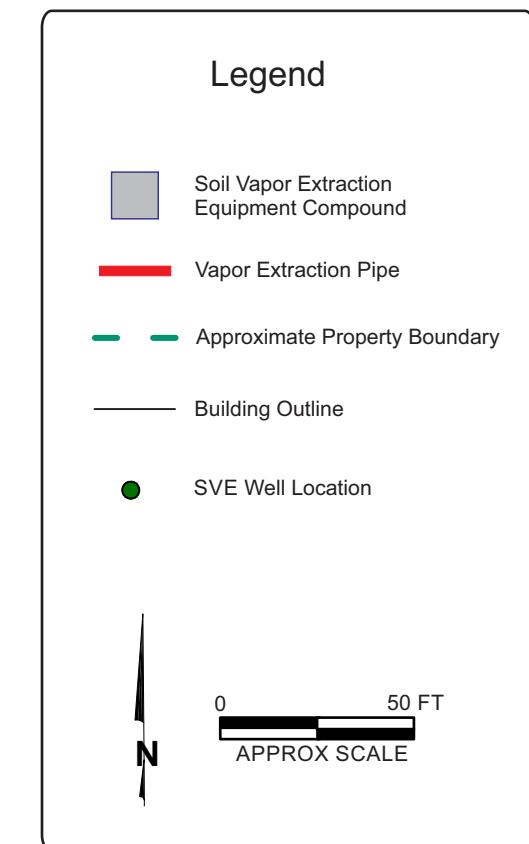
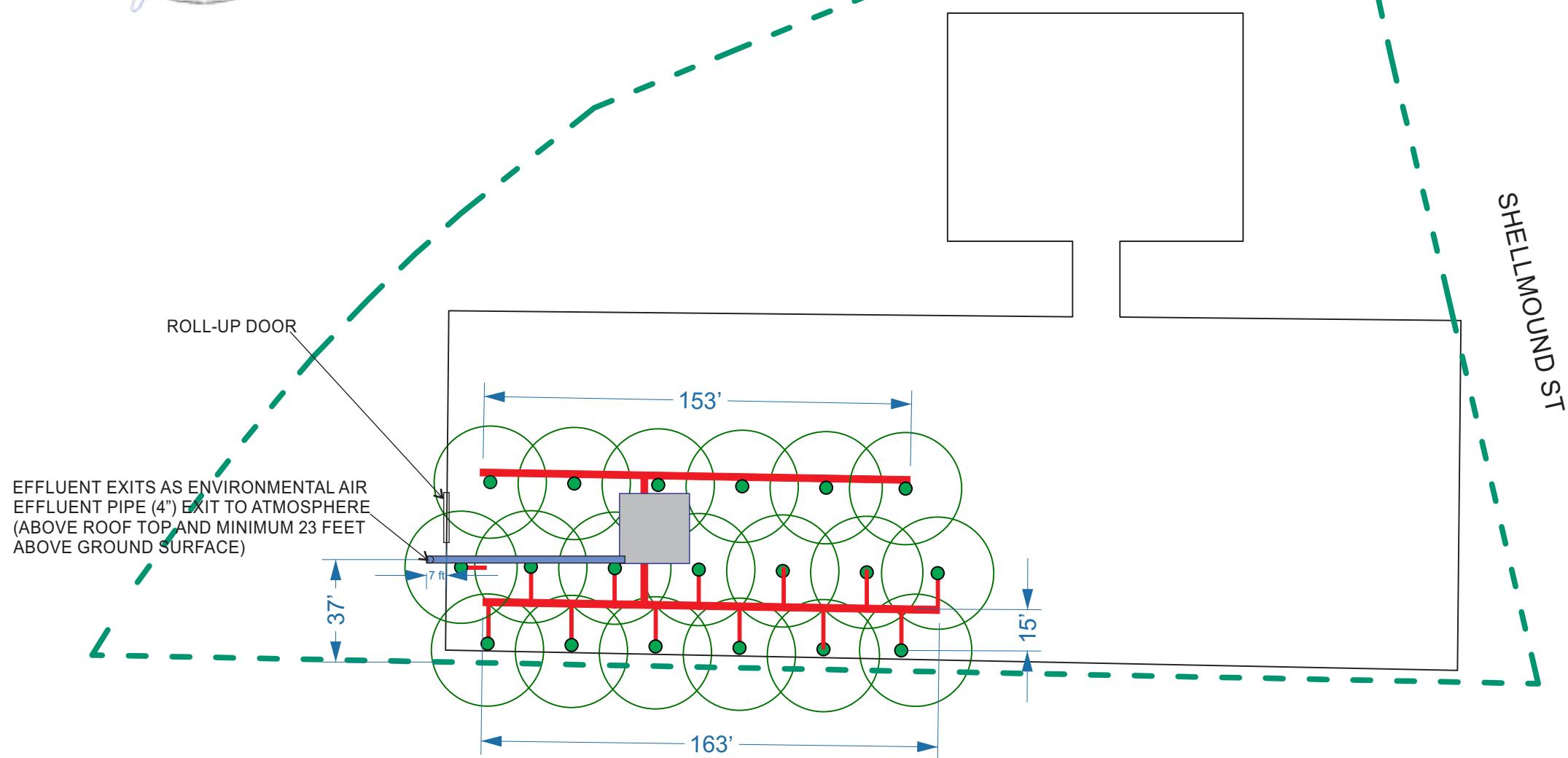
DATE

APPENDIX A

AS-BUILT DRAWINGS OF SVE SYSTEM



AIGUO
XU
No. 72685
Exp. 6/30/2018
CIVIL
State of CALIFORNIA
10/10/2016



MIKE ROBERTS COLOR PRODUCTION
6701 SHELLMOUND STREET
EMERYVILLE, CALIFORNIA

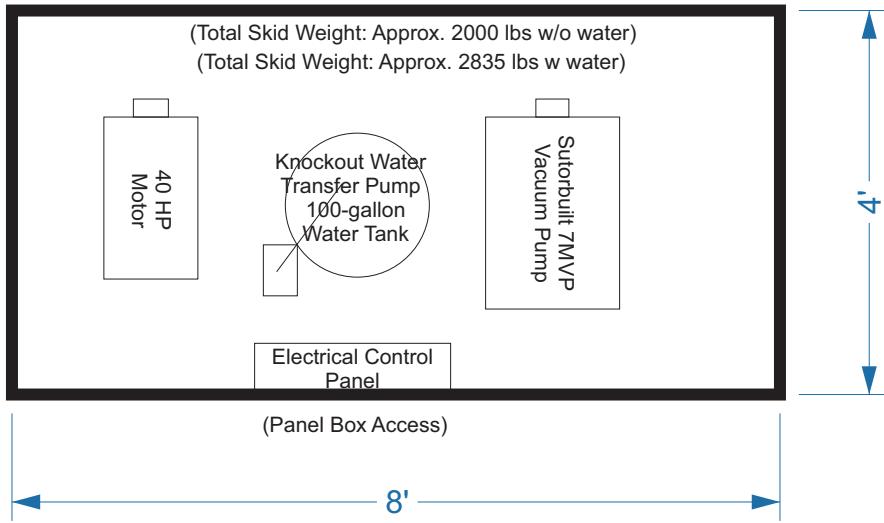
SITE PLAN



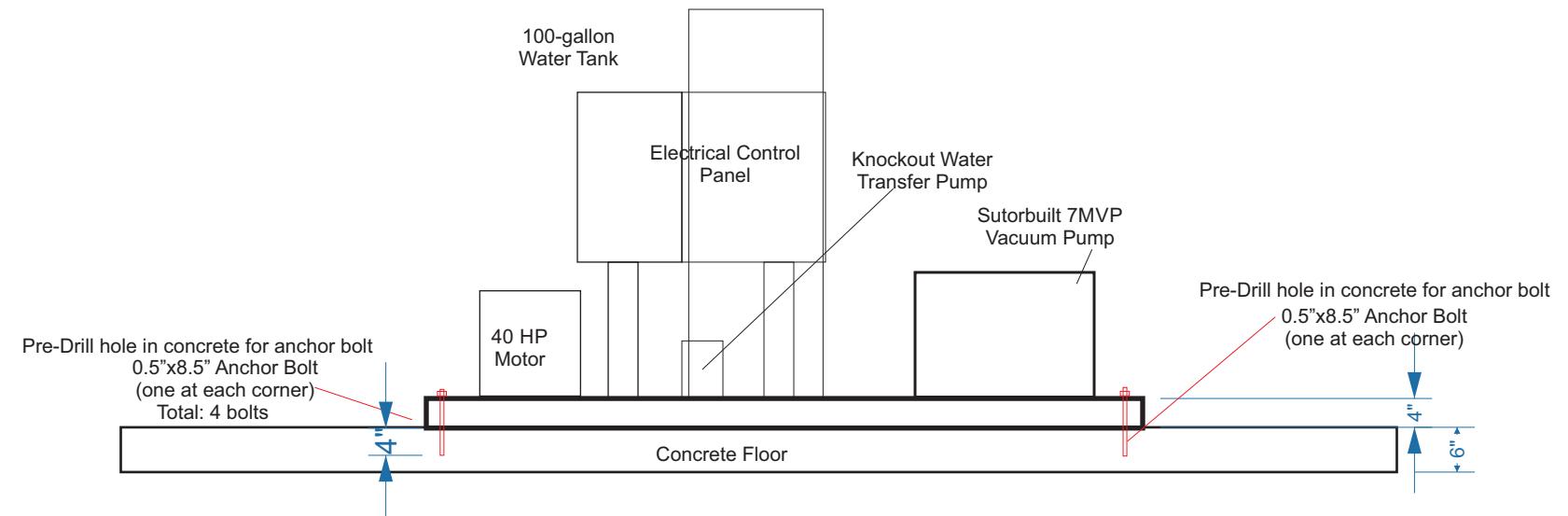
E2C
Environmental
Engineering,
Consulting &
Remediation, Inc.
1020 Winding Creek Rd., #110, Roseville, CA 95678
Phone: (916) 782-8700 Fax: (916) 782-8750

FIGURE

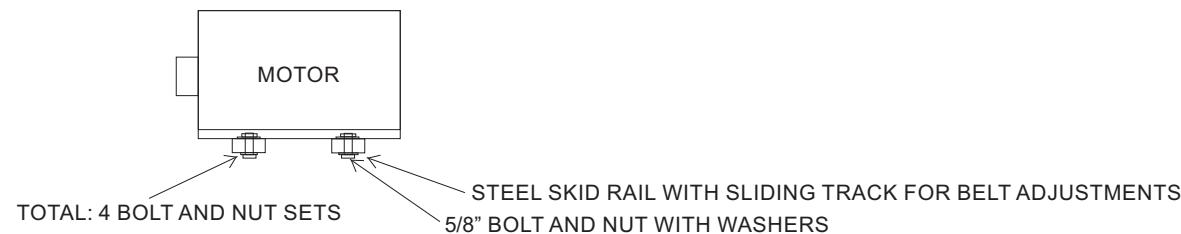
3



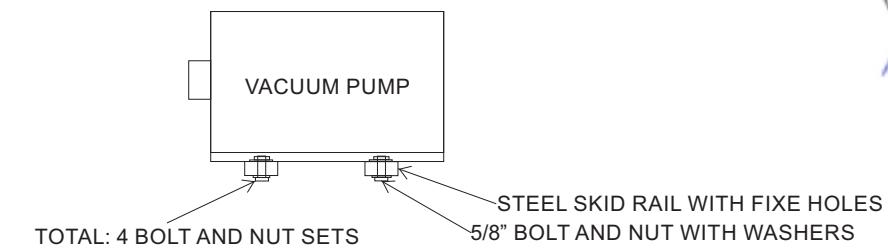
SOIL VAPOR EXTRACTION EQUIPMENT SKID LAYOUT



SKID ANCHORING CONSTRUCTION DETAILS



MOTOR MOUNTING DETAILS



VACUUM PUMP MOUNTING DETAILS



Environmental
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MIKE ROBERTS COLOR PRODUCTION
6701 SHELLMOUND STREET
EMERYVILLE, CALIFORNIA

EQUIPMENT SKID LAYOUT AND EQUIPMENT MOUNTING AND ANCHORING DETAILS

FIGURE
4

APPENDIX B

**LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY
DOCUMENTATION**

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Sacramento

880 Riverside Parkway
West Sacramento, CA 95605

Tel: (916)373-5600

TestAmerica Job ID: 320-25032-1

Client Project/Site: 6701 Shellmound St, Emeryville Air

For:

PES Environmental, Inc.
7665 Redwood Blvd
Suite #200
Novato, California 94945

Attn: Mr. Kyle Flory



Authorized for release by:

1/23/2017 5:48:26 PM

Lee Ann Heathcote, Project Manager II
(916)373-5600
leeann.heathcote@testamericainc.com

LINKS

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results through

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The
Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Definitions/Glossary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

1

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Case Narrative

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Job ID: 320-25032-1

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative 320-25032-1

Receipt

The samples were received on 1/16/2017 3:05 PM; the samples arrived in good condition.

Air - GC/MS VOA

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

Detection Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-1

Lab Sample ID: 320-25032-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	26		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.68		0.40		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.2		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.53		0.40		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.4		0.40		ppb v/v	1		TO-15	Total/NA
Toluene	2.5		0.40		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	4.8		0.80		ppb v/v	1		TO-15	Total/NA
o-Xylene	1.4		0.40		ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	61		12		ug/m3	1		TO-15	Total/NA
Benzene	2.2		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.5		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.6		2.0		ug/m3	1		TO-15	Total/NA
Ethylbenzene	6.0		1.7		ug/m3	1		TO-15	Total/NA
Toluene	9.3		1.5		ug/m3	1		TO-15	Total/NA
m,p-Xylene	21		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	6.0		1.7		ug/m3	1		TO-15	Total/NA

Client Sample ID: SVE-4

Lab Sample ID: 320-25032-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.55		0.40		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.4		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.47		0.40		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.0		0.40		ppb v/v	1		TO-15	Total/NA
Toluene	1.8		0.40		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	3.6		0.80		ppb v/v	1		TO-15	Total/NA
o-Xylene	1.0		0.40		ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	43		12		ug/m3	1		TO-15	Total/NA
Benzene	1.7		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	4.1		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.3		2.0		ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.5		1.7		ug/m3	1		TO-15	Total/NA
Toluene	6.9		1.5		ug/m3	1		TO-15	Total/NA
m,p-Xylene	16		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	4.5		1.7		ug/m3	1		TO-15	Total/NA

Client Sample ID: SVE-9

Lab Sample ID: 320-25032-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.51		0.40		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.94		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.45		0.40		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.0		0.40		ppb v/v	1		TO-15	Total/NA
Toluene	2.0		0.40		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	3.6		0.80		ppb v/v	1		TO-15	Total/NA
o-Xylene	0.99		0.40		ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-9 (Continued)

Lab Sample ID: 320-25032-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	41		12		ug/m3	1		TO-15	Total/NA
Benzene	1.6		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.8		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.2		2.0		ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.4		1.7		ug/m3	1		TO-15	Total/NA
Toluene	7.5		1.5		ug/m3	1		TO-15	Total/NA
m,p-Xylene	16		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	4.3		1.7		ug/m3	1		TO-15	Total/NA

Client Sample ID: SVE-10

Lab Sample ID: 320-25032-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.7		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	16		0.40		ppb v/v	1		TO-15	Total/NA
Carbon disulfide	5.4		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.40		ppb v/v	1		TO-15	Total/NA
1,1-Dichloroethene	1.4		0.80		ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	3.7		0.40		ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.63		0.40		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.70		0.40		ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.48		0.40		ppb v/v	1		TO-15	Total/NA
Toluene	4.0		0.40		ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.75		0.40		ppb v/v	1		TO-15	Total/NA
Vinyl chloride	15		0.40		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	4.4		0.80		ppb v/v	1		TO-15	Total/NA
o-Xylene	0.73		0.40		ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14		12		ug/m3	1		TO-15	Total/NA
Benzene	52		1.3		ug/m3	1		TO-15	Total/NA
Carbon disulfide	17		2.5		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		2.0		ug/m3	1		TO-15	Total/NA
1,1-Dichloroethene	5.4		3.2		ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	15		1.6		ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	2.5		1.6		ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.1		1.7		ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.7		1.4		ug/m3	1		TO-15	Total/NA
Toluene	15		1.5		ug/m3	1		TO-15	Total/NA
Trichloroethene	4.0		2.1		ug/m3	1		TO-15	Total/NA
Vinyl chloride	38		1.0		ug/m3	1		TO-15	Total/NA
m,p-Xylene	19		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	3.2		1.7		ug/m3	1		TO-15	Total/NA

Client Sample ID: SVE-12

Lab Sample ID: 320-25032-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.50		0.40		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.1		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.40		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.1		0.40		ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-12 (Continued)

Lab Sample ID: 320-25032-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.8		0.40		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	4.0		0.80		ppb v/v	1		TO-15	Total/NA
o-Xylene	1.1		0.40		ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	40		12		ug/m3	1		TO-15	Total/NA
Benzene	1.6		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.2		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		2.0		ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.8		1.7		ug/m3	1		TO-15	Total/NA
Toluene	6.9		1.5		ug/m3	1		TO-15	Total/NA
m,p-Xylene	17		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	4.9		1.7		ug/m3	1		TO-15	Total/NA

Client Sample ID: SVE-15

Lab Sample ID: 320-25032-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	23		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.69		0.40		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	17		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.49		0.40		ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	0.90		0.40		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.4		0.40		ppb v/v	1		TO-15	Total/NA
Toluene	2.4		0.40		ppb v/v	1		TO-15	Total/NA
Vinyl chloride	3.0		0.40		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	5.9		0.80		ppb v/v	1		TO-15	Total/NA
o-Xylene	1.8		0.40		ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	54		12		ug/m3	1		TO-15	Total/NA
Benzene	2.2		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	50		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.4		2.0		ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	3.6		1.6		ug/m3	1		TO-15	Total/NA
Ethylbenzene	6.2		1.7		ug/m3	1		TO-15	Total/NA
Toluene	8.9		1.5		ug/m3	1		TO-15	Total/NA
Vinyl chloride	7.6		1.0		ug/m3	1		TO-15	Total/NA
m,p-Xylene	25		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	7.8		1.7		ug/m3	1		TO-15	Total/NA

Client Sample ID: SVE-16

Lab Sample ID: 320-25032-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8400		130		ppb v/v	317		TO-15	Total/NA
trans-1,2-Dichloroethene	1600		130		ppb v/v	317		TO-15	Total/NA
Vinyl chloride	1200		130		ppb v/v	317		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33000		500		ug/m3	317		TO-15	Total/NA
trans-1,2-Dichloroethene	6200		500		ug/m3	317		TO-15	Total/NA
Vinyl chloride	3000		320		ug/m3	317		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-17

Lab Sample ID: 320-25032-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	19		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.46		0.40		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	1.2		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.51		0.40		ppb v/v	1		TO-15	Total/NA
cis-1,2-Dichloroethene	2.2		0.40		ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	0.52		0.40		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.6		0.40		ppb v/v	1		TO-15	Total/NA
Toluene	2.7		0.40		ppb v/v	1		TO-15	Total/NA
Vinyl chloride	3.6		0.40		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	4.8		0.80		ppb v/v	1		TO-15	Total/NA
o-Xylene	1.2		0.40		ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	45		12		ug/m3	1		TO-15	Total/NA
Benzene	1.5		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	3.4		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		2.0		ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	8.8		1.6		ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	2.1		1.6		ug/m3	1		TO-15	Total/NA
Ethylbenzene	7.0		1.7		ug/m3	1		TO-15	Total/NA
Toluene	10		1.5		ug/m3	1		TO-15	Total/NA
Vinyl chloride	9.3		1.0		ug/m3	1		TO-15	Total/NA
m,p-Xylene	21		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	5.4		1.7		ug/m3	1		TO-15	Total/NA

Client Sample ID: SVE-18

Lab Sample ID: 320-25032-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.46		0.40		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	5.3		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.50		0.40		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.0		0.40		ppb v/v	1		TO-15	Total/NA
Toluene	1.6		0.40		ppb v/v	1		TO-15	Total/NA
m,p-Xylene	3.7		0.80		ppb v/v	1		TO-15	Total/NA
o-Xylene	1.1		0.40		ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	35		12		ug/m3	1		TO-15	Total/NA
Benzene	1.5		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	16		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.5		2.0		ug/m3	1		TO-15	Total/NA
Ethylbenzene	4.4		1.7		ug/m3	1		TO-15	Total/NA
Toluene	6.2		1.5		ug/m3	1		TO-15	Total/NA
m,p-Xylene	16		3.5		ug/m3	1		TO-15	Total/NA
o-Xylene	4.6		1.7		ug/m3	1		TO-15	Total/NA

Client Sample ID: SVE-Influent

Lab Sample ID: 320-25032-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.61		0.40		ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Detection Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-Influent (Continued)

Lab Sample ID: 320-25032-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.2		0.80		ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane	0.52		0.40		ppb v/v	1		TO-15	Total/NA
Toluene	0.92		0.40		ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.42		0.40		ppb v/v	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	32		12		ug/m3	1		TO-15	Total/NA
Benzene	2.0		1.3		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	6.5		2.4		ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane	2.6		2.0		ug/m3	1		TO-15	Total/NA
Toluene	3.5		1.5		ug/m3	1		TO-15	Total/NA
Trichloroethene	2.3		2.1		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-1

Date Collected: 01/16/17 10:04

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26		5.0		ppb v/v			01/19/17 08:17	1
Benzene	0.68		0.40		ppb v/v			01/19/17 08:17	1
Benzyl chloride	ND		0.80		ppb v/v			01/19/17 08:17	1
Bromodichloromethane	ND		0.30		ppb v/v			01/19/17 08:17	1
Bromoform	ND		0.40		ppb v/v			01/19/17 08:17	1
Bromomethane	ND		0.80		ppb v/v			01/19/17 08:17	1
2-Butanone (MEK)	1.2		0.80		ppb v/v			01/19/17 08:17	1
Carbon disulfide	ND		0.80		ppb v/v			01/19/17 08:17	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/19/17 08:17	1
Chlorobenzene	ND		0.30		ppb v/v			01/19/17 08:17	1
Dibromochloromethane	ND		0.40		ppb v/v			01/19/17 08:17	1
Chloroethane	ND		0.80		ppb v/v			01/19/17 08:17	1
Chloroform	ND		0.30		ppb v/v			01/19/17 08:17	1
Chloromethane	ND		0.80		ppb v/v			01/19/17 08:17	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/19/17 08:17	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 08:17	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 08:17	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 08:17	1
Dichlorodifluoromethane	0.53		0.40		ppb v/v			01/19/17 08:17	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/19/17 08:17	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/19/17 08:17	1
1,1-Dichloroethene	ND		0.80		ppb v/v			01/19/17 08:17	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			01/19/17 08:17	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			01/19/17 08:17	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/19/17 08:17	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/19/17 08:17	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/19/17 08:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/19/17 08:17	1
Ethylbenzene	1.4		0.40		ppb v/v			01/19/17 08:17	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/19/17 08:17	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/19/17 08:17	1
2-Hexanone	ND		0.40		ppb v/v			01/19/17 08:17	1
Methylene Chloride	ND		0.40		ppb v/v			01/19/17 08:17	1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/19/17 08:17	1
Styrene	ND		0.40		ppb v/v			01/19/17 08:17	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/19/17 08:17	1
Tetrachloroethene	ND		0.40		ppb v/v			01/19/17 08:17	1
Toluene	2.5		0.40		ppb v/v			01/19/17 08:17	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/19/17 08:17	1
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/19/17 08:17	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/19/17 08:17	1
Trichloroethene	ND		0.40		ppb v/v			01/19/17 08:17	1
1,4-Dioxane	ND		0.80		ppb v/v			01/19/17 08:17	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/19/17 08:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/19/17 08:17	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/19/17 08:17	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/19/17 08:17	1
Vinyl acetate	ND		0.80		ppb v/v			01/19/17 08:17	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-1

Date Collected: 01/16/17 10:04

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.40		ppb v/v			01/19/17 08:17	1
m,p-Xylene	4.8		0.80		ppb v/v			01/19/17 08:17	1
o-Xylene	1.4		0.40		ppb v/v			01/19/17 08:17	1
Naphthalene	ND		0.80		ppb v/v			01/19/17 08:17	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	61		12		ug/m ³			01/19/17 08:17	1
Benzene	2.2		1.3		ug/m ³			01/19/17 08:17	1
Benzyl chloride	ND		4.1		ug/m ³			01/19/17 08:17	1
Bromodichloromethane	ND		2.0		ug/m ³			01/19/17 08:17	1
Bromoform	ND		4.1		ug/m ³			01/19/17 08:17	1
Bromomethane	ND		3.1		ug/m ³			01/19/17 08:17	1
2-Butanone (MEK)	3.5		2.4		ug/m ³			01/19/17 08:17	1
Carbon disulfide	ND		2.5		ug/m ³			01/19/17 08:17	1
Carbon tetrachloride	ND		5.0		ug/m ³			01/19/17 08:17	1
Chlorobenzene	ND		1.4		ug/m ³			01/19/17 08:17	1
Dibromochloromethane	ND		3.4		ug/m ³			01/19/17 08:17	1
Chloroethane	ND		2.1		ug/m ³			01/19/17 08:17	1
Chloroform	ND		1.5		ug/m ³			01/19/17 08:17	1
Chloromethane	ND		1.7		ug/m ³			01/19/17 08:17	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m ³			01/19/17 08:17	1
1,2-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 08:17	1
1,3-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 08:17	1
1,4-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 08:17	1
Dichlorodifluoromethane	2.6		2.0		ug/m ³			01/19/17 08:17	1
1,1-Dichloroethane	ND		1.2		ug/m ³			01/19/17 08:17	1
1,2-Dichloroethane	ND		3.2		ug/m ³			01/19/17 08:17	1
1,1-Dichloroethene	ND		3.2		ug/m ³			01/19/17 08:17	1
cis-1,2-Dichloroethene	ND		1.6		ug/m ³			01/19/17 08:17	1
trans-1,2-Dichloroethene	ND		1.6		ug/m ³			01/19/17 08:17	1
1,2-Dichloropropane	ND		1.8		ug/m ³			01/19/17 08:17	1
cis-1,3-Dichloropropene	ND		1.8		ug/m ³			01/19/17 08:17	1
trans-1,3-Dichloropropene	ND		1.8		ug/m ³			01/19/17 08:17	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m ³			01/19/17 08:17	1
Ethylbenzene	6.0		1.7		ug/m ³			01/19/17 08:17	1
4-Ethyltoluene	ND		2.0		ug/m ³			01/19/17 08:17	1
Hexachlorobutadiene	ND		21		ug/m ³			01/19/17 08:17	1
2-Hexanone	ND		1.6		ug/m ³			01/19/17 08:17	1
Methylene Chloride	ND		1.4		ug/m ³			01/19/17 08:17	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m ³			01/19/17 08:17	1
Styrene	ND		1.7		ug/m ³			01/19/17 08:17	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m ³			01/19/17 08:17	1
Tetrachloroethene	ND		2.7		ug/m ³			01/19/17 08:17	1
Toluene	9.3		1.5		ug/m ³			01/19/17 08:17	1
1,2,4-Trichlorobenzene	ND		15		ug/m ³			01/19/17 08:17	1
1,1,1-Trichloroethane	ND		1.6		ug/m ³			01/19/17 08:17	1
1,1,2-Trichloroethane	ND		2.2		ug/m ³			01/19/17 08:17	1
Trichloroethene	ND		2.1		ug/m ³			01/19/17 08:17	1
1,4-Dioxane	ND		2.9		ug/m ³			01/19/17 08:17	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-1

Date Collected: 01/16/17 10:04

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		2.2		ug/m3			01/19/17 08:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			01/19/17 08:17	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			01/19/17 08:17	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			01/19/17 08:17	1
Vinyl acetate	ND		2.8		ug/m3			01/19/17 08:17	1
Vinyl chloride	ND		1.0		ug/m3			01/19/17 08:17	1
m,p-Xylene	21		3.5		ug/m3			01/19/17 08:17	1
o-Xylene	6.0		1.7		ug/m3			01/19/17 08:17	1
Naphthalene	ND		4.2		ug/m3			01/19/17 08:17	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		101		70 - 130				01/19/17 08:17	1
1,2-Dichloroethane-d4 (Surr)		101		70 - 130				01/19/17 08:17	1
Toluene-d8 (Surr)		101		70 - 130				01/19/17 08:17	1

Client Sample ID: SVE-4

Date Collected: 01/16/17 10:32

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	18		5.0		ppb v/v			01/18/17 19:50	1
Benzene	0.55		0.40		ppb v/v			01/18/17 19:50	1
Benzyl chloride	ND		0.80		ppb v/v			01/18/17 19:50	1
Bromodichloromethane	ND		0.30		ppb v/v			01/18/17 19:50	1
Bromoform	ND		0.40		ppb v/v			01/18/17 19:50	1
Bromomethane	ND		0.80		ppb v/v			01/18/17 19:50	1
2-Butanone (MEK)	1.4		0.80		ppb v/v			01/18/17 19:50	1
Carbon disulfide	ND		0.80		ppb v/v			01/18/17 19:50	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/18/17 19:50	1
Chlorobenzene	ND		0.30		ppb v/v			01/18/17 19:50	1
Dibromochloromethane	ND		0.40		ppb v/v			01/18/17 19:50	1
Chloroethane	ND		0.80		ppb v/v			01/18/17 19:50	1
Chloroform	ND		0.30		ppb v/v			01/18/17 19:50	1
Chloromethane	ND		0.80		ppb v/v			01/18/17 19:50	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/18/17 19:50	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 19:50	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 19:50	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 19:50	1
Dichlorodifluoromethane	0.47		0.40		ppb v/v			01/18/17 19:50	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/18/17 19:50	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/18/17 19:50	1
1,1-Dichloroethene	ND		0.80		ppb v/v			01/18/17 19:50	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 19:50	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 19:50	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/18/17 19:50	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 19:50	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 19:50	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-4

Date Collected: 01/16/17 10:32

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/18/17 19:50	1
Ethylbenzene	1.0		0.40		ppb v/v			01/18/17 19:50	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/18/17 19:50	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/18/17 19:50	1
2-Hexanone	ND		0.40		ppb v/v			01/18/17 19:50	1
Methylene Chloride	ND		0.40		ppb v/v			01/18/17 19:50	1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/18/17 19:50	1
Styrene	ND		0.40		ppb v/v			01/18/17 19:50	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/18/17 19:50	1
Tetrachloroethene	ND		0.40		ppb v/v			01/18/17 19:50	1
Toluene	1.8		0.40		ppb v/v			01/18/17 19:50	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/18/17 19:50	1
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/18/17 19:50	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/18/17 19:50	1
Trichloroethene	ND		0.40		ppb v/v			01/18/17 19:50	1
1,4-Dioxane	ND		0.80		ppb v/v			01/18/17 19:50	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/18/17 19:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/18/17 19:50	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/18/17 19:50	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/18/17 19:50	1
Vinyl acetate	ND		0.80		ppb v/v			01/18/17 19:50	1
Vinyl chloride	ND		0.40		ppb v/v			01/18/17 19:50	1
m,p-Xylene	3.6		0.80		ppb v/v			01/18/17 19:50	1
o-Xylene	1.0		0.40		ppb v/v			01/18/17 19:50	1
Naphthalene	ND		0.80		ppb v/v			01/18/17 19:50	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	43		12		ug/m3			01/18/17 19:50	1
Benzene	1.7		1.3		ug/m3			01/18/17 19:50	1
Benzyl chloride	ND		4.1		ug/m3			01/18/17 19:50	1
Bromodichloromethane	ND		2.0		ug/m3			01/18/17 19:50	1
Bromoform	ND		4.1		ug/m3			01/18/17 19:50	1
Bromomethane	ND		3.1		ug/m3			01/18/17 19:50	1
2-Butanone (MEK)	4.1		2.4		ug/m3			01/18/17 19:50	1
Carbon disulfide	ND		2.5		ug/m3			01/18/17 19:50	1
Carbon tetrachloride	ND		5.0		ug/m3			01/18/17 19:50	1
Chlorobenzene	ND		1.4		ug/m3			01/18/17 19:50	1
Dibromochloromethane	ND		3.4		ug/m3			01/18/17 19:50	1
Chloroethane	ND		2.1		ug/m3			01/18/17 19:50	1
Chloroform	ND		1.5		ug/m3			01/18/17 19:50	1
Chloromethane	ND		1.7		ug/m3			01/18/17 19:50	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			01/18/17 19:50	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			01/18/17 19:50	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			01/18/17 19:50	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			01/18/17 19:50	1
Dichlorodifluoromethane	2.3		2.0		ug/m3			01/18/17 19:50	1
1,1-Dichloroethane	ND		1.2		ug/m3			01/18/17 19:50	1
1,2-Dichloroethane	ND		3.2		ug/m3			01/18/17 19:50	1
1,1-Dichloroethene	ND		3.2		ug/m3			01/18/17 19:50	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-4

Date Collected: 01/16/17 10:32

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			01/18/17 19:50	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			01/18/17 19:50	1
1,2-Dichloropropane	ND		1.8		ug/m3			01/18/17 19:50	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			01/18/17 19:50	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			01/18/17 19:50	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			01/18/17 19:50	1
Ethylbenzene	4.5		1.7		ug/m3			01/18/17 19:50	1
4-Ethyltoluene	ND		2.0		ug/m3			01/18/17 19:50	1
Hexachlorobutadiene	ND		21		ug/m3			01/18/17 19:50	1
2-Hexanone	ND		1.6		ug/m3			01/18/17 19:50	1
Methylene Chloride	ND		1.4		ug/m3			01/18/17 19:50	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			01/18/17 19:50	1
Styrene	ND		1.7		ug/m3			01/18/17 19:50	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			01/18/17 19:50	1
Tetrachloroethene	ND		2.7		ug/m3			01/18/17 19:50	1
Toluene	6.9		1.5		ug/m3			01/18/17 19:50	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			01/18/17 19:50	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			01/18/17 19:50	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			01/18/17 19:50	1
Trichloroethene	ND		2.1		ug/m3			01/18/17 19:50	1
1,4-Dioxane	ND		2.9		ug/m3			01/18/17 19:50	1
Trichlorofluoromethane	ND		2.2		ug/m3			01/18/17 19:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			01/18/17 19:50	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			01/18/17 19:50	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			01/18/17 19:50	1
Vinyl acetate	ND		2.8		ug/m3			01/18/17 19:50	1
Vinyl chloride	ND		1.0		ug/m3			01/18/17 19:50	1
m,p-Xylene	16		3.5		ug/m3			01/18/17 19:50	1
o-Xylene	4.5		1.7		ug/m3			01/18/17 19:50	1
Naphthalene	ND		4.2		ug/m3			01/18/17 19:50	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99			70 - 130				01/18/17 19:50	1
1,2-Dichloroethane-d4 (Surr)	100			70 - 130				01/18/17 19:50	1
Toluene-d8 (Surr)	103			70 - 130				01/18/17 19:50	1

Client Sample ID: SVE-9

Date Collected: 01/16/17 10:52

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17		5.0		ppb v/v			01/18/17 20:48	1
Benzene	0.51		0.40		ppb v/v			01/18/17 20:48	1
Benzyl chloride	ND		0.80		ppb v/v			01/18/17 20:48	1
Bromodichloromethane	ND		0.30		ppb v/v			01/18/17 20:48	1
Bromoform	ND		0.40		ppb v/v			01/18/17 20:48	1
Bromomethane	ND		0.80		ppb v/v			01/18/17 20:48	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-9

Date Collected: 01/16/17 10:52

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	0.94		0.80		ppb v/v			01/18/17 20:48	1
Carbon disulfide	ND		0.80		ppb v/v			01/18/17 20:48	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/18/17 20:48	1
Chlorobenzene	ND		0.30		ppb v/v			01/18/17 20:48	1
Dibromochloromethane	ND		0.40		ppb v/v			01/18/17 20:48	1
Chloroethane	ND		0.80		ppb v/v			01/18/17 20:48	1
Chloroform	ND		0.30		ppb v/v			01/18/17 20:48	1
Chloromethane	ND		0.80		ppb v/v			01/18/17 20:48	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/18/17 20:48	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 20:48	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 20:48	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 20:48	1
Dichlorodifluoromethane	0.45		0.40		ppb v/v			01/18/17 20:48	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/18/17 20:48	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/18/17 20:48	1
1,1-Dichloroethene	ND		0.80		ppb v/v			01/18/17 20:48	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 20:48	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 20:48	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/18/17 20:48	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 20:48	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 20:48	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/18/17 20:48	1
Ethylbenzene	1.0		0.40		ppb v/v			01/18/17 20:48	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/18/17 20:48	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/18/17 20:48	1
2-Hexanone	ND		0.40		ppb v/v			01/18/17 20:48	1
Methylene Chloride	ND		0.40		ppb v/v			01/18/17 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/18/17 20:48	1
Styrene	ND		0.40		ppb v/v			01/18/17 20:48	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/18/17 20:48	1
Tetrachloroethene	ND		0.40		ppb v/v			01/18/17 20:48	1
Toluene	2.0		0.40		ppb v/v			01/18/17 20:48	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/18/17 20:48	1
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/18/17 20:48	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/18/17 20:48	1
Trichloroethene	ND		0.40		ppb v/v			01/18/17 20:48	1
1,4-Dioxane	ND		0.80		ppb v/v			01/18/17 20:48	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/18/17 20:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/18/17 20:48	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/18/17 20:48	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/18/17 20:48	1
Vinyl acetate	ND		0.80		ppb v/v			01/18/17 20:48	1
Vinyl chloride	ND		0.40		ppb v/v			01/18/17 20:48	1
m,p-Xylene	3.6		0.80		ppb v/v			01/18/17 20:48	1
o-Xylene	0.99		0.40		ppb v/v			01/18/17 20:48	1
Naphthalene	ND		0.80		ppb v/v			01/18/17 20:48	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	41		12		ug/m3			01/18/17 20:48	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-9

Date Collected: 01/16/17 10:52

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.6		1.3		ug/m ³			01/18/17 20:48	1
Benzyl chloride	ND		4.1		ug/m ³			01/18/17 20:48	1
Bromodichloromethane	ND		2.0		ug/m ³			01/18/17 20:48	1
Bromoform	ND		4.1		ug/m ³			01/18/17 20:48	1
Bromomethane	ND		3.1		ug/m ³			01/18/17 20:48	1
2-Butanone (MEK)	2.8		2.4		ug/m ³			01/18/17 20:48	1
Carbon disulfide	ND		2.5		ug/m ³			01/18/17 20:48	1
Carbon tetrachloride	ND		5.0		ug/m ³			01/18/17 20:48	1
Chlorobenzene	ND		1.4		ug/m ³			01/18/17 20:48	1
Dibromochloromethane	ND		3.4		ug/m ³			01/18/17 20:48	1
Chloroethane	ND		2.1		ug/m ³			01/18/17 20:48	1
Chloroform	ND		1.5		ug/m ³			01/18/17 20:48	1
Chloromethane	ND		1.7		ug/m ³			01/18/17 20:48	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m ³			01/18/17 20:48	1
1,2-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 20:48	1
1,3-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 20:48	1
1,4-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 20:48	1
Dichlorodifluoromethane	2.2		2.0		ug/m ³			01/18/17 20:48	1
1,1-Dichloroethane	ND		1.2		ug/m ³			01/18/17 20:48	1
1,2-Dichloroethane	ND		3.2		ug/m ³			01/18/17 20:48	1
1,1-Dichloroethene	ND		3.2		ug/m ³			01/18/17 20:48	1
cis-1,2-Dichloroethene	ND		1.6		ug/m ³			01/18/17 20:48	1
trans-1,2-Dichloroethene	ND		1.6		ug/m ³			01/18/17 20:48	1
1,2-Dichloropropane	ND		1.8		ug/m ³			01/18/17 20:48	1
cis-1,3-Dichloropropene	ND		1.8		ug/m ³			01/18/17 20:48	1
trans-1,3-Dichloropropene	ND		1.8		ug/m ³			01/18/17 20:48	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m ³			01/18/17 20:48	1
Ethylbenzene	4.4		1.7		ug/m ³			01/18/17 20:48	1
4-Ethyltoluene	ND		2.0		ug/m ³			01/18/17 20:48	1
Hexachlorobutadiene	ND		21		ug/m ³			01/18/17 20:48	1
2-Hexanone	ND		1.6		ug/m ³			01/18/17 20:48	1
Methylene Chloride	ND		1.4		ug/m ³			01/18/17 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m ³			01/18/17 20:48	1
Styrene	ND		1.7		ug/m ³			01/18/17 20:48	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m ³			01/18/17 20:48	1
Tetrachloroethene	ND		2.7		ug/m ³			01/18/17 20:48	1
Toluene	7.5		1.5		ug/m ³			01/18/17 20:48	1
1,2,4-Trichlorobenzene	ND		15		ug/m ³			01/18/17 20:48	1
1,1,1-Trichloroethane	ND		1.6		ug/m ³			01/18/17 20:48	1
1,1,2-Trichloroethane	ND		2.2		ug/m ³			01/18/17 20:48	1
Trichloroethene	ND		2.1		ug/m ³			01/18/17 20:48	1
1,4-Dioxane	ND		2.9		ug/m ³			01/18/17 20:48	1
Trichlorofluoromethane	ND		2.2		ug/m ³			01/18/17 20:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m ³			01/18/17 20:48	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m ³			01/18/17 20:48	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m ³			01/18/17 20:48	1
Vinyl acetate	ND		2.8		ug/m ³			01/18/17 20:48	1
Vinyl chloride	ND		1.0		ug/m ³			01/18/17 20:48	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-9

Date Collected: 01/16/17 10:52

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	16		3.5		ug/m3			01/18/17 20:48	1
o-Xylene	4.3		1.7		ug/m3			01/18/17 20:48	1
Naphthalene	ND		4.2		ug/m3			01/18/17 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130					01/18/17 20:48	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130					01/18/17 20:48	1
Toluene-d8 (Surr)	100		70 - 130					01/18/17 20:48	1

Client Sample ID: SVE-10

Date Collected: 01/16/17 10:53

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.7		5.0		ppb v/v			01/18/17 21:43	1
Benzene	16		0.40		ppb v/v			01/18/17 21:43	1
Benzyl chloride	ND		0.80		ppb v/v			01/18/17 21:43	1
Bromodichloromethane	ND		0.30		ppb v/v			01/18/17 21:43	1
Bromoform	ND		0.40		ppb v/v			01/18/17 21:43	1
Bromomethane	ND		0.80		ppb v/v			01/18/17 21:43	1
2-Butanone (MEK)	ND		0.80		ppb v/v			01/18/17 21:43	1
Carbon disulfide	5.4		0.80		ppb v/v			01/18/17 21:43	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/18/17 21:43	1
Chlorobenzene	ND		0.30		ppb v/v			01/18/17 21:43	1
Dibromochloromethane	ND		0.40		ppb v/v			01/18/17 21:43	1
Chloroethane	ND		0.80		ppb v/v			01/18/17 21:43	1
Chloroform	ND		0.30		ppb v/v			01/18/17 21:43	1
Chloromethane	ND		0.80		ppb v/v			01/18/17 21:43	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/18/17 21:43	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 21:43	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 21:43	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 21:43	1
Dichlorodifluoromethane	0.50		0.40		ppb v/v			01/18/17 21:43	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/18/17 21:43	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/18/17 21:43	1
1,1-Dichloroethene	1.4		0.80		ppb v/v			01/18/17 21:43	1
cis-1,2-Dichloroethene	3.7		0.40		ppb v/v			01/18/17 21:43	1
trans-1,2-Dichloroethene	0.63		0.40		ppb v/v			01/18/17 21:43	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/18/17 21:43	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 21:43	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 21:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/18/17 21:43	1
Ethylbenzene	0.70		0.40		ppb v/v			01/18/17 21:43	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/18/17 21:43	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/18/17 21:43	1
2-Hexanone	ND		0.40		ppb v/v			01/18/17 21:43	1
Methylene Chloride	0.48		0.40		ppb v/v			01/18/17 21:43	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-10

Date Collected: 01/16/17 10:53

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/18/17 21:43	1
Styrene	ND		0.40		ppb v/v			01/18/17 21:43	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/18/17 21:43	1
Tetrachloroethene	ND		0.40		ppb v/v			01/18/17 21:43	1
Toluene	4.0		0.40		ppb v/v			01/18/17 21:43	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/18/17 21:43	1
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/18/17 21:43	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/18/17 21:43	1
Trichloroethene	0.75		0.40		ppb v/v			01/18/17 21:43	1
1,4-Dioxane	ND		0.80		ppb v/v			01/18/17 21:43	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/18/17 21:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/18/17 21:43	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/18/17 21:43	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/18/17 21:43	1
Vinyl acetate	ND		0.80		ppb v/v			01/18/17 21:43	1
Vinyl chloride	15		0.40		ppb v/v			01/18/17 21:43	1
m,p-Xylene	4.4		0.80		ppb v/v			01/18/17 21:43	1
o-Xylene	0.73		0.40		ppb v/v			01/18/17 21:43	1
Naphthalene	ND		0.80		ppb v/v			01/18/17 21:43	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	14		12		ug/m ³			01/18/17 21:43	1
Benzene	52		1.3		ug/m ³			01/18/17 21:43	1
Benzyl chloride	ND		4.1		ug/m ³			01/18/17 21:43	1
Bromodichloromethane	ND		2.0		ug/m ³			01/18/17 21:43	1
Bromoform	ND		4.1		ug/m ³			01/18/17 21:43	1
Bromomethane	ND		3.1		ug/m ³			01/18/17 21:43	1
2-Butanone (MEK)	ND		2.4		ug/m ³			01/18/17 21:43	1
Carbon disulfide	17		2.5		ug/m ³			01/18/17 21:43	1
Carbon tetrachloride	ND		5.0		ug/m ³			01/18/17 21:43	1
Chlorobenzene	ND		1.4		ug/m ³			01/18/17 21:43	1
Dibromochloromethane	ND		3.4		ug/m ³			01/18/17 21:43	1
Chloroethane	ND		2.1		ug/m ³			01/18/17 21:43	1
Chloroform	ND		1.5		ug/m ³			01/18/17 21:43	1
Chloromethane	ND		1.7		ug/m ³			01/18/17 21:43	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m ³			01/18/17 21:43	1
1,2-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 21:43	1
1,3-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 21:43	1
1,4-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 21:43	1
Dichlorodifluoromethane	2.5		2.0		ug/m ³			01/18/17 21:43	1
1,1-Dichloroethane	ND		1.2		ug/m ³			01/18/17 21:43	1
1,2-Dichloroethane	ND		3.2		ug/m ³			01/18/17 21:43	1
1,1-Dichloroethene	5.4		3.2		ug/m ³			01/18/17 21:43	1
cis-1,2-Dichloroethene	15		1.6		ug/m ³			01/18/17 21:43	1
trans-1,2-Dichloroethene	2.5		1.6		ug/m ³			01/18/17 21:43	1
1,2-Dichloropropane	ND		1.8		ug/m ³			01/18/17 21:43	1
cis-1,3-Dichloropropene	ND		1.8		ug/m ³			01/18/17 21:43	1
trans-1,3-Dichloropropene	ND		1.8		ug/m ³			01/18/17 21:43	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m ³			01/18/17 21:43	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-10

Date Collected: 01/16/17 10:53

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	3.1		1.7		ug/m3			01/18/17 21:43	1
4-Ethyltoluene	ND		2.0		ug/m3			01/18/17 21:43	1
Hexachlorobutadiene	ND		21		ug/m3			01/18/17 21:43	1
2-Hexanone	ND		1.6		ug/m3			01/18/17 21:43	1
Methylene Chloride	1.7		1.4		ug/m3			01/18/17 21:43	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			01/18/17 21:43	1
Styrene	ND		1.7		ug/m3			01/18/17 21:43	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			01/18/17 21:43	1
Tetrachloroethene	ND		2.7		ug/m3			01/18/17 21:43	1
Toluene	15		1.5		ug/m3			01/18/17 21:43	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			01/18/17 21:43	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			01/18/17 21:43	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			01/18/17 21:43	1
Trichloroethene	4.0		2.1		ug/m3			01/18/17 21:43	1
1,4-Dioxane	ND		2.9		ug/m3			01/18/17 21:43	1
Trichlorofluoromethane	ND		2.2		ug/m3			01/18/17 21:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			01/18/17 21:43	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			01/18/17 21:43	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			01/18/17 21:43	1
Vinyl acetate	ND		2.8		ug/m3			01/18/17 21:43	1
Vinyl chloride	38		1.0		ug/m3			01/18/17 21:43	1
m,p-Xylene	19		3.5		ug/m3			01/18/17 21:43	1
o-Xylene	3.2		1.7		ug/m3			01/18/17 21:43	1
Naphthalene	ND		4.2		ug/m3			01/18/17 21:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130					01/18/17 21:43	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130					01/18/17 21:43	1
Toluene-d8 (Surr)	102		70 - 130					01/18/17 21:43	1

Client Sample ID: SVE-12

Date Collected: 01/16/17 11:12

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17		5.0		ppb v/v			01/18/17 22:38	1
Benzene	0.50		0.40		ppb v/v			01/18/17 22:38	1
Benzyl chloride	ND		0.80		ppb v/v			01/18/17 22:38	1
Bromodichloromethane	ND		0.30		ppb v/v			01/18/17 22:38	1
Bromoform	ND		0.40		ppb v/v			01/18/17 22:38	1
Bromomethane	ND		0.80		ppb v/v			01/18/17 22:38	1
2-Butanone (MEK)	1.1		0.80		ppb v/v			01/18/17 22:38	1
Carbon disulfide	ND		0.80		ppb v/v			01/18/17 22:38	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/18/17 22:38	1
Chlorobenzene	ND		0.30		ppb v/v			01/18/17 22:38	1
Dibromochloromethane	ND		0.40		ppb v/v			01/18/17 22:38	1
Chloroethane	ND		0.80		ppb v/v			01/18/17 22:38	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-12

Date Collected: 01/16/17 11:12

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.30		ppb v/v			01/18/17 22:38	1
Chloromethane	ND		0.80		ppb v/v			01/18/17 22:38	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/18/17 22:38	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 22:38	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 22:38	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 22:38	1
Dichlorodifluoromethane	0.49		0.40		ppb v/v			01/18/17 22:38	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/18/17 22:38	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/18/17 22:38	1
1,1-Dichloroethene	ND		0.80		ppb v/v			01/18/17 22:38	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 22:38	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 22:38	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/18/17 22:38	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 22:38	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 22:38	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/18/17 22:38	1
Ethylbenzene	1.1		0.40		ppb v/v			01/18/17 22:38	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/18/17 22:38	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/18/17 22:38	1
2-Hexanone	ND		0.40		ppb v/v			01/18/17 22:38	1
Methylene Chloride	ND		0.40		ppb v/v			01/18/17 22:38	1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/18/17 22:38	1
Styrene	ND		0.40		ppb v/v			01/18/17 22:38	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/18/17 22:38	1
Tetrachloroethene	ND		0.40		ppb v/v			01/18/17 22:38	1
Toluene	1.8		0.40		ppb v/v			01/18/17 22:38	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/18/17 22:38	1
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/18/17 22:38	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/18/17 22:38	1
Trichloroethene	ND		0.40		ppb v/v			01/18/17 22:38	1
1,4-Dioxane	ND		0.80		ppb v/v			01/18/17 22:38	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/18/17 22:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/18/17 22:38	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/18/17 22:38	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/18/17 22:38	1
Vinyl acetate	ND		0.80		ppb v/v			01/18/17 22:38	1
Vinyl chloride	ND		0.40		ppb v/v			01/18/17 22:38	1
m,p-Xylene	4.0		0.80		ppb v/v			01/18/17 22:38	1
o-Xylene	1.1		0.40		ppb v/v			01/18/17 22:38	1
Naphthalene	ND		0.80		ppb v/v			01/18/17 22:38	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	40		12		ug/m3			01/18/17 22:38	1
Benzene	1.6		1.3		ug/m3			01/18/17 22:38	1
Benzyl chloride	ND		4.1		ug/m3			01/18/17 22:38	1
Bromodichloromethane	ND		2.0		ug/m3			01/18/17 22:38	1
Bromoform	ND		4.1		ug/m3			01/18/17 22:38	1
Bromomethane	ND		3.1		ug/m3			01/18/17 22:38	1
2-Butanone (MEK)	3.2		2.4		ug/m3			01/18/17 22:38	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-12

Date Collected: 01/16/17 11:12

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		2.5		ug/m ³			01/18/17 22:38	1
Carbon tetrachloride	ND		5.0		ug/m ³			01/18/17 22:38	1
Chlorobenzene	ND		1.4		ug/m ³			01/18/17 22:38	1
Dibromochloromethane	ND		3.4		ug/m ³			01/18/17 22:38	1
Chloroethane	ND		2.1		ug/m ³			01/18/17 22:38	1
Chloroform	ND		1.5		ug/m ³			01/18/17 22:38	1
Chloromethane	ND		1.7		ug/m ³			01/18/17 22:38	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m ³			01/18/17 22:38	1
1,2-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 22:38	1
1,3-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 22:38	1
1,4-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 22:38	1
Dichlorodifluoromethane	2.4		2.0		ug/m ³			01/18/17 22:38	1
1,1-Dichloroethane	ND		1.2		ug/m ³			01/18/17 22:38	1
1,2-Dichloroethane	ND		3.2		ug/m ³			01/18/17 22:38	1
1,1-Dichloroethene	ND		3.2		ug/m ³			01/18/17 22:38	1
cis-1,2-Dichloroethene	ND		1.6		ug/m ³			01/18/17 22:38	1
trans-1,2-Dichloroethene	ND		1.6		ug/m ³			01/18/17 22:38	1
1,2-Dichloropropane	ND		1.8		ug/m ³			01/18/17 22:38	1
cis-1,3-Dichloropropene	ND		1.8		ug/m ³			01/18/17 22:38	1
trans-1,3-Dichloropropene	ND		1.8		ug/m ³			01/18/17 22:38	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m ³			01/18/17 22:38	1
Ethylbenzene	4.8		1.7		ug/m ³			01/18/17 22:38	1
4-Ethyltoluene	ND		2.0		ug/m ³			01/18/17 22:38	1
Hexachlorobutadiene	ND		21		ug/m ³			01/18/17 22:38	1
2-Hexanone	ND		1.6		ug/m ³			01/18/17 22:38	1
Methylene Chloride	ND		1.4		ug/m ³			01/18/17 22:38	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m ³			01/18/17 22:38	1
Styrene	ND		1.7		ug/m ³			01/18/17 22:38	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m ³			01/18/17 22:38	1
Tetrachloroethene	ND		2.7		ug/m ³			01/18/17 22:38	1
Toluene	6.9		1.5		ug/m ³			01/18/17 22:38	1
1,2,4-Trichlorobenzene	ND		15		ug/m ³			01/18/17 22:38	1
1,1,1-Trichloroethane	ND		1.6		ug/m ³			01/18/17 22:38	1
1,1,2-Trichloroethane	ND		2.2		ug/m ³			01/18/17 22:38	1
Trichloroethene	ND		2.1		ug/m ³			01/18/17 22:38	1
1,4-Dioxane	ND		2.9		ug/m ³			01/18/17 22:38	1
Trichlorofluoromethane	ND		2.2		ug/m ³			01/18/17 22:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m ³			01/18/17 22:38	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m ³			01/18/17 22:38	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m ³			01/18/17 22:38	1
Vinyl acetate	ND		2.8		ug/m ³			01/18/17 22:38	1
Vinyl chloride	ND		1.0		ug/m ³			01/18/17 22:38	1
m,p-Xylene	17		3.5		ug/m ³			01/18/17 22:38	1
o-Xylene	4.9		1.7		ug/m ³			01/18/17 22:38	1
Naphthalene	ND		4.2		ug/m ³			01/18/17 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130					01/18/17 22:38	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130					01/18/17 22:38	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-12

Date Collected: 01/16/17 11:12

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		01/18/17 22:38	1

Client Sample ID: SVE-15

Date Collected: 01/16/17 11:13

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23		5.0		ppb v/v			01/18/17 23:33	1
Benzene	0.69		0.40		ppb v/v			01/18/17 23:33	1
Benzyl chloride	ND		0.80		ppb v/v			01/18/17 23:33	1
Bromodichloromethane	ND		0.30		ppb v/v			01/18/17 23:33	1
Bromoform	ND		0.40		ppb v/v			01/18/17 23:33	1
Bromomethane	ND		0.80		ppb v/v			01/18/17 23:33	1
2-Butanone (MEK)	17		0.80		ppb v/v			01/18/17 23:33	1
Carbon disulfide	ND		0.80		ppb v/v			01/18/17 23:33	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/18/17 23:33	1
Chlorobenzene	ND		0.30		ppb v/v			01/18/17 23:33	1
Dibromochloromethane	ND		0.40		ppb v/v			01/18/17 23:33	1
Chloroethane	ND		0.80		ppb v/v			01/18/17 23:33	1
Chloroform	ND		0.30		ppb v/v			01/18/17 23:33	1
Chloromethane	ND		0.80		ppb v/v			01/18/17 23:33	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/18/17 23:33	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 23:33	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 23:33	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 23:33	1
Dichlorodifluoromethane	0.49		0.40		ppb v/v			01/18/17 23:33	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/18/17 23:33	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/18/17 23:33	1
1,1-Dichloroethene	ND		0.80		ppb v/v			01/18/17 23:33	1
cis-1,2-Dichloroethene	0.90		0.40		ppb v/v			01/18/17 23:33	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 23:33	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/18/17 23:33	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 23:33	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 23:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/18/17 23:33	1
Ethylbenzene	1.4		0.40		ppb v/v			01/18/17 23:33	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/18/17 23:33	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/18/17 23:33	1
2-Hexanone	ND		0.40		ppb v/v			01/18/17 23:33	1
Methylene Chloride	ND		0.40		ppb v/v			01/18/17 23:33	1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/18/17 23:33	1
Styrene	ND		0.40		ppb v/v			01/18/17 23:33	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/18/17 23:33	1
Tetrachloroethene	ND		0.40		ppb v/v			01/18/17 23:33	1
Toluene	2.4		0.40		ppb v/v			01/18/17 23:33	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/18/17 23:33	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-15

Date Collected: 01/16/17 11:13

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/18/17 23:33	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/18/17 23:33	1
Trichloroethene	ND		0.40		ppb v/v			01/18/17 23:33	1
1,4-Dioxane	ND		0.80		ppb v/v			01/18/17 23:33	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/18/17 23:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/18/17 23:33	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/18/17 23:33	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/18/17 23:33	1
Vinyl acetate	ND		0.80		ppb v/v			01/18/17 23:33	1
Vinyl chloride	3.0		0.40		ppb v/v			01/18/17 23:33	1
m,p-Xylene	5.9		0.80		ppb v/v			01/18/17 23:33	1
o-Xylene	1.8		0.40		ppb v/v			01/18/17 23:33	1
Naphthalene	ND		0.80		ppb v/v			01/18/17 23:33	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	54		12		ug/m ³			01/18/17 23:33	1
Benzene	2.2		1.3		ug/m ³			01/18/17 23:33	1
Benzyl chloride	ND		4.1		ug/m ³			01/18/17 23:33	1
Bromodichloromethane	ND		2.0		ug/m ³			01/18/17 23:33	1
Bromoform	ND		4.1		ug/m ³			01/18/17 23:33	1
Bromomethane	ND		3.1		ug/m ³			01/18/17 23:33	1
2-Butanone (MEK)	50		2.4		ug/m ³			01/18/17 23:33	1
Carbon disulfide	ND		2.5		ug/m ³			01/18/17 23:33	1
Carbon tetrachloride	ND		5.0		ug/m ³			01/18/17 23:33	1
Chlorobenzene	ND		1.4		ug/m ³			01/18/17 23:33	1
Dibromochloromethane	ND		3.4		ug/m ³			01/18/17 23:33	1
Chloroethane	ND		2.1		ug/m ³			01/18/17 23:33	1
Chloroform	ND		1.5		ug/m ³			01/18/17 23:33	1
Chloromethane	ND		1.7		ug/m ³			01/18/17 23:33	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m ³			01/18/17 23:33	1
1,2-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 23:33	1
1,3-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 23:33	1
1,4-Dichlorobenzene	ND		2.4		ug/m ³			01/18/17 23:33	1
Dichlorodifluoromethane	2.4		2.0		ug/m ³			01/18/17 23:33	1
1,1-Dichloroethane	ND		1.2		ug/m ³			01/18/17 23:33	1
1,2-Dichloroethane	ND		3.2		ug/m ³			01/18/17 23:33	1
1,1-Dichloroethene	ND		3.2		ug/m ³			01/18/17 23:33	1
cis-1,2-Dichloroethene	3.6		1.6		ug/m ³			01/18/17 23:33	1
trans-1,2-Dichloroethene	ND		1.6		ug/m ³			01/18/17 23:33	1
1,2-Dichloropropane	ND		1.8		ug/m ³			01/18/17 23:33	1
cis-1,3-Dichloropropene	ND		1.8		ug/m ³			01/18/17 23:33	1
trans-1,3-Dichloropropene	ND		1.8		ug/m ³			01/18/17 23:33	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m ³			01/18/17 23:33	1
Ethylbenzene	6.2		1.7		ug/m ³			01/18/17 23:33	1
4-Ethyltoluene	ND		2.0		ug/m ³			01/18/17 23:33	1
Hexachlorobutadiene	ND		21		ug/m ³			01/18/17 23:33	1
2-Hexanone	ND		1.6		ug/m ³			01/18/17 23:33	1
Methylene Chloride	ND		1.4		ug/m ³			01/18/17 23:33	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m ³			01/18/17 23:33	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-15

Date Collected: 01/16/17 11:13

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.7		ug/m3			01/18/17 23:33	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			01/18/17 23:33	1
Tetrachloroethene	ND		2.7		ug/m3			01/18/17 23:33	1
Toluene	8.9		1.5		ug/m3			01/18/17 23:33	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			01/18/17 23:33	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			01/18/17 23:33	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			01/18/17 23:33	1
Trichloroethene	ND		2.1		ug/m3			01/18/17 23:33	1
1,4-Dioxane	ND		2.9		ug/m3			01/18/17 23:33	1
Trichlorofluoromethane	ND		2.2		ug/m3			01/18/17 23:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			01/18/17 23:33	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			01/18/17 23:33	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			01/18/17 23:33	1
Vinyl acetate	ND		2.8		ug/m3			01/18/17 23:33	1
Vinyl chloride	7.6		1.0		ug/m3			01/18/17 23:33	1
m,p-Xylene	25		3.5		ug/m3			01/18/17 23:33	1
o-Xylene	7.8		1.7		ug/m3			01/18/17 23:33	1
Naphthalene	ND		4.2		ug/m3			01/18/17 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130					01/18/17 23:33	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130					01/18/17 23:33	1
Toluene-d8 (Surr)	103		70 - 130					01/18/17 23:33	1

Client Sample ID: SVE-16

Date Collected: 01/16/17 11:32

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		1600		ppb v/v			01/19/17 00:23	317
Benzene	ND		130		ppb v/v			01/19/17 00:23	317
Benzyl chloride	ND		250		ppb v/v			01/19/17 00:23	317
Bromodichloromethane	ND		95		ppb v/v			01/19/17 00:23	317
Bromoform	ND		130		ppb v/v			01/19/17 00:23	317
Bromomethane	ND		250		ppb v/v			01/19/17 00:23	317
2-Butanone (MEK)	ND		250		ppb v/v			01/19/17 00:23	317
Carbon disulfide	ND		250		ppb v/v			01/19/17 00:23	317
Carbon tetrachloride	ND		250		ppb v/v			01/19/17 00:23	317
Chlorobenzene	ND		95		ppb v/v			01/19/17 00:23	317
Dibromochloromethane	ND		130		ppb v/v			01/19/17 00:23	317
Chloroethane	ND		250		ppb v/v			01/19/17 00:23	317
Chloroform	ND		95		ppb v/v			01/19/17 00:23	317
Chloromethane	ND		250		ppb v/v			01/19/17 00:23	317
1,2-Dibromoethane (EDB)	ND		250		ppb v/v			01/19/17 00:23	317
1,2-Dichlorobenzene	ND		130		ppb v/v			01/19/17 00:23	317
1,3-Dichlorobenzene	ND		130		ppb v/v			01/19/17 00:23	317
1,4-Dichlorobenzene	ND		130		ppb v/v			01/19/17 00:23	317

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-16

Date Collected: 01/16/17 11:32

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		130		ppb v/v			01/19/17 00:23	317
1,1-Dichloroethane	ND		95		ppb v/v			01/19/17 00:23	317
1,2-Dichloroethane	ND		250		ppb v/v			01/19/17 00:23	317
1,1-Dichloroethene	ND		250		ppb v/v			01/19/17 00:23	317
cis-1,2-Dichloroethene	8400		130		ppb v/v			01/19/17 00:23	317
trans-1,2-Dichloroethene	1600		130		ppb v/v			01/19/17 00:23	317
1,2-Dichloropropane	ND		130		ppb v/v			01/19/17 00:23	317
cis-1,3-Dichloropropene	ND		130		ppb v/v			01/19/17 00:23	317
trans-1,3-Dichloropropene	ND		130		ppb v/v			01/19/17 00:23	317
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		130		ppb v/v			01/19/17 00:23	317
Ethylbenzene	ND		130		ppb v/v			01/19/17 00:23	317
4-Ethyltoluene	ND		130		ppb v/v			01/19/17 00:23	317
Hexachlorobutadiene	ND		630		ppb v/v			01/19/17 00:23	317
2-Hexanone	ND		130		ppb v/v			01/19/17 00:23	317
Methylene Chloride	ND		130		ppb v/v			01/19/17 00:23	317
4-Methyl-2-pentanone (MIBK)	ND		130		ppb v/v			01/19/17 00:23	317
Styrene	ND		130		ppb v/v			01/19/17 00:23	317
1,1,2,2-Tetrachloroethane	ND		130		ppb v/v			01/19/17 00:23	317
Tetrachloroethene	ND		130		ppb v/v			01/19/17 00:23	317
Toluene	ND		130		ppb v/v			01/19/17 00:23	317
1,2,4-Trichlorobenzene	ND		630		ppb v/v			01/19/17 00:23	317
1,1,1-Trichloroethane	ND		95		ppb v/v			01/19/17 00:23	317
1,1,2-Trichloroethane	ND		130		ppb v/v			01/19/17 00:23	317
Trichloroethene	ND		130		ppb v/v			01/19/17 00:23	317
1,4-Dioxane	ND		250		ppb v/v			01/19/17 00:23	317
Trichlorofluoromethane	ND		130		ppb v/v			01/19/17 00:23	317
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		130		ppb v/v			01/19/17 00:23	317
1,2,4-Trimethylbenzene	ND		250		ppb v/v			01/19/17 00:23	317
1,3,5-Trimethylbenzene	ND		130		ppb v/v			01/19/17 00:23	317
Vinyl acetate	ND		250		ppb v/v			01/19/17 00:23	317
Vinyl chloride	1200		130		ppb v/v			01/19/17 00:23	317
m,p-Xylene	ND		250		ppb v/v			01/19/17 00:23	317
o-Xylene	ND		130		ppb v/v			01/19/17 00:23	317
Naphthalene	ND		250		ppb v/v			01/19/17 00:23	317
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		3800		ug/m3			01/19/17 00:23	317
Benzene	ND		410		ug/m3			01/19/17 00:23	317
Benzyl chloride	ND		1300		ug/m3			01/19/17 00:23	317
Bromodichloromethane	ND		640		ug/m3			01/19/17 00:23	317
Bromoform	ND		1300		ug/m3			01/19/17 00:23	317
Bromomethane	ND		980		ug/m3			01/19/17 00:23	317
2-Butanone (MEK)	ND		750		ug/m3			01/19/17 00:23	317
Carbon disulfide	ND		790		ug/m3			01/19/17 00:23	317
Carbon tetrachloride	ND		1600		ug/m3			01/19/17 00:23	317
Chlorobenzene	ND		440		ug/m3			01/19/17 00:23	317
Dibromochloromethane	ND		1100		ug/m3			01/19/17 00:23	317
Chloroethane	ND		670		ug/m3			01/19/17 00:23	317
Chloroform	ND		460		ug/m3			01/19/17 00:23	317

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-16

Date Collected: 01/16/17 11:32

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		520		ug/m ³			01/19/17 00:23	317
1,2-Dibromoethane (EDB)	ND		1900		ug/m ³			01/19/17 00:23	317
1,2-Dichlorobenzene	ND		760		ug/m ³			01/19/17 00:23	317
1,3-Dichlorobenzene	ND		760		ug/m ³			01/19/17 00:23	317
1,4-Dichlorobenzene	ND		760		ug/m ³			01/19/17 00:23	317
Dichlorodifluoromethane	ND		630		ug/m ³			01/19/17 00:23	317
1,1-Dichloroethane	ND		380		ug/m ³			01/19/17 00:23	317
1,2-Dichloroethane	ND		1000		ug/m ³			01/19/17 00:23	317
1,1-Dichloroethene	ND		1000		ug/m ³			01/19/17 00:23	317
cis-1,2-Dichloroethene	33000		500		ug/m ³			01/19/17 00:23	317
trans-1,2-Dichloroethene	6200		500		ug/m ³			01/19/17 00:23	317
1,2-Dichloropropane	ND		590		ug/m ³			01/19/17 00:23	317
cis-1,3-Dichloropropene	ND		580		ug/m ³			01/19/17 00:23	317
trans-1,3-Dichloropropene	ND		580		ug/m ³			01/19/17 00:23	317
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		890		ug/m ³			01/19/17 00:23	317
Ethylbenzene	ND		550		ug/m ³			01/19/17 00:23	317
4-Ethyltoluene	ND		620		ug/m ³			01/19/17 00:23	317
Hexachlorobutadiene	ND		6800		ug/m ³			01/19/17 00:23	317
2-Hexanone	ND		520		ug/m ³			01/19/17 00:23	317
Methylene Chloride	ND		440		ug/m ³			01/19/17 00:23	317
4-Methyl-2-pentanone (MIBK)	ND		520		ug/m ³			01/19/17 00:23	317
Styrene	ND		540		ug/m ³			01/19/17 00:23	317
1,1,2,2-Tetrachloroethane	ND		870		ug/m ³			01/19/17 00:23	317
Tetrachloroethene	ND		860		ug/m ³			01/19/17 00:23	317
Toluene	ND		480		ug/m ³			01/19/17 00:23	317
1,2,4-Trichlorobenzene	ND		4700		ug/m ³			01/19/17 00:23	317
1,1,1-Trichloroethane	ND		520		ug/m ³			01/19/17 00:23	317
1,1,2-Trichloroethane	ND		690		ug/m ³			01/19/17 00:23	317
Trichloroethene	ND		680		ug/m ³			01/19/17 00:23	317
1,4-Dioxane	ND		910		ug/m ³			01/19/17 00:23	317
Trichlorofluoromethane	ND		710		ug/m ³			01/19/17 00:23	317
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		970		ug/m ³			01/19/17 00:23	317
1,2,4-Trimethylbenzene	ND		1200		ug/m ³			01/19/17 00:23	317
1,3,5-Trimethylbenzene	ND		620		ug/m ³			01/19/17 00:23	317
Vinyl acetate	ND		890		ug/m ³			01/19/17 00:23	317
Vinyl chloride	3000		320		ug/m ³			01/19/17 00:23	317
m,p-Xylene	ND		1100		ug/m ³			01/19/17 00:23	317
o-Xylene	ND		550		ug/m ³			01/19/17 00:23	317
Naphthalene	ND		1300		ug/m ³			01/19/17 00:23	317
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80			70 - 130				01/19/17 00:23	317
1,2-Dichloroethane-d4 (Surr)	101			70 - 130				01/19/17 00:23	317
Toluene-d8 (Surr)	102			70 - 130				01/19/17 00:23	317

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-17

Date Collected: 01/16/17 11:33

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	19		5.0		ppb v/v		01/19/17 01:18		1
Benzene	0.46		0.40		ppb v/v		01/19/17 01:18		1
Benzyl chloride	ND		0.80		ppb v/v		01/19/17 01:18		1
Bromodichloromethane	ND		0.30		ppb v/v		01/19/17 01:18		1
Bromoform	ND		0.40		ppb v/v		01/19/17 01:18		1
Bromomethane	ND		0.80		ppb v/v		01/19/17 01:18		1
2-Butanone (MEK)	1.2		0.80		ppb v/v		01/19/17 01:18		1
Carbon disulfide	ND		0.80		ppb v/v		01/19/17 01:18		1
Carbon tetrachloride	ND		0.80		ppb v/v		01/19/17 01:18		1
Chlorobenzene	ND		0.30		ppb v/v		01/19/17 01:18		1
Dibromochloromethane	ND		0.40		ppb v/v		01/19/17 01:18		1
Chloroethane	ND		0.80		ppb v/v		01/19/17 01:18		1
Chloroform	ND		0.30		ppb v/v		01/19/17 01:18		1
Chloromethane	ND		0.80		ppb v/v		01/19/17 01:18		1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v		01/19/17 01:18		1
1,2-Dichlorobenzene	ND		0.40		ppb v/v		01/19/17 01:18		1
1,3-Dichlorobenzene	ND		0.40		ppb v/v		01/19/17 01:18		1
1,4-Dichlorobenzene	ND		0.40		ppb v/v		01/19/17 01:18		1
Dichlorodifluoromethane	0.51		0.40		ppb v/v		01/19/17 01:18		1
1,1-Dichloroethane	ND		0.30		ppb v/v		01/19/17 01:18		1
1,2-Dichloroethane	ND		0.80		ppb v/v		01/19/17 01:18		1
1,1-Dichloroethene	ND		0.80		ppb v/v		01/19/17 01:18		1
cis-1,2-Dichloroethene	2.2		0.40		ppb v/v		01/19/17 01:18		1
trans-1,2-Dichloroethene	0.52		0.40		ppb v/v		01/19/17 01:18		1
1,2-Dichloropropane	ND		0.40		ppb v/v		01/19/17 01:18		1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v		01/19/17 01:18		1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v		01/19/17 01:18		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v		01/19/17 01:18		1
Ethylbenzene	1.6		0.40		ppb v/v		01/19/17 01:18		1
4-Ethyltoluene	ND		0.40		ppb v/v		01/19/17 01:18		1
Hexachlorobutadiene	ND		2.0		ppb v/v		01/19/17 01:18		1
2-Hexanone	ND		0.40		ppb v/v		01/19/17 01:18		1
Methylene Chloride	ND		0.40		ppb v/v		01/19/17 01:18		1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v		01/19/17 01:18		1
Styrene	ND		0.40		ppb v/v		01/19/17 01:18		1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v		01/19/17 01:18		1
Tetrachloroethene	ND		0.40		ppb v/v		01/19/17 01:18		1
Toluene	2.7		0.40		ppb v/v		01/19/17 01:18		1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v		01/19/17 01:18		1
1,1,1-Trichloroethane	ND		0.30		ppb v/v		01/19/17 01:18		1
1,1,2-Trichloroethane	ND		0.40		ppb v/v		01/19/17 01:18		1
Trichloroethene	ND		0.40		ppb v/v		01/19/17 01:18		1
1,4-Dioxane	ND		0.80		ppb v/v		01/19/17 01:18		1
Trichlorofluoromethane	ND		0.40		ppb v/v		01/19/17 01:18		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v		01/19/17 01:18		1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v		01/19/17 01:18		1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v		01/19/17 01:18		1
Vinyl acetate	ND		0.80		ppb v/v		01/19/17 01:18		1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-17

Date Collected: 01/16/17 11:33

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	3.6		0.40		ppb v/v			01/19/17 01:18	1
m,p-Xylene	4.8		0.80		ppb v/v			01/19/17 01:18	1
o-Xylene	1.2		0.40		ppb v/v			01/19/17 01:18	1
Naphthalene	ND		0.80		ppb v/v			01/19/17 01:18	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	45		12		ug/m ³			01/19/17 01:18	1
Benzene	1.5		1.3		ug/m ³			01/19/17 01:18	1
Benzyl chloride	ND		4.1		ug/m ³			01/19/17 01:18	1
Bromodichloromethane	ND		2.0		ug/m ³			01/19/17 01:18	1
Bromoform	ND		4.1		ug/m ³			01/19/17 01:18	1
Bromomethane	ND		3.1		ug/m ³			01/19/17 01:18	1
2-Butanone (MEK)	3.4		2.4		ug/m ³			01/19/17 01:18	1
Carbon disulfide	ND		2.5		ug/m ³			01/19/17 01:18	1
Carbon tetrachloride	ND		5.0		ug/m ³			01/19/17 01:18	1
Chlorobenzene	ND		1.4		ug/m ³			01/19/17 01:18	1
Dibromochloromethane	ND		3.4		ug/m ³			01/19/17 01:18	1
Chloroethane	ND		2.1		ug/m ³			01/19/17 01:18	1
Chloroform	ND		1.5		ug/m ³			01/19/17 01:18	1
Chloromethane	ND		1.7		ug/m ³			01/19/17 01:18	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m ³			01/19/17 01:18	1
1,2-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 01:18	1
1,3-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 01:18	1
1,4-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 01:18	1
Dichlorodifluoromethane	2.5		2.0		ug/m ³			01/19/17 01:18	1
1,1-Dichloroethane	ND		1.2		ug/m ³			01/19/17 01:18	1
1,2-Dichloroethane	ND		3.2		ug/m ³			01/19/17 01:18	1
1,1-Dichloroethene	ND		3.2		ug/m ³			01/19/17 01:18	1
cis-1,2-Dichloroethene	8.8		1.6		ug/m ³			01/19/17 01:18	1
trans-1,2-Dichloroethene	2.1		1.6		ug/m ³			01/19/17 01:18	1
1,2-Dichloropropane	ND		1.8		ug/m ³			01/19/17 01:18	1
cis-1,3-Dichloropropene	ND		1.8		ug/m ³			01/19/17 01:18	1
trans-1,3-Dichloropropene	ND		1.8		ug/m ³			01/19/17 01:18	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m ³			01/19/17 01:18	1
Ethylbenzene	7.0		1.7		ug/m ³			01/19/17 01:18	1
4-Ethyltoluene	ND		2.0		ug/m ³			01/19/17 01:18	1
Hexachlorobutadiene	ND		21		ug/m ³			01/19/17 01:18	1
2-Hexanone	ND		1.6		ug/m ³			01/19/17 01:18	1
Methylene Chloride	ND		1.4		ug/m ³			01/19/17 01:18	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m ³			01/19/17 01:18	1
Styrene	ND		1.7		ug/m ³			01/19/17 01:18	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m ³			01/19/17 01:18	1
Tetrachloroethene	ND		2.7		ug/m ³			01/19/17 01:18	1
Toluene	10		1.5		ug/m ³			01/19/17 01:18	1
1,2,4-Trichlorobenzene	ND		15		ug/m ³			01/19/17 01:18	1
1,1,1-Trichloroethane	ND		1.6		ug/m ³			01/19/17 01:18	1
1,1,2-Trichloroethane	ND		2.2		ug/m ³			01/19/17 01:18	1
Trichloroethene	ND		2.1		ug/m ³			01/19/17 01:18	1
1,4-Dioxane	ND		2.9		ug/m ³			01/19/17 01:18	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-17

Date Collected: 01/16/17 11:33

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		2.2		ug/m3			01/19/17 01:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			01/19/17 01:18	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			01/19/17 01:18	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			01/19/17 01:18	1
Vinyl acetate	ND		2.8		ug/m3			01/19/17 01:18	1
Vinyl chloride	9.3		1.0		ug/m3			01/19/17 01:18	1
m,p-Xylene	21		3.5		ug/m3			01/19/17 01:18	1
o-Xylene	5.4		1.7		ug/m3			01/19/17 01:18	1
Naphthalene	ND		4.2		ug/m3			01/19/17 01:18	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		103		70 - 130				01/19/17 01:18	1
1,2-Dichloroethane-d4 (Surr)		100		70 - 130				01/19/17 01:18	1
Toluene-d8 (Surr)		101		70 - 130				01/19/17 01:18	1

Client Sample ID: SVE-18

Date Collected: 01/16/17 11:44

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-9

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	15		5.0		ppb v/v			01/19/17 02:14	1
Benzene	0.46		0.40		ppb v/v			01/19/17 02:14	1
Benzyl chloride	ND		0.80		ppb v/v			01/19/17 02:14	1
Bromodichloromethane	ND		0.30		ppb v/v			01/19/17 02:14	1
Bromoform	ND		0.40		ppb v/v			01/19/17 02:14	1
Bromomethane	ND		0.80		ppb v/v			01/19/17 02:14	1
2-Butanone (MEK)	5.3		0.80		ppb v/v			01/19/17 02:14	1
Carbon disulfide	ND		0.80		ppb v/v			01/19/17 02:14	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/19/17 02:14	1
Chlorobenzene	ND		0.30		ppb v/v			01/19/17 02:14	1
Dibromochloromethane	ND		0.40		ppb v/v			01/19/17 02:14	1
Chloroethane	ND		0.80		ppb v/v			01/19/17 02:14	1
Chloroform	ND		0.30		ppb v/v			01/19/17 02:14	1
Chloromethane	ND		0.80		ppb v/v			01/19/17 02:14	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/19/17 02:14	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 02:14	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 02:14	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 02:14	1
Dichlorodifluoromethane	0.50		0.40		ppb v/v			01/19/17 02:14	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/19/17 02:14	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/19/17 02:14	1
1,1-Dichloroethene	ND		0.80		ppb v/v			01/19/17 02:14	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			01/19/17 02:14	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			01/19/17 02:14	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/19/17 02:14	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/19/17 02:14	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/19/17 02:14	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-18

Date Collected: 01/16/17 11:44

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-9

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/19/17 02:14	1
Ethylbenzene	1.0		0.40		ppb v/v			01/19/17 02:14	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/19/17 02:14	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/19/17 02:14	1
2-Hexanone	ND		0.40		ppb v/v			01/19/17 02:14	1
Methylene Chloride	ND		0.40		ppb v/v			01/19/17 02:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/19/17 02:14	1
Styrene	ND		0.40		ppb v/v			01/19/17 02:14	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/19/17 02:14	1
Tetrachloroethene	ND		0.40		ppb v/v			01/19/17 02:14	1
Toluene	1.6		0.40		ppb v/v			01/19/17 02:14	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/19/17 02:14	1
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/19/17 02:14	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/19/17 02:14	1
Trichloroethene	ND		0.40		ppb v/v			01/19/17 02:14	1
1,4-Dioxane	ND		0.80		ppb v/v			01/19/17 02:14	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/19/17 02:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/19/17 02:14	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/19/17 02:14	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/19/17 02:14	1
Vinyl acetate	ND		0.80		ppb v/v			01/19/17 02:14	1
Vinyl chloride	ND		0.40		ppb v/v			01/19/17 02:14	1
m,p-Xylene	3.7		0.80		ppb v/v			01/19/17 02:14	1
o-Xylene	1.1		0.40		ppb v/v			01/19/17 02:14	1
Naphthalene	ND		0.80		ppb v/v			01/19/17 02:14	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	35		12		ug/m3			01/19/17 02:14	1
Benzene	1.5		1.3		ug/m3			01/19/17 02:14	1
Benzyl chloride	ND		4.1		ug/m3			01/19/17 02:14	1
Bromodichloromethane	ND		2.0		ug/m3			01/19/17 02:14	1
Bromoform	ND		4.1		ug/m3			01/19/17 02:14	1
Bromomethane	ND		3.1		ug/m3			01/19/17 02:14	1
2-Butanone (MEK)	16		2.4		ug/m3			01/19/17 02:14	1
Carbon disulfide	ND		2.5		ug/m3			01/19/17 02:14	1
Carbon tetrachloride	ND		5.0		ug/m3			01/19/17 02:14	1
Chlorobenzene	ND		1.4		ug/m3			01/19/17 02:14	1
Dibromochloromethane	ND		3.4		ug/m3			01/19/17 02:14	1
Chloroethane	ND		2.1		ug/m3			01/19/17 02:14	1
Chloroform	ND		1.5		ug/m3			01/19/17 02:14	1
Chloromethane	ND		1.7		ug/m3			01/19/17 02:14	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m3			01/19/17 02:14	1
1,2-Dichlorobenzene	ND		2.4		ug/m3			01/19/17 02:14	1
1,3-Dichlorobenzene	ND		2.4		ug/m3			01/19/17 02:14	1
1,4-Dichlorobenzene	ND		2.4		ug/m3			01/19/17 02:14	1
Dichlorodifluoromethane	2.5		2.0		ug/m3			01/19/17 02:14	1
1,1-Dichloroethane	ND		1.2		ug/m3			01/19/17 02:14	1
1,2-Dichloroethane	ND		3.2		ug/m3			01/19/17 02:14	1
1,1-Dichloroethene	ND		3.2		ug/m3			01/19/17 02:14	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-18

Date Collected: 01/16/17 11:44

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-9

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			01/19/17 02:14	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			01/19/17 02:14	1
1,2-Dichloropropane	ND		1.8		ug/m3			01/19/17 02:14	1
cis-1,3-Dichloropropene	ND		1.8		ug/m3			01/19/17 02:14	1
trans-1,3-Dichloropropene	ND		1.8		ug/m3			01/19/17 02:14	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m3			01/19/17 02:14	1
Ethylbenzene	4.4		1.7		ug/m3			01/19/17 02:14	1
4-Ethyltoluene	ND		2.0		ug/m3			01/19/17 02:14	1
Hexachlorobutadiene	ND		21		ug/m3			01/19/17 02:14	1
2-Hexanone	ND		1.6		ug/m3			01/19/17 02:14	1
Methylene Chloride	ND		1.4		ug/m3			01/19/17 02:14	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m3			01/19/17 02:14	1
Styrene	ND		1.7		ug/m3			01/19/17 02:14	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m3			01/19/17 02:14	1
Tetrachloroethene	ND		2.7		ug/m3			01/19/17 02:14	1
Toluene	6.2		1.5		ug/m3			01/19/17 02:14	1
1,2,4-Trichlorobenzene	ND		15		ug/m3			01/19/17 02:14	1
1,1,1-Trichloroethane	ND		1.6		ug/m3			01/19/17 02:14	1
1,1,2-Trichloroethane	ND		2.2		ug/m3			01/19/17 02:14	1
Trichloroethene	ND		2.1		ug/m3			01/19/17 02:14	1
1,4-Dioxane	ND		2.9		ug/m3			01/19/17 02:14	1
Trichlorofluoromethane	ND		2.2		ug/m3			01/19/17 02:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			01/19/17 02:14	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			01/19/17 02:14	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			01/19/17 02:14	1
Vinyl acetate	ND		2.8		ug/m3			01/19/17 02:14	1
Vinyl chloride	ND		1.0		ug/m3			01/19/17 02:14	1
m,p-Xylene	16		3.5		ug/m3			01/19/17 02:14	1
o-Xylene	4.6		1.7		ug/m3			01/19/17 02:14	1
Naphthalene	ND		4.2		ug/m3			01/19/17 02:14	1
Surrogate	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101			70 - 130				01/19/17 02:14	1
1,2-Dichloroethane-d4 (Surr)	99			70 - 130				01/19/17 02:14	1
Toluene-d8 (Surr)	101			70 - 130				01/19/17 02:14	1

Client Sample ID: SVE-Influent

Date Collected: 01/16/17 11:58

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Lab Sample ID: 320-25032-10

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13		5.0		ppb v/v			01/19/17 03:09	1
Benzene	0.61		0.40		ppb v/v			01/19/17 03:09	1
Benzyl chloride	ND		0.80		ppb v/v			01/19/17 03:09	1
Bromodichloromethane	ND		0.30		ppb v/v			01/19/17 03:09	1
Bromoform	ND		0.40		ppb v/v			01/19/17 03:09	1
Bromomethane	ND		0.80		ppb v/v			01/19/17 03:09	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-Influent

Lab Sample ID: 320-25032-10

Matrix: Air

Date Collected: 01/16/17 11:58

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	2.2		0.80		ppb v/v			01/19/17 03:09	1
Carbon disulfide	ND		0.80		ppb v/v			01/19/17 03:09	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/19/17 03:09	1
Chlorobenzene	ND		0.30		ppb v/v			01/19/17 03:09	1
Dibromochloromethane	ND		0.40		ppb v/v			01/19/17 03:09	1
Chloroethane	ND		0.80		ppb v/v			01/19/17 03:09	1
Chloroform	ND		0.30		ppb v/v			01/19/17 03:09	1
Chloromethane	ND		0.80		ppb v/v			01/19/17 03:09	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/19/17 03:09	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 03:09	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 03:09	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/19/17 03:09	1
Dichlorodifluoromethane	0.52		0.40		ppb v/v			01/19/17 03:09	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/19/17 03:09	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/19/17 03:09	1
1,1-Dichloroethene	ND		0.80		ppb v/v			01/19/17 03:09	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			01/19/17 03:09	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			01/19/17 03:09	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/19/17 03:09	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/19/17 03:09	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/19/17 03:09	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/19/17 03:09	1
Ethylbenzene	ND		0.40		ppb v/v			01/19/17 03:09	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/19/17 03:09	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/19/17 03:09	1
2-Hexanone	ND		0.40		ppb v/v			01/19/17 03:09	1
Methylene Chloride	ND		0.40		ppb v/v			01/19/17 03:09	1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/19/17 03:09	1
Styrene	ND		0.40		ppb v/v			01/19/17 03:09	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/19/17 03:09	1
Tetrachloroethene	ND		0.40		ppb v/v			01/19/17 03:09	1
Toluene	0.92		0.40		ppb v/v			01/19/17 03:09	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/19/17 03:09	1
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/19/17 03:09	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/19/17 03:09	1
Trichloroethene	0.42		0.40		ppb v/v			01/19/17 03:09	1
1,4-Dioxane	ND		0.80		ppb v/v			01/19/17 03:09	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/19/17 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/19/17 03:09	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/19/17 03:09	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/19/17 03:09	1
Vinyl acetate	ND		0.80		ppb v/v			01/19/17 03:09	1
Vinyl chloride	ND		0.40		ppb v/v			01/19/17 03:09	1
m,p-Xylene	ND		0.80		ppb v/v			01/19/17 03:09	1
o-Xylene	ND		0.40		ppb v/v			01/19/17 03:09	1
Naphthalene	ND		0.80		ppb v/v			01/19/17 03:09	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	32		12		ug/m3			01/19/17 03:09	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-Influent

Lab Sample ID: 320-25032-10

Matrix: Air

Date Collected: 01/16/17 11:58

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	2.0		1.3		ug/m ³			01/19/17 03:09	1
Benzyl chloride	ND		4.1		ug/m ³			01/19/17 03:09	1
Bromodichloromethane	ND		2.0		ug/m ³			01/19/17 03:09	1
Bromoform	ND		4.1		ug/m ³			01/19/17 03:09	1
Bromomethane	ND		3.1		ug/m ³			01/19/17 03:09	1
2-Butanone (MEK)	6.5		2.4		ug/m ³			01/19/17 03:09	1
Carbon disulfide	ND		2.5		ug/m ³			01/19/17 03:09	1
Carbon tetrachloride	ND		5.0		ug/m ³			01/19/17 03:09	1
Chlorobenzene	ND		1.4		ug/m ³			01/19/17 03:09	1
Dibromochloromethane	ND		3.4		ug/m ³			01/19/17 03:09	1
Chloroethane	ND		2.1		ug/m ³			01/19/17 03:09	1
Chloroform	ND		1.5		ug/m ³			01/19/17 03:09	1
Chloromethane	ND		1.7		ug/m ³			01/19/17 03:09	1
1,2-Dibromoethane (EDB)	ND		6.1		ug/m ³			01/19/17 03:09	1
1,2-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 03:09	1
1,3-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 03:09	1
1,4-Dichlorobenzene	ND		2.4		ug/m ³			01/19/17 03:09	1
Dichlorodifluoromethane	2.6		2.0		ug/m ³			01/19/17 03:09	1
1,1-Dichloroethane	ND		1.2		ug/m ³			01/19/17 03:09	1
1,2-Dichloroethane	ND		3.2		ug/m ³			01/19/17 03:09	1
1,1-Dichloroethene	ND		3.2		ug/m ³			01/19/17 03:09	1
cis-1,2-Dichloroethene	ND		1.6		ug/m ³			01/19/17 03:09	1
trans-1,2-Dichloroethene	ND		1.6		ug/m ³			01/19/17 03:09	1
1,2-Dichloropropane	ND		1.8		ug/m ³			01/19/17 03:09	1
cis-1,3-Dichloropropene	ND		1.8		ug/m ³			01/19/17 03:09	1
trans-1,3-Dichloropropene	ND		1.8		ug/m ³			01/19/17 03:09	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		2.8		ug/m ³			01/19/17 03:09	1
Ethylbenzene	ND		1.7		ug/m ³			01/19/17 03:09	1
4-Ethyltoluene	ND		2.0		ug/m ³			01/19/17 03:09	1
Hexachlorobutadiene	ND		21		ug/m ³			01/19/17 03:09	1
2-Hexanone	ND		1.6		ug/m ³			01/19/17 03:09	1
Methylene Chloride	ND		1.4		ug/m ³			01/19/17 03:09	1
4-Methyl-2-pentanone (MIBK)	ND		1.6		ug/m ³			01/19/17 03:09	1
Styrene	ND		1.7		ug/m ³			01/19/17 03:09	1
1,1,2,2-Tetrachloroethane	ND		2.7		ug/m ³			01/19/17 03:09	1
Tetrachloroethene	ND		2.7		ug/m ³			01/19/17 03:09	1
Toluene	3.5		1.5		ug/m ³			01/19/17 03:09	1
1,2,4-Trichlorobenzene	ND		15		ug/m ³			01/19/17 03:09	1
1,1,1-Trichloroethane	ND		1.6		ug/m ³			01/19/17 03:09	1
1,1,2-Trichloroethane	ND		2.2		ug/m ³			01/19/17 03:09	1
Trichloroethene	2.3		2.1		ug/m ³			01/19/17 03:09	1
1,4-Dioxane	ND		2.9		ug/m ³			01/19/17 03:09	1
Trichlorofluoromethane	ND		2.2		ug/m ³			01/19/17 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m ³			01/19/17 03:09	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m ³			01/19/17 03:09	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m ³			01/19/17 03:09	1
Vinyl acetate	ND		2.8		ug/m ³			01/19/17 03:09	1
Vinyl chloride	ND		1.0		ug/m ³			01/19/17 03:09	1

TestAmerica Sacramento

Client Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-Influent

Lab Sample ID: 320-25032-10

Matrix: Air

Date Collected: 01/16/17 11:58

Date Received: 01/16/17 15:05

Sample Container: Summa Canister 1L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m,p-Xylene	ND		3.5		ug/m3			01/19/17 03:09	1
o-Xylene	ND		1.7		ug/m3			01/19/17 03:09	1
Naphthalene	ND		4.2		ug/m3			01/19/17 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		01/19/17 03:09	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		01/19/17 03:09	1
Toluene-d8 (Surr)	102		70 - 130		01/19/17 03:09	1

Surrogate Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Matrix: Air

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	12DCE (70-130)	TOL (70-130)
320-25032-1	SVE-1	101	101	101
320-25032-2	SVE-4	99	100	103
320-25032-3	SVE-9	100	100	100
320-25032-4	SVE-10	106	104	102
320-25032-5	SVE-12	101	99	102
320-25032-6	SVE-15	100	99	103
320-25032-7	SVE-16	80	101	102
320-25032-8	SVE-17	103	100	101
320-25032-9	SVE-18	101	99	101
320-25032-10	SVE-Influent	96	102	102
LCS 320-146793/3	Lab Control Sample	109	101	99
LCSD 320-146793/4	Lab Control Sample Dup	108	96	100
MB 320-146793/6	Method Blank	85	99	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

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

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 320-146793/6

Matrix: Air

Analysis Batch: 146793

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		5.0		ppb v/v			01/18/17 18:00	1
Benzene	ND		0.40		ppb v/v			01/18/17 18:00	1
Benzyl chloride	ND		0.80		ppb v/v			01/18/17 18:00	1
Bromodichloromethane	ND		0.30		ppb v/v			01/18/17 18:00	1
Bromoform	ND		0.40		ppb v/v			01/18/17 18:00	1
Bromomethane	ND		0.80		ppb v/v			01/18/17 18:00	1
2-Butanone (MEK)	ND		0.80		ppb v/v			01/18/17 18:00	1
Carbon disulfide	ND		0.80		ppb v/v			01/18/17 18:00	1
Carbon tetrachloride	ND		0.80		ppb v/v			01/18/17 18:00	1
Chlorobenzene	ND		0.30		ppb v/v			01/18/17 18:00	1
Dibromochloromethane	ND		0.40		ppb v/v			01/18/17 18:00	1
Chloroethane	ND		0.80		ppb v/v			01/18/17 18:00	1
Chloroform	ND		0.30		ppb v/v			01/18/17 18:00	1
Chloromethane	ND		0.80		ppb v/v			01/18/17 18:00	1
1,2-Dibromoethane (EDB)	ND		0.80		ppb v/v			01/18/17 18:00	1
1,2-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 18:00	1
1,3-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 18:00	1
1,4-Dichlorobenzene	ND		0.40		ppb v/v			01/18/17 18:00	1
Dichlorodifluoromethane	ND		0.40		ppb v/v			01/18/17 18:00	1
1,1-Dichloroethane	ND		0.30		ppb v/v			01/18/17 18:00	1
1,2-Dichloroethane	ND		0.80		ppb v/v			01/18/17 18:00	1
1,1-Dichloroethene	ND		0.80		ppb v/v			01/18/17 18:00	1
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 18:00	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			01/18/17 18:00	1
1,2-Dichloropropane	ND		0.40		ppb v/v			01/18/17 18:00	1
cis-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 18:00	1
trans-1,3-Dichloropropene	ND		0.40		ppb v/v			01/18/17 18:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40		ppb v/v			01/18/17 18:00	1
Ethylbenzene	ND		0.40		ppb v/v			01/18/17 18:00	1
4-Ethyltoluene	ND		0.40		ppb v/v			01/18/17 18:00	1
Hexachlorobutadiene	ND		2.0		ppb v/v			01/18/17 18:00	1
2-Hexanone	ND		0.40		ppb v/v			01/18/17 18:00	1
Methylene Chloride	ND		0.40		ppb v/v			01/18/17 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		0.40		ppb v/v			01/18/17 18:00	1
Styrene	ND		0.40		ppb v/v			01/18/17 18:00	1
1,1,2,2-Tetrachloroethane	ND		0.40		ppb v/v			01/18/17 18:00	1
Tetrachloroethene	ND		0.40		ppb v/v			01/18/17 18:00	1
Toluene	ND		0.40		ppb v/v			01/18/17 18:00	1
1,2,4-Trichlorobenzene	ND		2.0		ppb v/v			01/18/17 18:00	1
1,1,1-Trichloroethane	ND		0.30		ppb v/v			01/18/17 18:00	1
1,1,2-Trichloroethane	ND		0.40		ppb v/v			01/18/17 18:00	1
Trichloroethene	ND		0.40		ppb v/v			01/18/17 18:00	1
1,4-Dioxane	ND		0.80		ppb v/v			01/18/17 18:00	1
Trichlorofluoromethane	ND		0.40		ppb v/v			01/18/17 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40		ppb v/v			01/18/17 18:00	1
1,2,4-Trimethylbenzene	ND		0.80		ppb v/v			01/18/17 18:00	1
1,3,5-Trimethylbenzene	ND		0.40		ppb v/v			01/18/17 18:00	1
Vinyl acetate	ND		0.80		ppb v/v			01/18/17 18:00	1

TestAmerica Sacramento

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 320-146793/6

Matrix: Air

Analysis Batch: 146793

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

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifer									
Vinyl chloride	ND				0.40		ppb v/v			01/18/17 18:00	1
m,p-Xylene	ND				0.80		ppb v/v			01/18/17 18:00	1
o-Xylene	ND				0.40		ppb v/v			01/18/17 18:00	1
Naphthalene	ND				0.80		ppb v/v			01/18/17 18:00	1
Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifer									
Acetone	ND				12		ug/m ³			01/18/17 18:00	1
Benzene	ND				1.3		ug/m ³			01/18/17 18:00	1
Benzyl chloride	ND				4.1		ug/m ³			01/18/17 18:00	1
Bromodichloromethane	ND				2.0		ug/m ³			01/18/17 18:00	1
Bromoform	ND				4.1		ug/m ³			01/18/17 18:00	1
Bromomethane	ND				3.1		ug/m ³			01/18/17 18:00	1
2-Butanone (MEK)	ND				2.4		ug/m ³			01/18/17 18:00	1
Carbon disulfide	ND				2.5		ug/m ³			01/18/17 18:00	1
Carbon tetrachloride	ND				5.0		ug/m ³			01/18/17 18:00	1
Chlorobenzene	ND				1.4		ug/m ³			01/18/17 18:00	1
Dibromochloromethane	ND				3.4		ug/m ³			01/18/17 18:00	1
Chloroethane	ND				2.1		ug/m ³			01/18/17 18:00	1
Chloroform	ND				1.5		ug/m ³			01/18/17 18:00	1
Chloromethane	ND				1.7		ug/m ³			01/18/17 18:00	1
1,2-Dibromoethane (EDB)	ND				6.1		ug/m ³			01/18/17 18:00	1
1,2-Dichlorobenzene	ND				2.4		ug/m ³			01/18/17 18:00	1
1,3-Dichlorobenzene	ND				2.4		ug/m ³			01/18/17 18:00	1
1,4-Dichlorobenzene	ND				2.4		ug/m ³			01/18/17 18:00	1
Dichlorodifluoromethane	ND				2.0		ug/m ³			01/18/17 18:00	1
1,1-Dichloroethane	ND				1.2		ug/m ³			01/18/17 18:00	1
1,2-Dichloroethane	ND				3.2		ug/m ³			01/18/17 18:00	1
1,1-Dichloroethene	ND				3.2		ug/m ³			01/18/17 18:00	1
cis-1,2-Dichloroethene	ND				1.6		ug/m ³			01/18/17 18:00	1
trans-1,2-Dichloroethene	ND				1.6		ug/m ³			01/18/17 18:00	1
1,2-Dichloropropane	ND				1.8		ug/m ³			01/18/17 18:00	1
cis-1,3-Dichloropropene	ND				1.8		ug/m ³			01/18/17 18:00	1
trans-1,3-Dichloropropene	ND				1.8		ug/m ³			01/18/17 18:00	1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND				2.8		ug/m ³			01/18/17 18:00	1
Ethylbenzene	ND				1.7		ug/m ³			01/18/17 18:00	1
4-Ethyltoluene	ND				2.0		ug/m ³			01/18/17 18:00	1
Hexachlorobutadiene	ND				21		ug/m ³			01/18/17 18:00	1
2-Hexanone	ND				1.6		ug/m ³			01/18/17 18:00	1
Methylene Chloride	ND				1.4		ug/m ³			01/18/17 18:00	1
4-Methyl-2-pentanone (MIBK)	ND				1.6		ug/m ³			01/18/17 18:00	1
Styrene	ND				1.7		ug/m ³			01/18/17 18:00	1
1,1,2,2-Tetrachloroethane	ND				2.7		ug/m ³			01/18/17 18:00	1
Tetrachloroethene	ND				2.7		ug/m ³			01/18/17 18:00	1
Toluene	ND				1.5		ug/m ³			01/18/17 18:00	1
1,2,4-Trichlorobenzene	ND				15		ug/m ³			01/18/17 18:00	1
1,1,1-Trichloroethane	ND				1.6		ug/m ³			01/18/17 18:00	1
1,1,2-Trichloroethane	ND				2.2		ug/m ³			01/18/17 18:00	1
Trichloroethene	ND				2.1		ug/m ³			01/18/17 18:00	1

TestAmerica Sacramento

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 320-146793/6

Matrix: Air

Analysis Batch: 146793

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		2.9		ug/m3			01/18/17 18:00	1
Trichlorofluoromethane	ND		2.2		ug/m3			01/18/17 18:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/m3			01/18/17 18:00	1
1,2,4-Trimethylbenzene	ND		3.9		ug/m3			01/18/17 18:00	1
1,3,5-Trimethylbenzene	ND		2.0		ug/m3			01/18/17 18:00	1
Vinyl acetate	ND		2.8		ug/m3			01/18/17 18:00	1
Vinyl chloride	ND		1.0		ug/m3			01/18/17 18:00	1
m,p-Xylene	ND		3.5		ug/m3			01/18/17 18:00	1
o-Xylene	ND		1.7		ug/m3			01/18/17 18:00	1
Naphthalene	ND		4.2		ug/m3			01/18/17 18:00	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	85		70 - 130		01/18/17 18:00	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		01/18/17 18:00	1
Toluene-d8 (Surr)	101		70 - 130		01/18/17 18:00	1

Lab Sample ID: LCS 320-146793/3

Matrix: Air

Analysis Batch: 146793

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

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	Limits
		Result	Qualifier					
Acetone	20.0	18.2		ppb v/v		91	71 - 131	
Benzene	20.0	18.7		ppb v/v		93	68 - 128	
Benzyl chloride	20.0	15.6		ppb v/v		78	58 - 120	
Bromodichloromethane	20.0	18.6		ppb v/v		93	65 - 130	
Bromoform	20.0	18.7		ppb v/v		93	64 - 144	
Bromomethane	20.0	20.8		ppb v/v		104	70 - 131	
2-Butanone (MEK)	20.0	18.3		ppb v/v		92	71 - 131	
Carbon disulfide	20.0	18.1		ppb v/v		91	63 - 123	
Carbon tetrachloride	20.0	18.7		ppb v/v		93	67 - 127	
Chlorobenzene	20.0	19.0		ppb v/v		95	70 - 132	
Dibromochloromethane	20.0	18.9		ppb v/v		95	68 - 128	
Chloroethane	20.0	20.9		ppb v/v		104	70 - 131	
Chloroform	20.0	18.9		ppb v/v		94	69 - 129	
Chloromethane	20.0	21.3		ppb v/v		106	67 - 127	
1,2-Dibromoethane (EDB)	20.0	19.4		ppb v/v		97	68 - 131	
1,2-Dichlorobenzene	20.0	18.4		ppb v/v		92	73 - 143	
1,3-Dichlorobenzene	20.0	19.0		ppb v/v		95	77 - 136	
1,4-Dichlorobenzene	20.0	18.8		ppb v/v		94	73 - 143	
Dichlorodifluoromethane	20.0	19.8		ppb v/v		99	69 - 129	
1,1-Dichloroethane	20.0	19.3		ppb v/v		97	65 - 125	
1,2-Dichloroethane	20.0	19.0		ppb v/v		95	71 - 131	
1,1-Dichloroethene	20.0	17.8		ppb v/v		89	53 - 128	
cis-1,2-Dichloroethene	20.0	18.7		ppb v/v		93	68 - 128	
trans-1,2-Dichloroethene	20.0	19.0		ppb v/v		95	70 - 130	
1,2-Dichloropropane	20.0	19.7		ppb v/v		98	74 - 128	
cis-1,3-Dichloropropene	20.0	20.4		ppb v/v		102	78 - 132	
trans-1,3-Dichloropropene	20.0	17.7		ppb v/v		88	56 - 136	

TestAmerica Sacramento

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 320-146793/3

Matrix: Air

Analysis Batch: 146793

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier				103	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	20.0	20.6		ppb v/v		96	76 - 136	
Ethylbenzene	20.0	19.1		ppb v/v		96	62 - 136	
4-Ethyltoluene	20.0	19.3		ppb v/v		72	42 - 150	
Hexachlorobutadiene	20.0	14.4		ppb v/v		96	70 - 128	
2-Hexanone	20.0	19.2		ppb v/v		92	65 - 125	
Methylene Chloride	20.0	18.4		ppb v/v		95	73 - 133	
4-Methyl-2-pentanone (MIBK)	20.0	19.0		ppb v/v		97	76 - 144	
Styrene	20.0	19.4		ppb v/v		98	75 - 135	
1,1,2,2-Tetrachloroethane	20.0	19.6		ppb v/v		94	56 - 138	
Tetrachloroethylene	20.0	18.8		ppb v/v		94	71 - 132	
Toluene	20.0	18.8		ppb v/v		74	59 - 150	
1,2,4-Trichlorobenzene	20.0	14.7		ppb v/v		94	65 - 124	
1,1,1-Trichloroethane	20.0	18.8		ppb v/v		99	71 - 131	
1,1,2-Trichloroethane	20.0	19.8		ppb v/v		94	64 - 127	
Trichloroethylene	20.0	18.7		ppb v/v		90	55 - 141	
1,4-Dioxane	20.0	18.0		ppb v/v		97	68 - 128	
Trichlorofluoromethane	20.0	19.4		ppb v/v		88	50 - 132	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.6		ppb v/v		87	61 - 145	
1,2,4-Trimethylbenzene	20.0	17.3		ppb v/v		97	65 - 136	
1,3,5-Trimethylbenzene	20.0	19.5		ppb v/v		104	77 - 134	
Vinyl acetate	20.0	20.9		ppb v/v		106	69 - 129	
Vinyl chloride	20.0	21.3		ppb v/v		98	75 - 138	
m,p-Xylene	40.0	39.1		ppb v/v		99	77 - 132	
o-Xylene	20.0	19.7		ppb v/v		76	58 - 150	
Naphthalene	20.0	15.3		ppb v/v				
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier				103	
Acetone	48	43.3		ug/m3		91	71 - 131	
Benzene	64	59.6		ug/m3		93	68 - 128	
Benzyl chloride	100	80.7		ug/m3		78	58 - 120	
Bromodichloromethane	130	125		ug/m3		93	65 - 130	
Bromoform	210	193		ug/m3		93	64 - 144	
Bromomethane	78	80.8		ug/m3		104	70 - 131	
2-Butanone (MEK)	59	54.0		ug/m3		92	71 - 131	
Carbon disulfide	62	56.5		ug/m3		91	63 - 123	
Carbon tetrachloride	130	117		ug/m3		93	67 - 127	
Chlorobenzene	92	87.3		ug/m3		95	70 - 132	
Dibromochloromethane	170	161		ug/m3		95	68 - 128	
Chloroethane	53	55.2		ug/m3		104	70 - 131	
Chloroform	98	92.1		ug/m3		94	69 - 129	
Chloromethane	41	43.9		ug/m3		106	67 - 127	
1,2-Dibromoethane (EDB)	150	149		ug/m3		97	68 - 131	
1,2-Dichlorobenzene	120	111		ug/m3		92	73 - 143	
1,3-Dichlorobenzene	120	114		ug/m3		95	77 - 136	
1,4-Dichlorobenzene	120	113		ug/m3		94	73 - 143	
Dichlorodifluoromethane	99	97.9		ug/m3		99	69 - 129	
1,1-Dichloroethane	81	78.1		ug/m3		97	65 - 125	

TestAmerica Sacramento

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 320-146793/3

Matrix: Air

Analysis Batch: 146793

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	5
	Added	Result	Qualifier				Limits		
1,2-Dichloroethane	81	77.1		ug/m3		95	71 - 131		6
1,1-Dichloroethene	79	70.5		ug/m3		89	53 - 128		7
cis-1,2-Dichloroethene	79	74.1		ug/m3		93	68 - 128		8
trans-1,2-Dichloroethene	79	75.1		ug/m3		95	70 - 130		9
1,2-Dichloropropane	92	90.8		ug/m3		98	74 - 128		10
cis-1,3-Dichloropropene	91	92.4		ug/m3		102	78 - 132		11
trans-1,3-Dichloropropene	91	80.2		ug/m3		88	56 - 136		12
1,2-Dichloro-1,1,2,2-tetrafluoroethane	140	144		ug/m3		103	64 - 124		13
Ethylbenzene	87	83.1		ug/m3		96	76 - 136		14
4-Ethyltoluene	98	94.8		ug/m3		96	62 - 136		15
Hexachlorobutadiene	210	154		ug/m3		72	42 - 150		16
2-Hexanone	82	78.8		ug/m3		96	70 - 128		17
Methylene Chloride	69	63.9		ug/m3		92	65 - 125		18
4-Methyl-2-pentanone (MIBK)	82	77.7		ug/m3		95	73 - 133		19
Styrene	85	82.6		ug/m3		97	76 - 144		20
1,1,2,2-Tetrachloroethane	140	134		ug/m3		98	75 - 135		21
Tetrachloroethene	140	127		ug/m3		94	56 - 138		22
Toluene	75	71.0		ug/m3		94	71 - 132		23
1,2,4-Trichlorobenzene	150	109		ug/m3		74	59 - 150		24
1,1,1-Trichloroethane	110	102		ug/m3		94	65 - 124		25
1,1,2-Trichloroethane	110	108		ug/m3		99	71 - 131		26
Trichloroethene	110	101		ug/m3		94	64 - 127		27
1,4-Dioxane	72	64.8		ug/m3		90	55 - 141		28
Trichlorofluoromethane	110	109		ug/m3		97	68 - 128		29
1,1,2-Trichloro-1,2,2-trifluoroethane	150	135		ug/m3		88	50 - 132		30
Acetone	98	85.2		ug/m3		87	61 - 145		31
1,3,5-Trimethylbenzene	98	95.7		ug/m3		97	65 - 136		32
Vinyl acetate	70	73.5		ug/m3		104	77 - 134		33
Vinyl chloride	51	54.4		ug/m3		106	69 - 129		34
m,p-Xylene	170	170		ug/m3		98	75 - 138		35
o-Xylene	87	85.6		ug/m3		99	77 - 132		36
Naphthalene	100	80.1		ug/m3		76	58 - 150		37

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Lab Sample ID: LCSD 320-146793/4

Matrix: Air

Analysis Batch: 146793

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added	Result	Qualifier				Limits		
Acetone	20.0	17.6		ppb v/v		88	71 - 131	3	25
Benzene	20.0	18.8		ppb v/v		94	68 - 128	1	25
Benzyl chloride	20.0	15.7		ppb v/v		78	58 - 120	0	25

TestAmerica Sacramento

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 320-146793/4

Matrix: Air

Analysis Batch: 146793

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Bromodichloromethane	20.0	18.8		ppb v/v	94	65 - 130	1	25	
Bromoform	20.0	18.6		ppb v/v	93	64 - 144	1	25	
Bromomethane	20.0	20.3		ppb v/v	101	70 - 131	2	25	
2-Butanone (MEK)	20.0	17.7		ppb v/v	88	71 - 131	4	25	
Carbon disulfide	20.0	17.6		ppb v/v	88	63 - 123	3	25	
Carbon tetrachloride	20.0	18.5		ppb v/v	93	67 - 127	1	25	
Chlorobenzene	20.0	19.1		ppb v/v	96	70 - 132	1	25	
Dibromochloromethane	20.0	18.9		ppb v/v	95	68 - 128	0	25	
Chloroethane	20.0	20.4		ppb v/v	102	70 - 131	2	25	
Chloroform	20.0	18.3		ppb v/v	91	69 - 129	3	25	
Chloromethane	20.0	20.6		ppb v/v	103	67 - 127	3	25	
1,2-Dibromoethane (EDB)	20.0	19.2		ppb v/v	96	68 - 131	1	25	
1,2-Dichlorobenzene	20.0	18.5		ppb v/v	92	73 - 143	0	25	
1,3-Dichlorobenzene	20.0	18.9		ppb v/v	95	77 - 136	0	25	
1,4-Dichlorobenzene	20.0	18.7		ppb v/v	94	73 - 143	0	25	
Dichlorodifluoromethane	20.0	19.2		ppb v/v	96	69 - 129	3	25	
1,1-Dichloroethane	20.0	18.7		ppb v/v	93	65 - 125	3	25	
1,2-Dichloroethane	20.0	19.1		ppb v/v	95	71 - 131	0	25	
1,1-Dichloroethene	20.0	17.1		ppb v/v	86	53 - 128	4	25	
cis-1,2-Dichloroethene	20.0	18.3		ppb v/v	92	68 - 128	2	25	
trans-1,2-Dichloroethene	20.0	18.3		ppb v/v	91	70 - 130	4	25	
1,2-Dichloropropane	20.0	19.6		ppb v/v	98	74 - 128	0	25	
cis-1,3-Dichloropropene	20.0	20.4		ppb v/v	102	78 - 132	0	25	
trans-1,3-Dichloropropene	20.0	17.7		ppb v/v	89	56 - 136	0	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	20.0	20.0		ppb v/v	100	64 - 124	3	25	
Ethylbenzene	20.0	19.1		ppb v/v	96	76 - 136	0	25	
4-Ethyltoluene	20.0	19.3		ppb v/v	96	62 - 136	0	25	
Hexachlorobutadiene	20.0	14.5		ppb v/v	73	42 - 150	0	25	
2-Hexanone	20.0	19.1		ppb v/v	96	70 - 128	0	25	
Methylene Chloride	20.0	17.8		ppb v/v	89	65 - 125	3	25	
4-Methyl-2-pentanone (MIBK)	20.0	18.9		ppb v/v	95	73 - 133	0	25	
Styrene	20.0	19.4		ppb v/v	97	76 - 144	0	25	
1,1,2,2-Tetrachloroethane	20.0	19.6		ppb v/v	98	75 - 135	0	25	
Tetrachloroethene	20.0	18.8		ppb v/v	94	56 - 138	0	25	
Toluene	20.0	19.0		ppb v/v	95	71 - 132	1	25	
1,2,4-Trichlorobenzene	20.0	14.6		ppb v/v	73	59 - 150	1	25	
1,1,1-Trichloroethane	20.0	18.2		ppb v/v	91	65 - 124	3	25	
1,1,2-Trichloroethane	20.0	19.6		ppb v/v	98	71 - 131	1	25	
Trichloroethene	20.0	18.9		ppb v/v	95	64 - 127	1	25	
1,4-Dioxane	20.0	18.1		ppb v/v	90	55 - 141	1	25	
Trichlorofluoromethane	20.0	18.8		ppb v/v	94	68 - 128	3	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.1		ppb v/v	86	50 - 132	3	25	
1,2,4-Trimethylbenzene	20.0	17.5		ppb v/v	87	61 - 145	1	25	
1,3,5-Trimethylbenzene	20.0	19.4		ppb v/v	97	65 - 136	0	25	
Vinyl acetate	20.0	20.0		ppb v/v	100	77 - 134	4	25	
Vinyl chloride	20.0	21.0		ppb v/v	105	69 - 129	2	25	
m,p-Xylene	40.0	39.0		ppb v/v	97	75 - 138	0	25	

TestAmerica Sacramento

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 320-146793/4

Matrix: Air

Analysis Batch: 146793

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
o-Xylene	20.0	19.7		ppb v/v		99	77 - 132	0	25
Naphthalene	20.0	15.0		ppb v/v		75	58 - 150	2	25
Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
Acetone	Added	Result	Qualifier				Limits		
Benzene	48	41.8		ug/m3		88	71 - 131	3	25
Benzyl chloride	64	60.1		ug/m3		94	68 - 128	1	25
Bromodichloromethane	100	81.1		ug/m3		78	58 - 120	0	25
Bromoform	130	126		ug/m3		94	65 - 130	1	25
Bromomethane	210	192		ug/m3		93	64 - 144	1	25
2-Butanone (MEK)	78	78.8		ug/m3		101	70 - 131	2	25
Carbon disulfide	59	52.1		ug/m3		88	71 - 131	4	25
Carbon tetrachloride	62	54.9		ug/m3		88	63 - 123	3	25
Chlorobenzene	130	117		ug/m3		93	67 - 127	1	25
Dibromochloromethane	92	88.0		ug/m3		96	70 - 132	1	25
Chloroethane	170	161		ug/m3		95	68 - 128	0	25
Chloroform	53	53.8		ug/m3		102	70 - 131	2	25
Chloromethane	98	89.3		ug/m3		91	69 - 129	3	25
1,2-Dibromoethane (EDB)	41	42.6		ug/m3		103	67 - 127	3	25
1,2-Dichlorobenzene	150	147		ug/m3		96	68 - 131	1	25
1,3-Dichlorobenzene	120	111		ug/m3		92	73 - 143	0	25
1,4-Dichlorobenzene	120	114		ug/m3		95	77 - 136	0	25
Dichlorodifluoromethane	120	113		ug/m3		94	73 - 143	0	25
99	95.0			ug/m3		96	69 - 129	3	25
1,1-Dichloroethane	99	81	75.5	ug/m3		93	65 - 125	3	25
1,2-Dichloroethane	81	81	77.2	ug/m3		95	71 - 131	0	25
1,1-Dichloroethene	79	79	67.9	ug/m3		86	53 - 128	4	25
cis-1,2-Dichloroethene	79	79	72.7	ug/m3		92	68 - 128	2	25
trans-1,2-Dichloroethene	79	79	72.4	ug/m3		91	70 - 130	4	25
1,2-Dichloropropane	79	92	90.6	ug/m3		98	74 - 128	0	25
cis-1,3-Dichloropropene	79	91	92.5	ug/m3		102	78 - 132	0	25
trans-1,3-Dichloropropene	79	91	80.4	ug/m3		89	56 - 136	0	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	140	140		ug/m3		100	64 - 124	3	25
Ethylbenzene	87	83.1		ug/m3		96	76 - 136	0	25
4-Ethyltoluene	98	98	94.7	ug/m3		96	62 - 136	0	25
Hexachlorobutadiene	210	210	155	ug/m3		73	42 - 150	0	25
2-Hexanone	82	82	78.5	ug/m3		96	70 - 128	0	25
Methylene Chloride	69	69	61.8	ug/m3		89	65 - 125	3	25
4-Methyl-2-pentanone (MIBK)	82	82	77.5	ug/m3		95	73 - 133	0	25
Styrene	85	85	82.7	ug/m3		97	76 - 144	0	25
1,1,2,2-Tetrachloroethane	140	140	134	ug/m3		98	75 - 135	0	25
Tetrachloroethene	140	140	128	ug/m3		94	56 - 138	0	25
Toluene	75	75	71.4	ug/m3		95	71 - 132	1	25
1,2,4-Trichlorobenzene	150	150	108	ug/m3		73	59 - 150	1	25
1,1,1-Trichloroethane	110	110	99.2	ug/m3		91	65 - 124	3	25
1,1,2-Trichloroethane	110	110	107	ug/m3		98	71 - 131	1	25
Trichloroethene	110	110	102	ug/m3		95	64 - 127	1	25
1,4-Dioxane	72	72	65.2	ug/m3		90	55 - 141	1	25

TestAmerica Sacramento

QC Sample Results

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCSD 320-146793/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 146793

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added	Result	Qualifier				Limits		
Trichlorofluoromethane	110	106		ug/m3	94	68 - 128	3	25	
1,1,2-Trichloro-1,2,2-trifluoroethane	150	131		ug/m3	86	50 - 132	3	25	
1,2,4-Trimethylbenzene	98	85.9		ug/m3	87	61 - 145	1	25	
1,3,5-Trimethylbenzene	98	95.3		ug/m3	97	65 - 136	0	25	
Vinyl acetate	70	70.3		ug/m3	100	77 - 134	4	25	
Vinyl chloride	51	53.6		ug/m3	105	69 - 129	2	25	
m,p-Xylene	170	169		ug/m3	97	75 - 138	0	25	
o-Xylene	87	85.6		ug/m3	99	77 - 132	0	25	
Naphthalene	100	78.6		ug/m3	75	58 - 150	2	25	

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Sacramento

QC Association Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Air - GC/MS VOA

Analysis Batch: 146793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-25032-1	SVE-1	Total/NA	Air	TO-15	5
320-25032-2	SVE-4	Total/NA	Air	TO-15	6
320-25032-3	SVE-9	Total/NA	Air	TO-15	7
320-25032-4	SVE-10	Total/NA	Air	TO-15	8
320-25032-5	SVE-12	Total/NA	Air	TO-15	9
320-25032-6	SVE-15	Total/NA	Air	TO-15	10
320-25032-7	SVE-16	Total/NA	Air	TO-15	11
320-25032-8	SVE-17	Total/NA	Air	TO-15	12
320-25032-9	SVE-18	Total/NA	Air	TO-15	13
320-25032-10	SVE-Influent	Total/NA	Air	TO-15	14
MB 320-146793/6	Method Blank	Total/NA	Air	TO-15	15
LCS 320-146793/3	Lab Control Sample	Total/NA	Air	TO-15	16
LCSD 320-146793/4	Lab Control Sample Dup	Total/NA	Air	TO-15	

Lab Chronicle

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-1

Date Collected: 01/16/17 10:04
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	490 mL	250 mL	146793	01/19/17 08:17	AP1	TAL SAC

Client Sample ID: SVE-4

Date Collected: 01/16/17 10:32
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	502 mL	250 mL	146793	01/18/17 19:50	AP1	TAL SAC

Client Sample ID: SVE-9

Date Collected: 01/16/17 10:52
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	492 mL	250 mL	146793	01/18/17 20:48	AP1	TAL SAC

Client Sample ID: SVE-10

Date Collected: 01/16/17 10:53
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	470 mL	250 mL	146793	01/18/17 21:43	AP1	TAL SAC

Client Sample ID: SVE-12

Date Collected: 01/16/17 11:12
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	427 mL	250 mL	146793	01/18/17 22:38	AP1	TAL SAC

Client Sample ID: SVE-15

Date Collected: 01/16/17 11:13
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	475 mL	250 mL	146793	01/18/17 23:33	AP1	TAL SAC

TestAmerica Sacramento

Lab Chronicle

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Client Sample ID: SVE-16

Date Collected: 01/16/17 11:32
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		317	1.54 mL	250 mL	146793	01/19/17 00:23	AP1	TAL SAC

Client Sample ID: SVE-17

Date Collected: 01/16/17 11:33
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	480 mL	250 mL	146793	01/19/17 01:18	AP1	TAL SAC

Client Sample ID: SVE-18

Date Collected: 01/16/17 11:44
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	493 mL	250 mL	146793	01/19/17 02:14	AP1	TAL SAC

Client Sample ID: SVE-Influent

Date Collected: 01/16/17 11:58
Date Received: 01/16/17 15:05

Lab Sample ID: 320-25032-10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	495 mL	250 mL	146793	01/19/17 03:09	AP1	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

TestAmerica Sacramento

Certification Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Oregon	NELAP	10	4040	01-28-18

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TestAmerica Sacramento

Method Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

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Sample Summary

Client: PES Environmental, Inc.

Project/Site: 6701 Shellmound St, Emeryville Air

TestAmerica Job ID: 320-25032-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-25032-1	SVE-1	Air	01/16/17 10:04	01/16/17 15:05
320-25032-2	SVE-4	Air	01/16/17 10:32	01/16/17 15:05
320-25032-3	SVE-9	Air	01/16/17 10:52	01/16/17 15:05
320-25032-4	SVE-10	Air	01/16/17 10:53	01/16/17 15:05
320-25032-5	SVE-12	Air	01/16/17 11:12	01/16/17 15:05
320-25032-6	SVE-15	Air	01/16/17 11:13	01/16/17 15:05
320-25032-7	SVE-16	Air	01/16/17 11:32	01/16/17 15:05
320-25032-8	SVE-17	Air	01/16/17 11:33	01/16/17 15:05
320-25032-9	SVE-18	Air	01/16/17 11:44	01/16/17 15:05
320-25032-10	SVE-Influent	Air	01/16/17 11:58	01/16/17 15:05

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CHAIN OF CUSTODY RECORD

1682 Novato Boulevard, Suite 100
Novato, California 94947
(415) 899-1600 FAX (415) 899-1601

LABORATORY: TestAmerica

JOB NUMBER: 1448.001.02

NAME / LOCATION: 6701 Shellmound St.

PROJECT MANAGER: C. Baldassari/K. Flory

SAMPLERS:

C. George

REORDERER:

C. George

DATE				SAMPLE NUMBER / DESIGNATION	
YR	MO	DY	TIME		
1	7	6	1	004	SVE-1
1	0	3	2	SVE-4	
1	0	5	2	SVE-9	
1	0	5	3	SVE-10	
1	1	1	2	SVE-12	
1	1	1	3	SVE-15	
1	1	3	2	SVE-16	
1	1	3	3	SVE-17	
1	1	4	4	SVE-18	
1	1	5	8	SVE-19	Initial

NOTES

Turn Around Time:
5-Day TAT (Rush)

REINQUISITIONED BY: (Signature)		RECEIVED BY: (Signature)		DATE TIME	
<u>Troy L. Turner</u>		<u>Troy L. Turner</u>		1/14/17	15:05
		RECEIVED BY: (Signature)		DATE	TIME
		RECEIVED BY: (Signature)		DATE	TIME
		DISPATCHED BY: (Signature)		DATE	TIME
METHOD OF SHIPMENT:					



Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 320-25032-1

Login Number: 25032

List Source: TestAmerica Sacramento

List Number: 1

Creator: Edman, Connor M

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Batch Certification

Certification Type

TO-15 Sean

Date Cleaned/Batch ID

0120716

Date of QC

12/9/2016

Data File Number

C:\MSD\HEM\1\DATA\161208\

→ MSF120826.d

CANISTER ID NUMBERS



340000903

34001619

0512

8286

34001634

34001097

34001138

34001948

34001079

34000633

34002001

34000742

34001797

34000688

34000965

11139



320-24121 Chain of Custody

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

* INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By:

12/9/16

Date:

2nd level Reviewed By:

12/12/16

Date:



Sacramento
Canister QC Certification
Batch Certification

Certification Type

T0-15 Scan

Date Cleaned/Batch ID

1/11/17 320-24936



320-24936 Chain of Custody

Date of QC

1/13/2017

Data File Number

C:\MSDOCS\1\DATA\170113\

→ MS7011307-1

CANISTER ID NUMBERS

34001636 *

34001671

34001647

34001190

34000767

34000331

34001088

34000645

34001792

34001100

8323

34001117

34001622

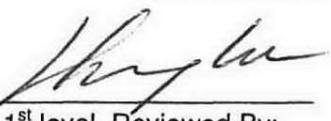
34001220

34001940

34001853

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

* INDICATES THE CAN OR CANS WHICH WERE SCREENED.


1st level Reviewed By:

1/16/17

Date:


2nd level Reviewed By:

1/16/17

Date:

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento

Job No.: 320-24121-1

SDG No.: _____

Client Sample ID: 34000903

Lab Sample ID: 320-24121-1

Matrix: Air

Lab File ID: MS7120826.D

Analysis Method: TO-15

Date Collected: 12/07/2016 00:00

Sample wt/vol: 500 (mL)

Date Analyzed: 12/09/2016 10:46

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: RTX-Volatiles ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 141172

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	0.28	J	5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento

Job No.: 320-24121-1

SDG No.: _____

Client Sample ID: 34000903

Lab Sample ID: 320-24121-1

Matrix: Air

Lab File ID: MS7120826.D

Analysis Method: TO-15

Date Collected: 12/07/2016 00:00

Sample wt/vol: 500 (mL)

Date Analyzed: 12/09/2016 10:46

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: RTX-Volatiles ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 141172

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	ND		0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	0.14	J	0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento

Job No.: 320-24121-1

SDG No.: _____

Client Sample ID: 34000903

Lab Sample ID: 320-24121-1

Matrix: Air

Lab File ID: MS7120826.D

Analysis Method: TO-15

Date Collected: 12/07/2016 00:00

Sample wt/vol: 500 (mL)

Date Analyzed: 12/09/2016 10:46

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: RTX-Volatiles ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 141172

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	80		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-130
2037-26-5	Toluene-d8 (Surr)	97		70-130

Report Date: 09-Dec-2016 11:43:15

Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS7\20161208-37628.b\MS7120826.D
 Lims ID: 320-24121-A-1
 Client ID: 34000903
 Sample Type: Client
 Inject. Date: 09-Dec-2016 10:46:30 ALS Bottle#: 16 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 320-24121-A-1
 Misc. Info.: 500 mL CAN CERT
 Operator ID: LHS Instrument ID: ATMS7
 Method: \\ChromNA\Sacramento\ChromData\ATMS7\20161208-37628.b\TO15_ATMS7N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 09-Dec-2016 11:43:08 Calib Date: 30-Nov-2016 05:05:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Sacramento\ChromData\ATMS7\20161129-37330.b\MS7112921.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: leeh Date: 09-Dec-2016 11:43:08

Reagents:

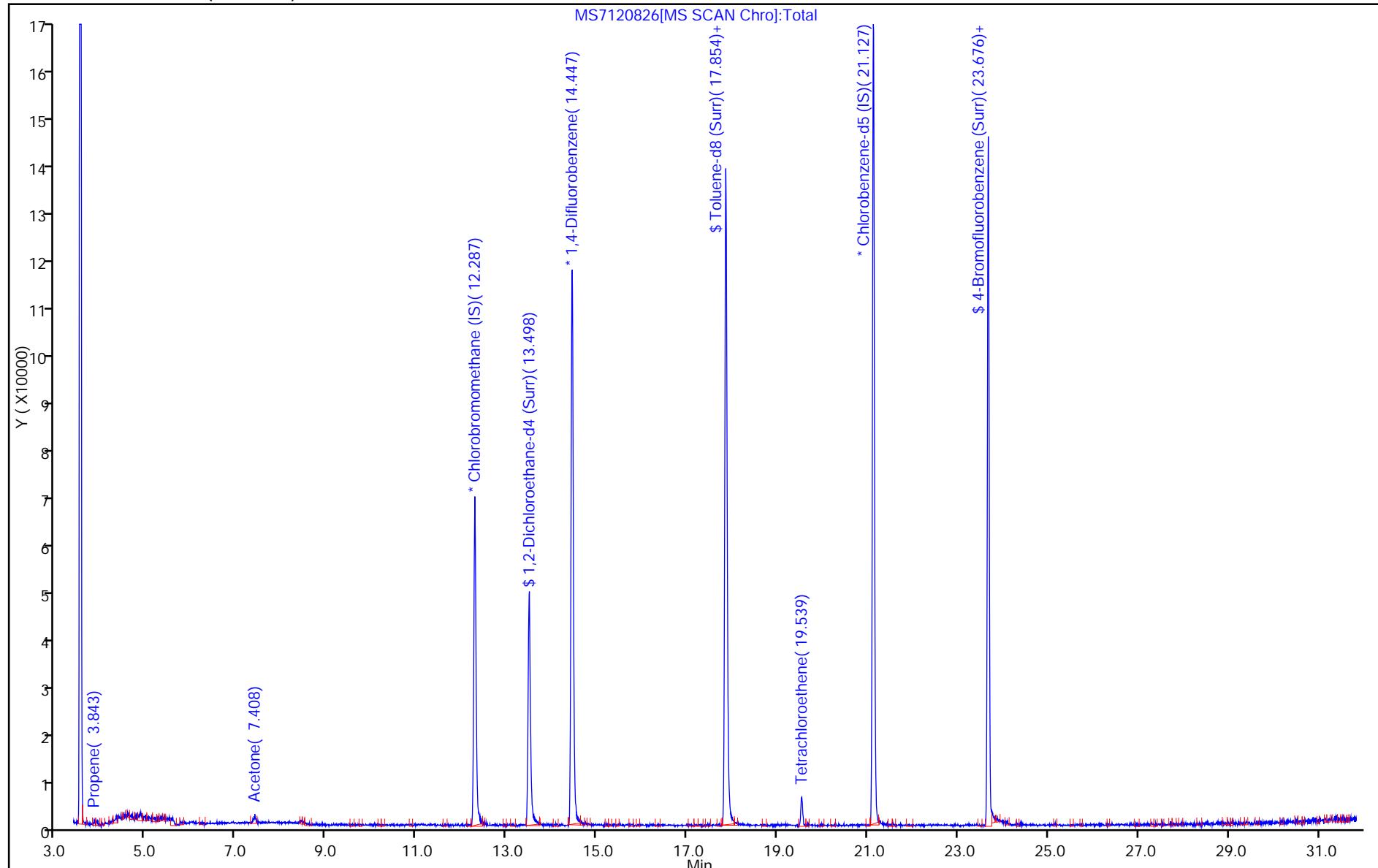
VAMSIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Report Date: 09-Dec-2016 11:43:16

Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Sacramento
Data File: \\ChromNA\\Sacramento\\ChromData\\ATMS7\\20161208-37628.b\\MS7120826.D
Injection Date: 09-Dec-2016 10:46:30 Instrument ID: ATMS7
Lims ID: 320-24121-A-1 Lab Sample ID: 320-24121-1
Client ID: 34000903
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm)

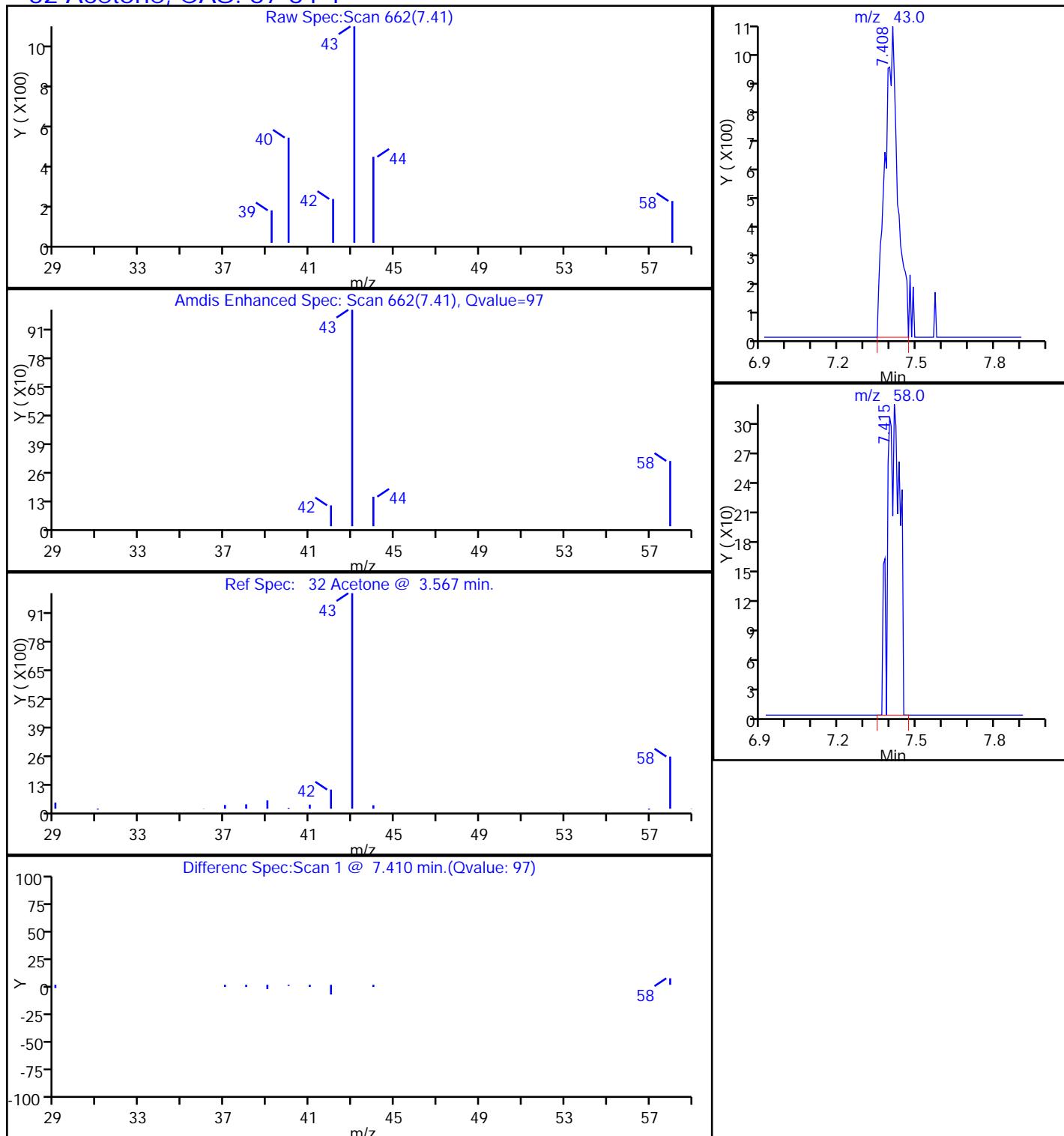
Operator ID: LHS
Worklist Smp#: 25
ALS Bottle#: 16

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Report Date: 09-Dec-2016 11:43:16

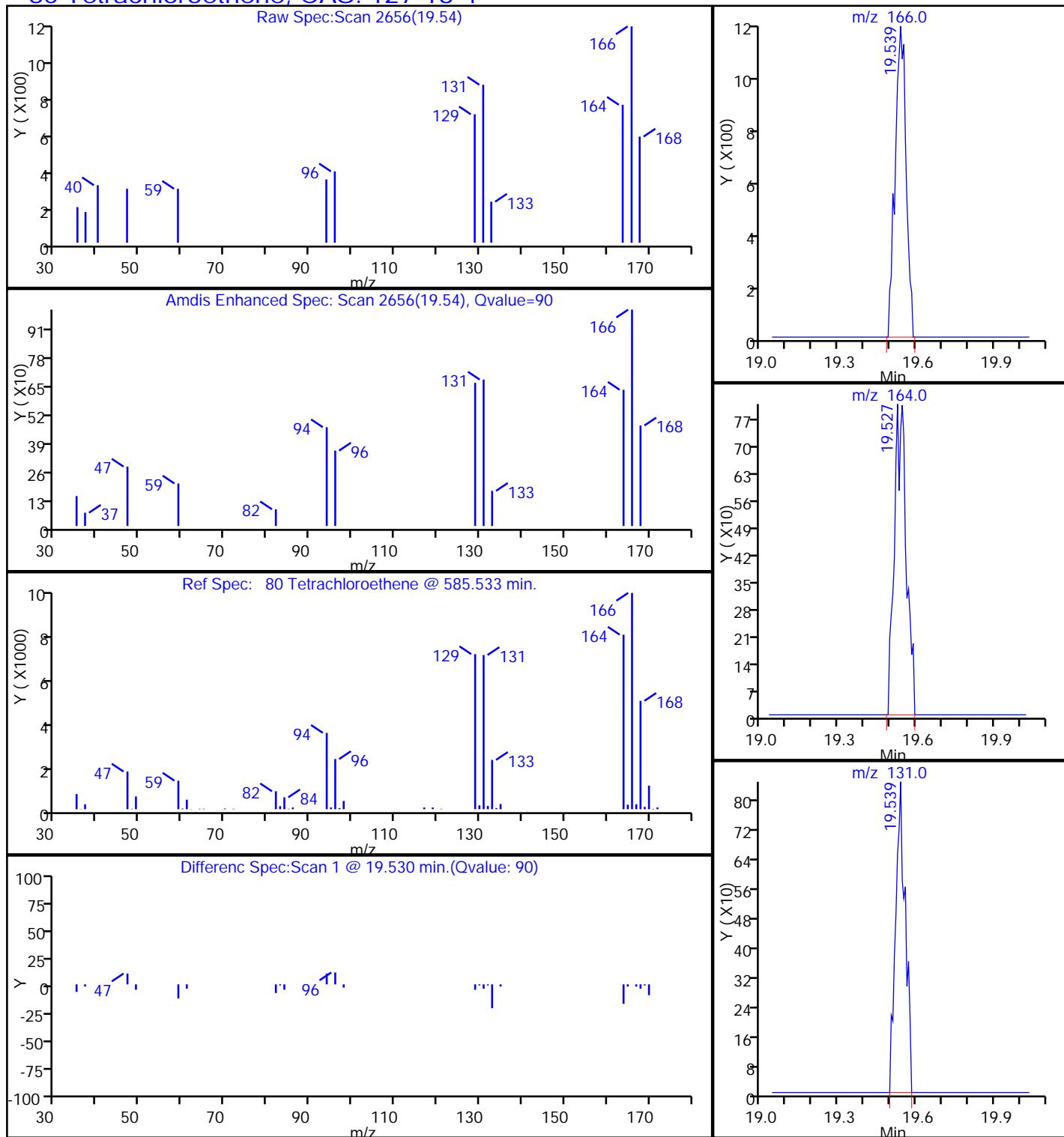
Chrom Revision: 2.2 05-Dec-2016 12:37:22

TestAmerica Sacramento
 Data File: \\ChromNA\\Sacramento\\ChromData\\ATMS7\\20161208-37628.b\\MS7120826.D
 Injection Date: 09-Dec-2016 10:46:30 Instrument ID: ATMS7
 Lims ID: 320-24121-A-1 Lab Sample ID: 320-24121-1
 Client ID: 34000903
 Operator ID: LHS ALS Bottle#: 16 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
 Column: RTX Volatiles (0.32 mm) Detector: MS SCAN

32 Acetone, CAS: 67-64-1

TestAmerica Sacramento
 Data File: \\ChromNA\\Sacramento\\ChromData\\ATMS7\\20161208-37628.b\\MS7120826.D
 Injection Date: 09-Dec-2016 10:46:30 Instrument ID: ATMS7
 Lims ID: 320-24121-A-1 Lab Sample ID: 320-24121-1
 Client ID: 34000903
 Operator ID: LHS ALS Bottle#: 16 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
 Column: RTX Volatiles (0.32 mm) Detector: MS SCAN

80 Tetrachloroethene, CAS: 127-18-4



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento

Job No.: 320-24936-1

SDG No.: _____

Client Sample ID: 34001636

Lab Sample ID: 320-24936-1

Matrix: Air

Lab File ID: MS7011307.D

Analysis Method: TO-15

Date Collected: 01/11/2017 00:00

Sample wt/vol: 500 (mL)

Date Analyzed: 01/13/2017 15:02

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: RTX-Volatiles ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 146207

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	0.27	J	5.0	0.18
107-02-8	Acrolein	ND		2.0	0.22
107-13-1	Acrylonitrile	ND		2.0	0.19
107-05-1	Allyl chloride	ND		0.80	0.11
71-43-2	Benzene	ND		0.40	0.079
100-44-7	Benzyl chloride	ND		0.80	0.16
75-27-4	Bromodichloromethane	ND		0.30	0.066
75-25-2	Bromoform	ND		0.40	0.070
74-83-9	Bromomethane	ND		0.80	0.34
106-99-0	1,3-Butadiene	ND		0.80	0.15
106-97-8	n-Butane	ND		0.40	0.15
78-93-3	2-Butanone (MEK)	ND		0.80	0.20
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0	0.11
104-51-8	n-Butylbenzene	ND		0.40	0.18
135-98-8	sec-Butylbenzene	ND		0.40	0.070
98-06-6	tert-Butylbenzene	ND		0.80	0.068
75-15-0	Carbon disulfide	ND		0.80	0.078
56-23-5	Carbon tetrachloride	ND		0.80	0.064
108-90-7	Chlorobenzene	ND		0.30	0.064
75-45-6	Chlorodifluoromethane	ND		0.80	0.27
75-00-3	Chloroethane	ND		0.80	0.31
67-66-3	Chloroform	ND		0.30	0.095
74-87-3	Chloromethane	ND		0.80	0.20
95-49-8	2-Chlorotoluene	ND		0.40	0.080
110-82-7	Cyclohexane	ND		0.40	0.084
124-48-1	Dibromochloromethane	ND		0.40	0.079
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.075
74-95-3	Dibromomethane	ND		0.40	0.057
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40	0.16
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.13
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.11
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.072
107-06-2	1,2-Dichloroethane	ND		0.80	0.088

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento

Job No.: 320-24936-1

SDG No.: _____

Client Sample ID: 34001636

Lab Sample ID: 320-24936-1

Matrix: Air

Lab File ID: MS7011307.D

Analysis Method: TO-15

Date Collected: 01/11/2017 00:00

Sample wt/vol: 500 (mL)

Date Analyzed: 01/13/2017 15:02

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: RTX-Volatiles ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 146207

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.13
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.089
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.10
78-87-5	1,2-Dichloropropane	ND		0.40	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.10
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.088
123-91-1	1,4-Dioxane	ND		0.80	0.10
141-78-6	Ethyl acetate	ND		0.30	0.18
100-41-4	Ethylbenzene	ND		0.40	0.063
622-96-8	4-Ethyltoluene	ND		0.40	0.19
142-82-5	n-Heptane	ND		0.80	0.063
87-68-3	Hexachlorobutadiene	ND		2.0	0.43
110-54-3	n-Hexane	ND		0.80	0.075
591-78-6	2-Hexanone	ND		0.40	0.087
98-82-8	Isopropylbenzene	ND		0.80	0.10
99-87-6	4-Isopropyltoluene	ND		0.80	0.12
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.12
80-62-6	Methyl methacrylate	ND		0.80	0.16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.14
75-09-2	Methylene Chloride	ND		0.40	0.072
98-83-9	alpha-Methylstyrene	ND		0.40	0.065
91-20-3	Naphthalene	ND		0.80	0.56
111-65-9	n-Octane	ND		0.40	0.055
109-66-0	n-Pentane	ND		0.80	0.26
115-07-1	Propylene	ND		0.40	0.099
103-65-1	N-Propylbenzene	ND		0.40	0.059
100-42-5	Styrene	ND		0.40	0.059
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.069
127-18-4	Tetrachloroethene	ND		0.40	0.051
109-99-9	Tetrahydrofuran	ND		0.80	0.21
108-88-3	Toluene	ND		0.40	0.051
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.16
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.43
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.065
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.067

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento

Job No.: 320-24936-1

SDG No.: _____

Client Sample ID: 34001636

Lab Sample ID: 320-24936-1

Matrix: Air

Lab File ID: MS7011307.D

Analysis Method: TO-15

Date Collected: 01/11/2017 00:00

Sample wt/vol: 500 (mL)

Date Analyzed: 01/13/2017 15:02

Soil Aliquot Vol: _____

Dilution Factor: 1

Soil Extract Vol.: _____

GC Column: RTX-Volatiles ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 146207

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.11
75-69-4	Trichlorofluoromethane	ND		0.40	0.20
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.17
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.16
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.13
540-84-1	2,2,4-Trimethylpentane	ND		0.40	0.071
108-05-4	Vinyl acetate	ND		0.80	0.15
593-60-2	Vinyl bromide	ND		0.80	0.26
75-01-4	Vinyl chloride	ND		0.40	0.12
179601-23-1	m,p-Xylene	ND		0.80	0.10
95-47-6	o-Xylene	ND		0.40	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\ChromNA\Sacramento\ChromData\ATMS7\20170113-38773.b\MS7011307.D				
Lims ID:	320-24936-A-1				
Client ID:	34001636				
Sample Type:	Client				
Inject. Date:	13-Jan-2017 15:02:30	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-24936-A-1				
Misc. Info.:	500 mL CAN CERT				
Operator ID:	LHS	Instrument ID:	ATMS7		
Method:	\ChromNA\Sacramento\ChromData\ATMS7\20170113-38773.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	16-Jan-2017 09:03:17	Calib Date:	11-Jan-2017 11:01:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\ChromNA\Sacramento\ChromData\ATMS7\20170110-38676.b\MS7011024.D				
Column 1 :	RTX Volatiles (0.32 mm)				Det: MS SCAN
Process Host:	XAWRK013				

First Level Reviewer: phanthasena Date: 16-Jan-2017 09:03:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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* 1 Chlorobromomethane (IS)	130	12.302	12.302	0.000	95	22473	4.00
* 2 1,4-Difluorobenzene	114	14.450	14.450	0.000	96	94346	4.00
* 3 Chlorobenzene-d5 (IS)	117	21.136	21.130	0.006	93	103632	4.00
\$ 4 1,2-Dichloroethane-d4 (Sur)	65	13.495	13.489	0.006	99	44269	4.07
\$ 5 Toluene-d8 (Surr)	100	17.857	17.850	0.007	97	65684	4.07
\$ 6 4-Bromofluorobenzene (Surr)	95	23.679	23.672	0.007	85	69811	3.79
32 Acetone	43	7.417	7.332	0.085	88	2652	0.2729
102 4-Ethyltoluene	120	24.336	24.317	0.019	1	509	0.0389

Reagents:

VAMSI20_00002 Amount Added: 50.00 Units: mL Run Reagent

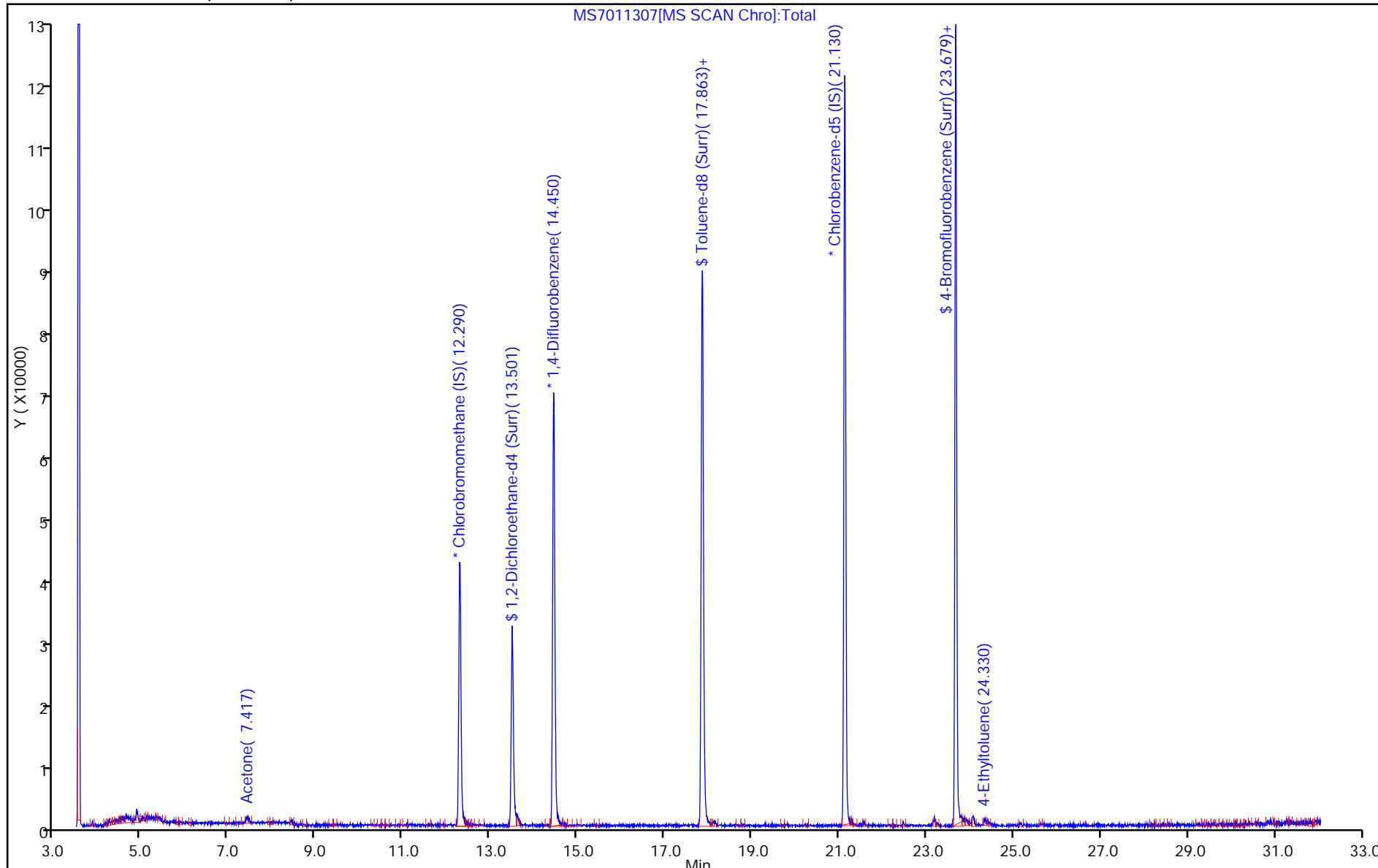
Report Date: 16-Jan-2017 09:03:18

Chrom Revision: 2.2 10-Jan-2017 11:26:10

TestAmerica Sacramento

Data File: \\ChromNA\\Sacramento\\ChromData\\ATMS7\\20170113-38773.b\\MS7011307.D
Injection Date: 13-Jan-2017 15:02:30 Instrument ID: ATMS7
Lims ID: 320-24936-A-1 Lab Sample ID: 320-24936-1
Client ID: 34001636
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm)

Operator ID: LHS
Worklist Smp#: 6
ALS Bottle#: 5

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Report Date: 16-Jan-2017 09:03:18

Chrom Revision: 2.2 10-Jan-2017 11:26:10

Data File: \\ChromNA\\Sacramento\\ChromData\\ATMS7\\20170113-38773.b\\MS7011307.D
 Injection Date: 13-Jan-2017 15:02:30 Instrument ID: ATMS7
 Lims ID: 320-24936-A-1 Lab Sample ID: 320-24936-1
 Client ID: 34001636
 Operator ID: LHS ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: TO15_ATMS7N Limit Group: MSA - TO15 - ICAL
 Column: RTX Volatiles (0.32 mm) Detector: MS SCAN

32 Acetone, CAS: 67-64-1

