

December 21, 2016

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

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

**TRANSMITTAL LETTER
OFF-SITE SUBSURFACE INVESTIGATION REPORT
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 *Off-Site Subsurface Investigation Report, 6701, 6705, and 6707 Shellmound Street, Emeryville, California* dated December 21, 2016, prepared by PES Environmental, Inc.

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-referenced document for the subject property are true and correct to the best of my knowledge.

Very truly yours,

ANTON EMERYVILLE, LLC



Rachel Green
Development Manager



A Report Prepared For:

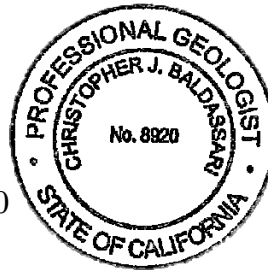
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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DECEMBER 21, 2016

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1.0 INTRODUCTION

This report has been prepared by PES Environmental, Inc. (PES) on behalf of Anton Emeryville, LLC (Anton) to present the results of an off-site subsurface investigation conducted at the 6601-6603 Shellmound Street property in Emeryville, California. The off-site building is located adjacent to the southern property boundary of the 6701-6707 Shellmound Street property (the subject property or site). The subject property consists of a single legal parcel identified by Alameda County Assessor's Parcel Number (APN) 049-14906-02, covering approximately 2.27 acres. The site location is shown on Plate 1.

The subject property is currently listed as an open Spills, Leaks, Investigation and Cleanup (SLIC) case under a former site occupant (Mike Roberts Color Production) using the former site address of (6707 Bay Street) with Alameda County Environmental Health (ACEH) as the lead environmental regulatory agency. PES is assisting Anton in working with ACEH to obtain SLIC case closure as part of the site redevelopment process. PES understands Anton is seeking to acquire the site for redevelopment purposes and the development plans include demolition of existing buildings; grading and soil excavation for utilities and building foundations; and construction of a new multi-story multi-use building and associated parking, driveway, and landscaped areas.

Numerous investigations have been conducted at the subject property to assess conditions in soil, soil gas, and groundwater as part of pre-construction site characterization activities. The results of the most recent site investigation were presented in PES' April 8, 2016 *Pre-Construction Subsurface Investigation Report* (Investigation Report), which documented the presence of elevated chlorinated volatile organic compounds (VOCs) in soil vapor and soil adjacent to the shared property boundary between the subject property and the off-site property. Based in part on review of the Investigation Report, ACEH requested delineation of the extent of VOC contamination in soil, soil gas, and groundwater at the adjacent off-site 6601-6603 Shellmound Street property¹.

The investigation activities described herein were conducted in accordance with PES' *Work Plan for Off-Site Subsurface Investigation* (Off-Site Work Plan) dated August 29, 2016 (PES, 2016d). The Off-Site Work Plan was conditionally approved by Alameda County Environmental Health (ACEH) in correspondence dated September 26, 2016. The primary objective of the Off-Site Work Plan was to assess the off-site property for the presence of VOCs potentially affecting soil, soil gas, and groundwater which may have originated from a release or releases on or near the shared property boundary.

¹ Alameda County Environmental Health (ACEH), 2016. *Conditional Interim Remedial Plan Approval and Work Plan Request; SCP Case RO000548 and Geotracker Global ID T0600100894, Mike Roberts Color Production, 6707 Bay Street, Emeryville, CA 94608*. April 26.

2.0 BACKGROUND INFORMATION

The existing building at 6601-6603 Shellmound Street was constructed in 1959 with a slab-on-grade concrete flooring and pre-fabricated exterior concrete walls. The exterior of the property consists of asphalt paved parking and driving areas on the south and west sides of the building.

Available historical information indicates the building was initially in use as a warehouse and wholesale distribution facility for sugar and liquor items. The original warehouse building was converted to office space during various renovations performed between the 1970s to 1990s. The site was occupied by Sybase in the early 1990s, and Ex'pression College for Digital Arts occupied the off-site building beginning in 1998.

2.1 Site Geology and Hydrogeology

Based on the results of investigations performed on the subject property and in the vicinity, the subject property is underlain by fill material overlying deposits of native silts and clays known locally as Old Bay Mud. The fill material ranges in thickness from approximately 10 to 19 feet and consists primarily of coarse-grained sands and gravels that contain varying amounts of fines, and fine-grained silts and clay. The fill material often contains debris (e.g., brick, concrete, metal, asphalt, glass, wood, fabric, and rubber). Fine-grained soils are present directly below the fill material, and generally consisted of dark-colored clays and occasional silts with organic material that represent Old Bay Mud deposits.

As reported in the Investigation Report, shallow groundwater in the southwestern portion of the site was encountered at depths ranging from approximately 12.75 to 13.5 feet bgs. Based on topography and the results of historical groundwater investigations performed at the site and in the vicinity, the predominant groundwater flow direction beneath the site is to the south-southwest toward the San Francisco Bay with localized flow towards the west-northwest in the area of the former USTs in the eastern portion of the site.

Contamination attributable to the non-native fill materials originally used to create the land along the bay-shore area of Emeryville, including the site and immediate vicinity, includes detectable concentrations in soil and shallow groundwater resultant from the presence of VOCs, total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals² in the non-native fill materials.

2.2 2015 Pre-Construction Subsurface Investigation and 2016 Supplemental Investigation

As documented in the Investigation Report, during November 30 through December 3, 2015, PES conducted pre-construction subsurface investigation activities, including soil vapor and soil sampling activities at 65 locations at the site, including 24 soil vapor sampling locations,

² PES, 2015. Conceptual Site Model, 6701 – 6707 Shellmound Street, Emeryville, California, Fuel Leak Case No. RO0000548, GeoTracker Global ID T0600100894. February 6.

28 soil sampling locations, and 13 multi-purpose soil vapor and soil sampling locations to evaluate the subsurface for the presence of VOCs, TPH, SVOCs, PCBs, metals, and/or asbestos-containing material (ACM) related to historical deposition of fill material beneath the site or previous industrial activities conducted at the site.

Following receipt and evaluation of the initial November/December 2015 investigation results and a meeting held January 6, 2016 between ACEH, Anton, and PES, additional soil vapor, soil, and groundwater sampling activities were completed on February 1 through 4, 2016. Sampling activities were conducted at an additional 28 locations (primarily in the southwestern portion of the site), including six soil vapor sampling locations, seven soil sampling locations, one grab groundwater sampling location, five soil and grab groundwater sampling locations, and nine locations for collection of both soil vapor and soil samples. The supplemental investigation activities were conducted with the primary objective of further evaluating the subsurface for the presence of VOCs, particularly vinyl chloride, to evaluate for potential source areas and provide data in support of developing remedial or mitigation measures appropriate for the proposed development.

Soil vapor and soil analytical results presented in the Investigation Report were generally consistent with historical deposition of fill material beneath the subject property and vicinity, with the exception of chlorinated VOCs (in particular, vinyl chloride) detected in the southwestern portion of the site. Elevated concentrations of vinyl chloride in soil vapor and soil were detected beneath the western portion of the alleyway located between the warehouse building and southern property boundary. PES concluded that, based on the results of the two investigations, the magnitude and extent of VOCs in on-site soil vapor, soil, and groundwater had been well characterized, however, based on the observed distribution of VOCs along the southern property boundary, potential impacts to off-site soil vapor, soil, and/or groundwater at the adjacent 6601/6603 Shellmound Street property to the south could not be determined (PES, 2016b).

2.3 Soil Vapor Extraction

A soil vapor extraction (SVE) system and 19 SVE wells were installed in the southwest portion of the on-site building at the subject property. Bay Area Air Quality Management District and ACEH have approved the operation of the SVE system³. Operation of the SVE system commenced November 8, 2016. The radius of influence of the SVE system is expected to affect VOCs beneath northern portion of the off-site property.

³ 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.

3.0 INVESTIGATION METHODS

On October 17 through 21, 2016, soil vapor, soil, and groundwater sampling activities were conducted using direct push drilling methods at 12 locations at the off-site property as shown on Plate 2. To minimize potential disturbance to the occupants while conducting intrusive investigation activities, the investigation was conducted outside of normal business hours (e.g., from 12:00 a.m. to 8:00 a.m.). Implementation of the Off-Site Work Plan investigation activities included:

- Installing and sampling 11 temporary multi-depth soil vapor probes (PSV1 through PSV11) to evaluate soil vapor conditions (at depths of approximately 5 and 10 feet bgs) beneath the concrete floor slab in western portion of the off-site building (Plate 2);
- Installing and sampling 11 temporary sub-slab vapor probes (SSV1 through SSV11) co-located with the soil vapor sample locations (Plate 2);
- Collecting depth-discrete companion soil samples (at approximately 5 and 10 feet bgs) from continuous cores obtained during installation of temporary soil vapor probes at the 5 northern-most sample locations within the building (PSV1 through PSV5; Plate 2); and
- Installing boreholes and collecting grab groundwater samples at 7 locations across the site (Plate 2).

Any significant deviations from the original proposed scope of work necessitated by conditions encountered in the field are detailed in Section 3.4 and Table 1. The preliminary field activities, sampling and analytical methods, and investigation results are discussed below. Drilling and sampling activities were conducted with oversight by a licensed California Professional Geologist.

3.1 Field Preparation Activities

Prior to initiating drilling and sampling activities, a Site-specific Health and Safety Plan conforming to applicable federal, California Occupational Safety and Health Administration (OSHA) and Title 29 CFR 1910.120 guidelines was prepared. Drilling permits were obtained from the Alameda County Public Works Agency, Water Resources Section (ACPWA). Copies of the drilling permits are presented in Appendix A.

PES contacted Underground Service Alert (USA North) before beginning drilling activities to locate and mark utilities at the site. C. Cruz Locators, Inc., of Milpitas, California was retained to clear the boring locations for subsurface utilities and Pacific Coast Cutters, Inc. of Petaluma, California, was retained to core the concrete slab at interior sample locations in advance of drilling activities. Initial utility clearance was completed on October 18, 2016, and concrete coring was conducted on October 19, 2016.

Observations of the interior sanitary sewer line locations during the utility survey indicate that the sewer laterals for the two centrally-located restrooms located within the western half building interior (Plate 2) run in a north-south direction, and tie into a primary sanitary sewer lateral running east-west near the northern wall of the building (Plate 2). The approximate depth of the invert of the primary sanitary sewer line (measured from a cleanout access port, shown on Plate 2) is 42 inches.

Environmental Control Associates (ECA) of Aptos, California, a drilling contractor possessing a valid C-57 water well contractor's license issued by the State of California, was retained to install the temporary soil vapor probes and perform soil and grab groundwater sampling.

3.2 Sub-slab Vapor and Soil Vapor Sampling Activities

Sub-slab and soil vapor sampling activities were conducted in accordance with procedures outlined in the guidance document titled *Advisory – Active Soil Gas Investigations* (ASGI; DTSC, 2015).

3.2.1 Sub-Slab Vapor Port Installation, Sampling, and Analysis

On October 18, 2016, 11 sub-slab vapor sampling ports were installed and sampled at the locations (SSV1 through SSV11) shown on Plate 2. The sub-slab vapor sampling was conducted to assess concentrations of VOCs beneath the concrete slab at the 6601-6603 Shellmound Street building.

Each sub-slab sampling port was installed by drilling a 5/8-inch diameter hole through the concrete slab⁴ and into the underlying fill material using a hand-operated rotary hammer drill. A sub-slab implant, consisting of a 3-inch long purpose-made brass barb fitting and silicone sleeve (Vapor Pin™, manufactured by Cox-Colvin & Associates of Plain City, Ohio), was then hammered into the drill hole using a dead blow mallet. A secondary seal consisting of a 1-inch thick layer of hydrated bentonite was then placed at the interface between each implant and the surrounding concrete slab. Each implant barb was then fitted with a vapor- and water-tight rubber cap. Each sub-slab vapor sampling point was allowed to equilibrate for a minimum of two hours after installation.

Each implant was then connected to a clean laboratory-provided vapor purging and sampling apparatus using new Teflon™ tubing. Prior to purging and the collection of sub-slab vapor samples, shut-in leak testing was performed. The shut-in test consisted of assembling the above-ground sampling apparatus (e.g., valves, lines and fittings downstream from the top of the probe), and evacuating the lines to a measured vacuum of approximately 100 inches of water column (in-H₂O), then shutting the vacuum in with closed valves on opposite ends of the sampling train. A vacuum gauge was then used to assess if there was any observable loss of vacuum (for at least one minute) prior to purging and the collection of sub-slab vapor samples.

⁴ A double concrete slab (total thickness of approximately 11 inches) was identified in the hallway at sampling locations SSV2, SSV3, and SSV4.

If observable vacuum loss was noted, the sample train was re-assembled and the shut-in test was repeated as necessary until a successful shut-in test was performed.

A default of three volumes was purged prior to collection of each sub-slab vapor sample using vapor-tight syringes.

Following completion of the shut-in leak test and purging, sample train leak testing was performed using helium gas as a tracer in combination with a shroud box. The shroud box consisted of a polycarbonate box equipped with a sampling port. The bottom of the shroud box was positioned over the wellhead with the sample collection tubing passing through the bottom. Once in position, the sample train was connected to a batch-certified clean 1-liter Summa™ canister and the shroud box was placed over the entire sample train. Prior to opening the Summa™ canisters, the shroud box was charged by discharging helium into the shroud box via an access port. The shroud box was allowed to remain in place for the duration of sampling. Helium concentrations in the shroud were maintained at approximately two orders of magnitude above the expected laboratory reporting limit for helium and monitored in real time for the duration of sampling using a Radiodetection MGD-2000 helium gas detector.

Following the completion of the sub-slab vapor sampling at each location, the sampling port was removed and backfilled with neat cement grout.

3.2.2 Soil Vapor Probe Installation, Sampling, and Analysis

On October 19 through 21, 2016, ECA utilized a track-mounted limited-access direct push Geoprobe™ drilling rig to install temporary nested soil vapor probes (PSV1 through PSV11) at depths of approximately 5 and 10 feet bgs at the site. Due to drilling refusal at approximately 7 feet bgs at soil vapor probe PSV3, a deeper vapor probe was not installed. Additionally, due to drilling refusal before reaching the target depth of 10.25 feet bgs, soil vapor probes were installed at 9 feet bgs at soil vapor probes PSV2, PSV9, and PSV11.

Soil samples were collected continuously for lithologic description, field screening for VOCs using a photoionization detector (PID). Reusable drilling and soil sampling equipment coming in contact with subsurface material were decontaminated between sampling points using an Alconox™ wash and potable water rinse.

Upon reaching the target depth (10.25 feet bgs at each location), or the maximum achievable depth, a new ceramic soil vapor probe was placed at approximately 10 feet bgs within a filter pack constructed with #2/12 sand extending 3 inches above and below the sampling interval, and attached to ¼-inch diameter Teflon™ tubing extending to ground surface. One-foot of dry granular bentonite was placed on top of the sand pack to preclude the infiltration of hydrated bentonite grout into the sand pack. The borehole annular space between approximately 8.75 and 5.25 feet bgs was filled with hydrated bentonite. At boring locations PSV2, PSV9, and PSV11, drilling refusal was encountered at a depth of approximately 9.25 feet bgs, therefore the probe tip was placed at 9.0 feet bgs within a sand pack extending 3 inches above and below the sampling interval, 1-foot of dry granular bentonite was placed on top of the sand

pack, and the borehole annular space between approximately 8.25 and 5.25 feet bgs was filled with hydrated bentonite.

A shallower soil vapor probe was installed within the same borehole as the deeper probe at each boring location. The shallow ceramic probe tip was placed at approximately 5 feet bgs within a #2/12 sand pack extending 3 inches above and below the sampling interval, and attached to ¼-inch diameter Teflon™ tubing extending to ground surface. One-foot of dry granular bentonite was placed on top of the sand pack. The borehole annular space from approximately 3.75 feet bgs to ground surface was filled with hydrated bentonite. The upper end of the tubing for each probe was capped with a vapor-tight fitting and marked at the surface to identify the probe location and depth. Boring logs and soil vapor probe construction details are included in Appendix B.

Each soil vapor probe was allowed to equilibrate for a minimum of two hours after installation. Prior to purging and collecting the soil vapor samples, shut-in leak testing, as described above in Section 3.2.1, was performed.

The volume of the sampling tubing, soil vapor probes, and sand pack void space was then calculated and a minimum of three volumes were purged using a six-liter SUMMA™ canister prior to collecting each soil vapor sample.

Following completion of the shut-in leak test and purging, sample train leak testing was performed as described in Section 3.2.1 using helium gas as a tracer in combination with a shroud box.

Upon completion of soil vapor sampling activities, the probes and annular materials were removed to the total installed depth using the direct push drilling rig, each boring was filled to the ground surface with neat cement grout, and the surface was restored using concrete to match the surrounding material.

A total of 21 soil vapor samples were transported to TestAmerica Laboratories, Inc. (TestAmerica) of Pleasanton, California, a state-certified analytical laboratory, under chain-of-custody protocol for analysis for VOCs using U.S. EPA Test Method TO-15 and helium, carbon dioxide, and oxygen using ASTM Test Method D1946.

3.3 Soil Sampling and Analysis Activities

On October 19 and 21, 2016, soil borings PSV1 through PSV5 were advanced to the target depth of 10.25 feet bgs and soil sampling was conducted. Soil samples were collected for analysis at depths corresponding with the approximate depths of the soil vapor probes (i.e., approximately 5 and 10 feet bgs). Continuous soil cores were collected from each of the borings for lithologic description and soil sample analysis by driving a 4-foot long by 2.25-inch outside diameter open-tube sampler into undisturbed soil. The open-tube sampler was lined with a new 4-foot long, clear acetate sample sleeve. As described in Section 3.2.2, soil cores

were periodically field-screened for volatile organics using a PID and recorded on the soil boring logs. PES observed the borehole drilling and prepared a lithologic log for the continuously cored borings using the USCS and Munsell Color Index. Soil boring logs are presented in Appendix B.

Soil samples were collected in accordance with U.S. Environmental Protection Agency (U.S. EPA) Method 5035 using Terracore™ samplers. Soil samples sample containers were labeled to indicate project location, job number, sample location and identification number, and time and date collected. The samples were immediately placed in a thermally-insulated cooler containing ice and transported under chain-of-custody protocol to TestAmerica. A total of 10 soil samples were submitted for analysis for VOCs by U.S. EPA Test Method 8260B.

3.4 Groundwater Sampling and Analysis Activities

Grab groundwater samples was attempted at the seven locations shown on Plate 2. During groundwater sampling activities, drilling refusal was encountered at groundwater sample locations PGW1, PGW3, PGW6, and PGW7 prior to reaching saturated soil, and as a result no groundwater samples were collected at these locations.

The grab groundwater borings were continuously cored and logged consistent with the methods described above for soil sampling. Depth to saturated soil conditions (indicative of shallow groundwater that can accumulate within the boring) was observed in soil cores at depths ranging from 12.5 to 16 feet bgs. To facilitate sample collection, a 10-foot section of temporary well screen was installed at each grab groundwater sample location. Groundwater samples were collected using a new disposable polyethylene bailer lowered through the well screen. Samples were collected by slowly filling the appropriate laboratory supplied sample containers.

Groundwater sample containers were labeled to indicate project location, sample number, and time and date collected. The samples were immediately placed in a thermally-insulated cooler containing ice and transported under chain-of-custody protocol to the project laboratory.

The groundwater samples were analyzed for VOCs by U.S. EPA Test Method 8260B.

3.5 Decontamination and Waste Management

Reusable downhole drilling and sampling equipment used for soil, soil vapor, and groundwater sampling were cleaned using an Alconox™ wash and triple rinsed before use. Upon completion of sampling activities, each borehole was grouted to the ground surface with neat cement grout in accordance with ACPWA requirements, and the surface was restored using concrete dyed to match the surrounding material. Investigation-derived waste (IDW) from the drilling activities was stored on-site in secured, labeled 55-gallon steel drums pending profiling and off-site disposal.

3.6 Sampling and Analysis Program Modifications

Due to field conditions encountered during implementation of the Off-Site Work Plan, variances from the approved sampling program are summarized below:

- During drilling and installation of soil vapor probe PSV3, refusal was encountered at 7 feet bgs. Therefore, a deeper soil vapor probe was not set;
- During drilling and installation of soil vapor probes PSV2, PSV9, and PSV11, refusal was encountered at 9 feet bgs. Therefore, the soil vapor probes intended to be constructed at 10 feet bgs were set at 9 feet bgs; and
- During drilling of groundwater borings PSGW1, PSGW3, PSGW6, and PSGW7, refusal was encountered at depths above the zone of saturated soil and therefore grab groundwater samples were not collected at these locations;

The sampling and analysis program implemented during the pre-construction investigation is presented on Table 1.

4.0 RESULTS

The results of the off-site subsurface investigation activities are summarized below. Laboratory analytical reports and chain-of-custody documents for soil, vapor, and groundwater samples are presented in Appendix C. Prior to preparation of this report, the results of the off-site investigation were discussed in a telephone conference call with ACEH, PES, Anton, Griffin Capital Corporation (ownership representative for the 6601-6603 Shellmound Street property), and Erler & Kalinowski, Inc. (EKI; environmental consultant for Griffin) on October 28, 2016.

4.1 Off-Site Subsurface Physical Conditions Observations

The off-site investigation identified subsurface soil generally consistent with the findings of previous investigations conducted at the subject property. Soil boring logs are presented in Appendix B.

Sandy and gravelly clay and sandy and gravelly silt were encountered across the site to depths up to 9 feet bgs, underlain in portions of the site by dark green to black clay of medium to high plasticity. Lenses of fine-to coarse-grained gray to black sand and gravelly sand were also observed within the fine-grained material in most borings. Variable amounts of wood debris, asphaltic and tar-like materials, glass, brick, and concrete were encountered at various depths. Observations recorded during the off-site investigation, including the presence of hydrocarbon-enriched fluids observed within fill materials, are consistent with the widespread presence of artificial fill within the vicinity containing abundant quantities of debris.

Saturated soil (indicative of shallow groundwater level) was encountered at depths ranging from approximately 12.5 to 16 feet bgs.

4.2 Sub-Slab Vapor Sample Analytical Results

Analytical results for the sub-slab vapor samples are presented on Table 2. Sub-slab vapor sampling locations are shown on Plate 2, and laboratory analytical results for detected VOCs in sub-slab vapor are presented on Plates 4 and 4a (vinyl chloride only). Laboratory analytical reports and chain-of-custody documents for the sub-slab vapor samples are presented in Appendix C. Sub-slab vapor analytical results for the site were compared with California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) risk-based Environmental Screening Levels (ESLs) for sub-slab vapor for evaluation of potential vapor intrusion in a commercial/industrial land use scenario (RWQCB, 2016). The ESLs were developed by the RWQCB to be protective of human health and the environment for potentially complete exposure pathways.

VOC Detections

Primary VOCs detected in the sub-slab vapor samples above laboratory reporting limits included: tetrachloroethene (PCE); trichloroethene (TCE); 1,1,1-trichloroethane (TCA); methyl ethyl ketone (MEK); methyl isobutyl ketone (MIBK); acetone; benzene, toluene, ethylbenzene, and xylenes (BTEX compounds); carbon disulfide; chloroform; and 1,4-dioxane.

None of the VOC detections exceeded commercial/industrial land use sub-slab vapor intrusion ESLs. TCE detections were also well below the RWQCB Trigger Level for commercial/industrial sites (Table 2).

Carbon Dioxide and Oxygen

Carbon dioxide was detected in 5 out of 11 samples at levels ranging from 2.1 % volume to 10 %volume. Oxygen was detected in all 11 samples at levels ranging from 3.6 %volume to 20 %volume.

Helium

The leak detection compound helium was detected in 6 out of 11 samples at levels ranging from 0.22 % volume to 3.1 %volume.

4.3 Soil Vapor Analytical Results

Analytical results for the soil vapor samples are presented on Table 2. Soil vapor sampling locations are shown on Plate 2 and laboratory analytical results for detected VOCs in soil vapor are presented on Plates 5 and 5a (vinyl chloride only). Laboratory analytical reports and chain-of-custody documents for the soil vapor samples are presented in Appendix C. Soil

vapor analytical results for the off-site property were compared with commercial/industrial ESLs for soil gas for evaluation of potential vapor intrusion (RWQCB, 2016).

VOC Detections

Primary VOCs detected in the soil vapor samples at concentration equal to or above laboratory reporting limits included: PCE; TCE; cis-1,2-dichloroethene (cis-1,2-DCE); trans-1,2-dichloroethene (trans-1,2-DCE), vinyl chloride, MEK; MIBK; acetone; BTEX compounds; 1,2,4-trimethylbenzene (TMB); 1,3,5- trimethylbenzene (1.3.5-TMB); 4-ethyltoluene; and carbon disulfide.. As shown on Table 2, with the exception of vinyl chloride and benzene, all reported concentrations of VOCs in soil gas were below the commercial/industrial ESL.

Carbon Dioxide and Oxygen

Carbon dioxide was detected in 15 out of 21 soil vapor samples at levels ranging from 1.2 % volume to 11 % volume. Oxygen was detected in all 21 samples at levels ranging from 1.1 % volume to 10 % volume.

Helium

The leak detection compound helium was detected in 4 out of 21 soil vapor samples at levels ranging from 0.30 % volume to 1.1 % volume.

4.4 Evaluation of Leak Detection Compound in Shroud and Vapor Samples

As indicated on Table 3, the leak check compound (helium) was detected at or above laboratory reporting limits in 10 of the 32 sub-slab and soil vapor samples analyzed. Real-time field monitoring detected helium within the shroud at corresponding sample locations where helium was detected in vapor samples at concentrations ranging from approximately 0.22 % volume to 3.1 % volume. The integrity of soil vapor sample results was evaluated using the following formula to calculate an ambient air breakthrough factor, where $C_{s\text{amp}}$ is the concentration of leak check compound detected in the soil vapor sample, $C_{s\text{hroud}}$ is the concentration of leak check compound detected in the shroud sample, and f_{break} is the breakthrough factor:

$$f_{\text{break}} = 100\% * \frac{C_{s\text{amp}}}{C_{s\text{hroud}}}$$

The calculated breakthrough factor was compared with the 5% breakthrough acceptable limit⁵ for ambient air dilution. One sub-slab vapor sample (SSV6) exhibited a breakthrough factor of

⁵ In accordance with the California Environmental Protection Agency/Department of Toxic Substances Control *Advisory – Active Soil Gas Investigations*, July 2015 – Appendix C: Quantitative Leak Testing Using a Tracer Gas.

11.3%, indicating soil vapor analytical results for this samples may biased slightly low. As such, the result of this sample is deemed material and valid for site characterization purposes. The leak check compound analytical results do not indicate concerns with respect to sample train leaks or atmospheric dilution for the other 31 vapor samples collected during the investigation activities.

4.5 Soil Analytical Results

Laboratory analytical results for detected VOCs in soil samples are presented on Table 4. As a conservative measure soil analytical results for the site were compared with Tier 1 ESLs for shallow soil (less than 3 meters bgs). Tier 1 ESLs were designed to be protective of properties with unrestricted soil, soil gas, and groundwater use (RWQCB, 2016).

As indicated in Table 4, all VOC detections in soil were below Tier 1 ESLs.

4.6 Groundwater Analytical Results

Laboratory analytical results for grab groundwater samples are presented on Table 5. Laboratory analytical reports and chain-of-custody forms are presented in Appendix C. Groundwater laboratory analytical results are summarized on Plates 3 and 3a (vinyl chloride only). While groundwater is considered a drinking water source (in accordance with the Basin Plan [RWQCB, 2010]), groundwater in this area is prohibited for extraction or use by City of Emeryville Ordinance No. 07-006.

Chlorinated VOCs, including PCE, TCE, and vinyl chloride, were not detected at or above the laboratory reporting limit in any of the groundwater samples. Non-chlorinated VOC detections included: BTEX compounds, n-butylbenzene, sec-butylbenzene, n-propylbenzene, isopropylbenzene, 1,2,4-TMB, and 4-isopropyltoluene. All VOC detections were well below ESLs for vapor intrusion human health risk levels at a commercial/industrial site.

Benzene was detected at a concentration of 2.4 and 3.2 microgram per liter ($\mu\text{g/L}$) in samples PGW2 and PGW4, respectively, slightly above the Maximum Contaminant Level (MCL) of $1.0 \mu\text{g/L}$ for benzene in drinking water. Naphthalene was detected in one of the three samples (PGW2) at a concentration of $12 \mu\text{g/L}$, above the MCL of $0.17 \mu\text{g/L}$. However, as stated above groundwater in this area is prohibited for extraction or use.

4.7 QA/QC Evaluation of Analytical Results

Data quality for the soil, soil vapor and sub-slab samples, and groundwater samples was assessed by implementing appropriate quality assurance/quality control (QA/QC) procedures and through review of analytical data, including evaluation of laboratory QA/QC data. The following is a summary of the data quality review:

- All samples were analyzed within the required holding times for the requested analyses;
- The method blanks did not contain VOCs at or above the laboratory reporting limits; and
- The results of the laboratory control and laboratory control duplicate samples were within acceptable recovery ranges.

5.0 SUMMARY AND CONCLUSIONS

5.1 Summary and Discussion of Findings

A summary of the findings of the off-site subsurface investigation is presented below.

On October 17 through 21, PES conducted an off-site subsurface investigation at the 6601-6603 Shellmound Street property. Sampling activities were conducted using direct push drilling technology at 12 locations (11 indoor and one exterior sample location) at the off-site property to evaluate the subsurface for the presence of VOCs. The primary objective of the off-site investigation included delineation of the extent of VOC contamination, primarily vinyl chloride, potentially affecting soil, soil gas, and groundwater at the 6601-6603 Shellmound Street property associated with the elevated VOC concentrations detected near the shared property boundary. The off-site investigation was conducted in accordance with PES' *Work Plan for Off-Site Subsurface Investigation* dated August 29, 2016 and conditionally approved in a letter from ACEH dated September 4, 2015.

Findings based on the off-site subsurface investigation of soil, soil vapor, and groundwater indicate:

Soil

- Chlorinated VOCs were not detected in any of the 10 soil samples collected beneath the off-site building (PSV1 through PSV5) at 5 and 10 feet bgs. Non-chlorinated VOCs were detected at concentrations below Tier 1 ESLs. The results suggest that an off-site source of chlorinated VOCs in soil is not present.

Sub-Slab/Soil Vapor

- Vinyl chloride was not detected in any of the 11 sub-slab vapor samples;
- All other VOC detections in sub-slab vapor samples were below sub-slab ESLs for potential vapor intrusion concerns in a commercial setting;
- Oxygen was present at generally high levels in all sub-slab vapor samples;

- As indicated in Plate 5a, the lateral extent of vinyl chloride concentrations (the primary VOC of concern and identified at elevated concentrations in soil vapor at the shared property line between the subject site and off-site property) at 5 feet bgs have been generally delineated in soil vapor to below concentrations less than the vapor intrusion ESL for commercial settings to the west (by soil vapor sample locations PSV1 and PSV6 [at 5 feet bgs]), to the east (vapor sample locations PSV5 and PSV11), and to the southwest by PSV8 and SVP7. However, the detected vinyl chloride soil vapor concentration at 5 feet bgs at location PSV10 (south-central portion of the building) was above the vapor intrusion ESL. Additionally, concentrations of vinyl chloride detected in samples from soil vapor sample locations PSV1 and PSV6 at 10 feet bgs exceeded the vapor intrusion ESL for commercial settings. The results suggest that an off-site source of vinyl chloride in soil gas is not present;
- VOCs (including vinyl chloride) in soil vapor are generally observed to attenuate with shallowing of depth (i.e., VOC concentrations generally decrease with increasing vertical depth between vapor samples collected at 0.5, 5, and 10 feet bgs). Oxygen concentrations generally increased with shallowing of depth;
- Benzene was identified in soil vapor at multiple locations and depths across the site. Benzene was not detected above the ESL for vapor intrusion concerns in sub-slab vapor or shallow soil vapor (5 feet bgs) samples, and taken with the relatively elevated oxygen levels (Table 2) detected in sub-slab and 5-foot depth vapor samples, is indicative of the presence of an active bioattenuation zone beneath the building; and
- Detections of low levels of other non-chlorinated VOCs in soil vapor are generally consistent with the documented presence of petroleum hydrocarbons or other constituents associated with historical fill material; however, as noted above, the general absence of VOCs in sub-slab vapor samples are indicative of the presence of an active bioattenuation zone beneath the building.

Groundwater

- Chlorinated VOCs of concern (PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride) were not detected at or above the laboratory reporting limit in any of the groundwater samples;
- All VOCs detected in groundwater were well below vapor intrusion ESLs for commercial/industrial land use, and indicate that direct VOC impacts to groundwater are minimal, and limited in lateral extent;
- The only VOCs detected in groundwater at concentrations above the drinking water MCL were benzene and naphthalene. However, drinking water is provided by the East Bay Municipal Utility District (EBMUD) and extraction and use of shallow groundwater for water supply in the City of Emeryville is prohibited by City Ordinance. Therefore, the presence of VOCs in groundwater beneath the site does not

appear to pose a significant threat to human health or the environment at the off-site property.

5.2 Conclusions and Recommendations

Based on the results of the off-site subsurface investigation activities described herein, subsurface conditions with respect to the magnitude and horizontal and vertical extent of VOCs at the western portion of the off-site property have been substantially characterized. With the exception of chlorinated VOCs (in particular, vinyl chloride), the laboratory analytical detections of VOCs and lithologic observations are generally consistent with the known presence of fill material beneath the site.

The results of the investigation materially address the stated investigation objectives, including, evaluation and delineation of the presence of VOCs, particularly vinyl chloride, at the off-site property, and as presented herein are adequate to document subsurface soil, groundwater, and vapor conditions prior to implementation of remedial measures (including soil vapor extraction) at the subject property. The results are consistent with prior investigations conducted at the subject property (PES, 2016b), which suggest that the source of vinyl chloride detections do not appear to originate on the 6601-6603 Shellmound Street property, but appear to be associated with undocumented historical release(s) from previous activities at the 6701-6707 Shellmound Street site.

Based on the results of the investigation PES recommends the following;

- As noted above, there are several locations where concentrations of vinyl chloride in soil gas (one location at 5 feet bgs [(PSV10), and three locations at 10 feet bgs [PSV1, PSV6, and PSV10]) exceed the vapor intrusion ESL for a commercial setting. As such, additional investigation is recommended to laterally define concentrations of vinyl chloride-affected soil vapor in these areas. Proposed additional off-site soil vapor sample locations are shown on Plate 6. Additional soil vapor samples will be collected consistent with the methods and procedures presented in the approved Off-Site Work Plan (PES, 2016d), and vapor samples will be analyzed for vinyl chloride by U.S. EPA Test Method TO-15;
- As requested by ACEH in the October 28, 2016 conference call, to laterally define the extent of vinyl chloride-affected soil vapor in the southwestern corner of the subject property (and near the shared property boundary between the subject property and the 6601-6603 Shellmound Street property), an additional soil vapor sample will be collected from approximately 10 feet bgs approximately 30 feet west of on-site sample location SV61 and analyzed for vinyl chloride by U.S. EPA Test Method TO-15. The proposed soil vapor sample location is shown on Plate 6; and
- As noted in Section 2.3, SVE as an IRM commenced at the subject property on November 8, 2016. As a means for assessing vinyl chloride concentration trends in areas to the south of the SVE system, PES recommends installing four permanent

multi-depth soil vapor monitoring probes (i.e., vapor probe inlets at 5 and 10 feet bgs) inside the 6601-6603 Shellmound Street building, and periodically collecting vapor samples to be analyzed for vinyl chloride by U.S. EPA Test Method TO-15, as well as documenting observations of measurable vacuum in the subsurface. Measurements of vacuum response and vapor samples may be collected, if/as warranted, approximately six months after SVE system start-up (e.g., May 2017). The proposed vapor monitoring probes locations are shown on Plate 6.

6.0 REFERENCES

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- PES, 2016b. *Pre-Construction Subsurface Investigation Report, 6701, 6705, and 6707 Shellmound Street, Emeryville, California, Fuel Leak Case No. RO0000548, GeoTracker Global ID T0600100894.* April 8.
- PES, 2016c. *Work Plan for Soil Vapor Extraction, 6701, 6705, and 6707 Shellmound Street, Emeryville, California, Fuel Leak Case No. RO0000548, GeoTracker Global ID T0600100894.* April 8.
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TABLES

Table 1
Sampling and Analysis Program
Revised Work Plan for Off-Site Subsurface Investigation
6701, 6705, and 6707 Shellmound Street, Emeryville, California

| Sample Location ID | Sample Rationale/Feature of Interest | Proposed Sample Depth (feet bgs) | Analysis Plan | | | Comments |
|--------------------|--|----------------------------------|---------------|--|----------------------------------|---|
| | | | VOCs | Oxygen and Carbon Dioxide ¹ | Tracer Gas Compound ¹ | |
| Soil Gas | | | | | | |
| PSV1 | Lateral definition of VOCs in soil vapor | 0.5, 5, and 10 | X | X | X | |
| PSV2 | Near vicinity of VOC in soil vapor | 0.5, 5, and 10 | X | X | X | Deeper soil vapor sample collected at 9 feet bgs due to drilling refusal |
| PSV3 | Near vicinity of VOC in soil vapor | 0.5, 5, and 10 | X | X | X | Due to drilling refusal (8 feet bgs) no deeper soil vapor sample collected |
| PSV4 | Near vicinity of VOC in soil vapor | 0.5, 5, and 10 | X | X | X | |
| PSV5 | Near vicinity of VOC in soil vapor | 0.5, 5, and 10 | X | X | X | |
| PSV6 | Lateral definition of VOCs in soil vapor | 0.5, 5, and 10 | X | X | X | |
| PSV7 | Lateral definition of VOCs in soil vapor | 0.5, 5, and 10 | X | X | X | |
| PSV8 | Lateral definition of VOCs in soil vapor | 0.5, 5, and 10 | X | X | X | |
| PSV9 | Lateral definition of VOCs in soil vapor | 0.5, 5, and 10 | X | X | X | Deeper soil vapor sample collected at 9 feet bgs due to drilling refusal |
| PSV10 | Lateral definition of VOCs in soil vapor | 0.5, 5, and 10 | X | X | X | |
| PSV11 | Lateral definition of VOCs in soil vapor | 0.5, 5, and 10 | X | X | X | Deeper soil vapor sample collected at 9 feet bgs due to drilling refusal |
| Soil | | | | | | |
| PSV1 | Assess conditions in vicinity of detected soil VOCs | 5 and 10 | X | | | |
| PSV2 | Assess conditions in vicinity of detected soil VOCs | 5 and 10 | X | | | |
| PSV3 | Assess conditions in vicinity of detected soil VOCs | 5 and 10 | X | | | Deeper soil sample collected at 8 feet bgs due to drilling refusal |
| PSV4 | Assess conditions in vicinity of detected soil VOCs | 5 and 10 | X | | | |
| PSV5 | Assess conditions in vicinity of detected soil VOCs | 5 and 10 | X | | | |
| Groundwater | | | | | | |
| PGW1 | Assess off-site groundwater downgradient of groundwater VOC detections | | X | | | Due to drilling refusal within vadose zone, no groundwater sample collected |
| PGW2 | Assess off-site groundwater downgradient of groundwater VOC detections | | X | | | |
| PGW3 | Assess off-site groundwater downgradient of groundwater VOC detections | | X | | | Due to drilling refusal in vadose zone, no groundwater sample collected |
| PGW4 | Assess off-site groundwater downgradient of groundwater VOC detections | | X | | | |
| PGW5 | Assess off-site groundwater downgradient of groundwater VOC detections | | X | | | |
| PGW6 | Assess off-site groundwater downgradient of groundwater VOC detections | | X | | | Due to drilling refusal in vadose zone, no groundwater sample collected |
| PGW7 | Assess off-site groundwater downgradient of groundwater VOC detections | | X | | | Due to drilling refusal in vadose zone, no groundwater sample collected |

Notes:

bgs = Below ground surface.

VOCs = Volatile organic compounds; laboratory analysis by USEPA Methods TO-15 (Vapor) and 8260B (soil and groundwater).

X = Scheduled for analysis.

¹ = Laboratory analysis by ASTM 1946D.

Table 2
Summary of Soil Vapor Analytical Results
Off-Site Subsurface Investigation Report
6601-6603 Shellmound Street, Emeryville, California

| Sample Location | Sample ID | Sample Depth (feet bgs) | Date Sampled | PCE (µg/m³) | TCE (µg/m³) | cis-1,2-DCE (µg/m³) | trans-1,2-DCE (µg/m³) | Vinyl chloride (µg/m³) | 1,1,1-TCA (µg/m³) | MEK (µg/m³) | MIBK (µg/m³) | Acetone (µg/m³) | Benzene (µg/m³) | Toluene (µg/m³) | Ethylbenzene (µg/m³) | m,p-Xylene (µg/m³) | o-Xylene (µg/m³) | 1,2,4-TMB (µg/m³) | 1,3,5-TMB (µg/m³) | 4-Ethyltoluene (µg/m³) | Carbon disulfide (µg/m³) | Chloroform (µg/m³) | Other VOCs (µg/m³) | Carbon Dioxide (% v/v) | Oxygen (% v/v) | Helium (% v/v) | |
|--|-----------|-------------------------|--------------|-------------|-------------|---------------------|-----------------------|------------------------|-------------------|-------------------|------------------|--------------------|-----------------|------------------|----------------------|--------------------|------------------|-------------------|-------------------|------------------------|--------------------------|--------------------|---|------------------------|----------------|----------------|-----------|
| PSV1/SSV1 | SSV1 | 0.5 | 10/18/2016 | < 12 | 23 | < 7 | < 7 | < 4.5 | < 7.3 | < 10 | < 7.3 | 220 | < 5.7 | < 6.7 | < 7.7 | < 15 | < 7.7 | < 17 | < 8.7 | < 8.7 | < 11 | < 6.5 | ND | 10 | 4.8 | < 0.18 | |
| | PSV1-5 | 5.0 | 10/21/2016 | 28 | 23 | 130 | 13 | 82 | < 11 | 220 | 61 | 380 | 120 | 410 | 39 | 150 | 40 | < 26 | < 13 | < 13 | 38 | < 9.8 | ND | 11 | 2.4 | 0.30 | |
| | PSV1-10 | 10.0 | 10/21/2016 | < 69 | 63 | 170 | 240 | 210 | < 42 | 78 | < 42 | < 300 | 510 | 1,100 | 860 | 2,500 | 920 | < 100 | < 50 | < 50 | 140 | < 37 | ND | < 1 | 1.9 | < 0.2 | |
| PSV2/SSV2 | SSV2 | 0.5 | 10/18/2016 | 400 | 18 | < 7 | < 7 | < 4.5 | 40 | < 10 | < 7.3 | 250 | 7.3 | 7.1 | < 7.7 | < 15 | < 7.7 | < 17 | < 8.7 | < 8.7 | < 11 | < 6.5 | ND | < 0.97 | 19 | 0.27 | |
| | PSV2-5 | 5.0 | 10/21/2016 | < 2.7 | 3.7 | 75 | 15 | 300 | < 1.6 | 140 | < 1.6 | 330 | 37 | 270 | 34 | 130 | 38 | 18 | 7.2 | 7.1 | 23 | < 1.5 | 4.8 (1,1-DCA), 4.5 (CB), 2.5 (1,3-DCB) | 5.7 | 8.7 | < 0.19 | |
| | PSV2-9 | 9.0 | 10/21/2016 | < 18 | < 14 | 30 | 17 | 190 | < 11 | 86 | 92 | 240 | 110 | 680 | 73 | 270 | 83 | 35 | 15 | 16 | 50 | < 9.8 | ND | < 1.1 | 1.1 | < 0.21 | |
| PSV3/SSV3 | SSV3 | 0.5 | 10/18/2016 | < 4.1 | < 3.2 | < 2.4 | < 2.4 | < 1.5 | < 2.5 | 8.3 | < 2.5 | 92 | 18 | 5.1 | < 2.6 | 6.4 | 2.6 | < 5.9 | < 3 | < 3 | < 3.8 | < 2.2 | ND | < 0.98 | 13 | 0.52 | |
| | PSV3-5 | 5.0 | 10/21/2016 | < 130 | < 100 | 150 | < 74 | 3,700 | < 76 | 170 | 85 | < 550 | 170 | 610 | 100 | 400 | 110 | < 180 | < 92 | < 92 | < 120 | < 68 | ND | 6.4 | 2.2 | < 0.6 | |
| PSV4/SSV4 | SSV4 | 0.5 | 10/18/2016 | < 34 | < 27 | < 20 | < 20 | < 13 | < 21 | < 30 | < 21 | 750 | < 16 | < 19 | < 22 | < 44 | < 22 | < 50 | < 25 | < 25 | < 32 | 33 | ND | < 0.99 | 13 | 0.37 | |
| | PSV4-5 | 5.0 | 10/21/2016 | < 17 | < 13 | < 9.9 | < 9.9 | < 6.4 | < 10 | 240 | 68 | 400 | 110 | 740 | 86 | 340 | 95 | 39 | 17 | 23 | 73 | < 9.2 | ND | 4.7 | 7.4 | < 0.2 | |
| | PSV4-10 | 10.0 | 10/21/2016 | < 13 | < 9.9 | 8.8 | < 7.3 | < 4.7 | < 7.6 | 100 | 72 | 150 | 130 | 370 | 78 | 270 | 93 | 52 | 24 | 19 | 370 | < 6.8 | ND | 3.0 | 1.6 | < 0.19 | |
| PSV5/SSV5 | SSV5 | 0.5 | 10/18/2016 | < 5.6 | 17 | < 3.3 | < 3.3 | < 2.1 | < 3.4 | < 4.8 | < 3.4 | 160 | 3.6 | 4.4 | < 3.6 | 7.3 | < 3.6 | < 8.1 | < 4 | < 4 | 25 | < 3 | ND | 2.1 | 15 | 0.41 | |
| | PSV5-5 | 5.0 | 10/19/2016 | < 54 | < 43 | < 32 | < 32 | < 20 | < 33 | 310 | < 33 | 490 | 100 | 180 | 35 | 150 | 36 | < 79 | < 39 | < 39 | 95 | < 29 | ND | 3.6 | 2.4 | < 0.2 | |
| | PSV5-10 | 10.0 | 10/19/2016 | < 67 | < 53 | < 39 | < 39 | < 25 | < 40 | 180 | < 40 | 310 | 180 | 260 | 54 | 190 | 69 | < 97 | < 48 | < 48 | 270 | < 36 | ND | < 0.99 | 3.9 | < 0.2 | |
| PSV6/SSV6 | SSV6 | 0.5 | 10/18/2016 | < 5.4 | 200 | < 3.2 | < 3.2 | < 2 | < 3.3 | 13 | < 3.3 | 120 | 3.3 | 18 | 3.6 | 12 | 4.0 | < 7.8 | < 3.9 | < 3.9 | 270 | 18 | ND | 2.9 | 18 | 3.1 | |
| | PSV6-5 | 5.0 | 10/20/2016 | < 11 | 36 | 100 | 11 | 150 | < 6.9 | 250 | 88 | 470 | 180 | 150 | 25 | 98 | 26 | 20 | 9.6 | 20 | < 6.2 | ND | 6.8 | 2.6 | < 0.16 | | |
| | PSV6-10 | 10.0 | 10/20/2016 | < 14 | < 11 | < 8.3 | < 8.3 | 460 | < 8.6 | 92 | < 8.6 | 160 | 190 | 69 | 30 | 97 | 38 | 29 | 20 | 13 | 62 | < 7.7 | 36 (CE) | < 0.78 | 8.1 | 1.1 | |
| PSV7/SSV7 | SSV7 | 0.5 | 10/18/2016 | < 130 | < 100 | < 75 | < 75 | < 48 | < 77 | < 110 | 140 | 2,800 | < 60 | < 71 | < 82 | < 160 | < 82 | < 190 | < 93 | < 93 | < 120 | < 69 | ND | < 0.95 | 3.6 | < 0.19 | |
| | PSV7-5 | 5.0 | 10/20/2016 | < 8.9 | 24 | 37 | 15 | 12 | < 5.4 | 100 | < 5.4 | 210 | 290 | 67 | 15 | 58 | 18 | 13 | < 6.4 | 6.4 | 9.3 | < 4.8 | ND | 7.1 | 9.8 | 0.33 | |
| | PSV7-10 | 10.0 | 10/20/2016 | < 4.8 | < 3.8 | 3.9 | < 2.8 | < 1.8 | < 2.9 | 120 | < 2.9 | 150 | 47 | 95 | 21 | 61 | 26 | 28 | 11 | 8.0 | 13 | < 2.6 | ND | 4.1 | 6.6 | < 0.15 | |
| PSV8/SSV8 | SSV8 | 0.5 | 10/18/2016 | < 14 | < 11 | < 8.1 | < 8.1 | < 5.2 | < 8.4 | 13 | < 8.4 | 480 | 15 | 11 | < 8.9 | < 18 | < 8.9 | < 20 | < 10 | < 10 | < 13 | < 7.5 | 27 (1,4-Dioxane) | 3.8 | 7.9 | < 0.21 | |
| | PSV8-5 | 5.0 | 10/20/2016 | < 15 | < 12 | 13 | < 8.7 | 30 | < 9 | 250 | 68 | 370 | 71 | 290 | 58 | 210 | 61 | 45 | 22 | 20 | 33 | < 8 | ND | 1.2 | 8.4 | < 0.17 | |
| | PSV8-10 | 10.0 | 10/20/2016 | < 7.6 | 11 | 30 | 6.3 | 51 | < 4.6 | 110 | < 4.6 | 190 | 150 | 170 | 63 | 120 | 38 | 27 | 13 | 11 | 49 | < 4.1 | 12 (Styrene) | 2.8 | 5.5 | < 0.2 | |
| PSV9/SSV9 | SSV9 | 0.5 | 10/18/2016 | < 7.1 | 12 | < 4.1 | < 4.1 | < 2.7 | < 4.3 | < 6.2 | < 4.3 | 380 | 9.6 | 6.7 | < 4.5 | 13 | 4.8 | < 10 | < 5.1 | < 5.1 | 11 | 16 | ND | < 1 | 13 | < 0.2 | |
| | PSV9-5 | 5.0 | 10/20/2016 | < 17 | 95 | 37 | 58 | 120 | < 10 | 320 | 68 | 370 | 51 | 160 | 36 | 140 | 40 | 34 | 14 | < 12 | < 15 | < 9.1 | ND | 11 | 1.9 | < 0.19 | |
| | PSV9-9 | 9.0 | 10/20/2016 | 48 | 110 | 98 | 110 | 210 | < 4.9 | 130 | 48 | 170 | 53 | 150 | 23 | 69 | 20 | < 12 | < 5.9 | < 5.9 | 190 | < 4.4 | 17 (1,1-DCE) 9.3 (CB) | 4.2 | 1.7 | < 0.2 | |
| PSV10/SSV10 | SSV10 | 0.5 | 10/18/2016 | < 5.8 | < 4.6 | < 3.4 | < 3.4 | < 2.2 | < 3.5 | < 5 | < 3.5 | 130 | 4.6 | 3.6 | < 3.7 | < 7.4 | < 3.7 | < 8.4 | < 4.2 | < 4.2 | < 5.3 | 6.5 | < 1.1 | 20 | 0.22 | | |
| | PSV10-5 | 5.0 | 10/20/2016 | < 17 | 79 | 90 | 69 | 200 | < 10 | 270 | 91 | 380 | 92 | 210 | 42 | 150 | 47 | 40 | 19 | < 12 | < 16 | < 9.2 | ND | 8.4 | 1.5 | < 0.16 | |
| | PSV10-10 | 10.0 | 10/20/2016 | < 52 | 120 | 950 | 390 | 1,500 | < 32 | 110 | < 32 | < 230 | 1,700 | 270 | 610 | 580 | 390 | 450 | 280 | 180 | 100 | < 28 | ND | < 0.97 | 1.3 | < 0.19 | |
| PSV11/SSV11 | SSV11 | 0.5 | 10/18/2016 | < 17 | 74 | < 9.8 | < 9.8 | < 6.3 | < 10 | < 15 | < 10 | 280 | 9.0 | < 9.3 | < 11 | < 22 | < 11 | < 24 | < 12 | < 12 | < 15 | < 9.1 | ND | 3.3 | 14 | < 0.2 | |
| | PSV11-5 | 5.0 | 10/21/2016 | < 21 | 23 | 32 | < 12 | 15 | < 12 | 130 | < 12 | 790 | 340 | 260 | 38 | 240 | 48 | < 30 | < 15 | < 15 | 33 | < 11 | ND | 2.3 | 1.7 | < 0.19 | |
| | PSV11-9 | 9.0 | 10/21/2016 | < 11 | 17 | 40 | 10 | 43 | < 6.7 | 72 | < 6.7 | 230 | 130 | 210 | 44 | 270 | 57 | 46 | 27 | 15 | 82 | < 6 | 17 (NAPH) | < 0.98 | 10 | 0.73 | |
| RWQCB Commercial/Industrial Land Use VI ESL (Subslab / Soil Gas) ¹ | | | | 2100 | 3000 | 35,000 | 350,000 | 160 | 4,400,000 | 22,000,000 | 1,600,000 | 130,000,000 | 420 | 1,300,000 | 4900 | 440,000 | 440,000 | NE | NE | NE | NE | 530 | NE | NE | NE | NE | |
| RWQCB TCE Trigger Level, Commercial/Industrial Subslab/Soil Gas ² | | | | -- | 8000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Notes:

Detections are shown in bold. Results equal to or exceeding applicable regulatory screening levels are shaded. Only detected analytes are summarized on table. Refer to Appendix C for laboratory report to access entire list of compounds analyzed.

- PCE = Tetrachloroethene.
- TCE = Trichloroethene.
- DCE = Dichloroethene.
- TCA = Trichloroethane.
- PCA = Tetrachloroethane.
- MEK = Methyl Ethyl Ketone.
- MIBK = Methyl Isobutyl Ketone.
- TMB = Trimethylbenzene.
- CB = Chlorobenzene.
- CE = Chloroethane.
- DCB = Dichlorobenzene.
- NAPH = Naphthalene.
- VOCs = Volatile organic compounds.
- bgs = Below ground surface.
- µg/m³ = Micrograms per cubic meter.
- % v/v = Percent by volume.

< 2.9 = Not detected at or above the indicated laboratory method reporting limit.
 ND = Not detected at or above the respective laboratory method reporting limits.
 NE = Not established.
 -- = Not applicable/not analyzed.

1. ESL = February 2016 Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) Environmental Screening Levels (ESLs), Table SG-1 Subslab/Soil Gas Vapor Intrusion: Human Health Risk Levels. Commercial/Industrial Final VI Screening Level.
 2. RWQCB, 2016. User's Guide: Derivation and Application of Environmental Screening Levels (ESLs), TCE ESLs, Action Levels for Indoor Air (Response), and Groundwater and Soil Gas Trigger Levels (Sample Indoor Air), Table 4-4. February.

Table 3
Summary of Soil Vapor Leak Check Results
Off-Site Subsurface Investigation Report
6601-6603 Shellmound Street, Emeryville, California

| Sample Location | Sample ID | Sample Depth (feet bgs) | Date Sampled | Helium Detected in Sample (% v/v) | Helium Detected in Shroud (% v/v) | Breakthrough Factor (%) |
|---|-----------|-------------------------|--------------|-----------------------------------|-----------------------------------|-------------------------|
| PSV1/SSV1 | SSV1 | 0.5 | 10/18/2016 | 0.18 | 26.7 | 0.7 |
| | PSV1-5 | 5 | 10/21/2016 | 0.3 | 24.7 | 1.2 |
| | PSV1-10 | 10 | 10/21/2016 | 0.2 | 24.7 | 0.8 |
| PSV2/SSV2 | SSV2 | 0.5 | 10/18/2016 | 0.27 | 28.9 | 0.9 |
| | PSV2-5 | 5 | 10/21/2016 | 0.19 | 32.8 | 0.6 |
| | PSV2-9 | 9 | 10/21/2016 | 0.21 | 32.8 | 0.6 |
| PSV2/SSV3 | SSV3 | 0.5 | 10/18/2016 | 0.52 | 29.7 | 1.8 |
| | PSV3-5 | 5 | 10/21/2016 | 0.6 | 34.9 | 1.7 |
| PSV4/SSV4 | SSV4 | 0.5 | 10/18/2016 | 0.37 | 29.3 | 1.3 |
| | PSV4-5 | 5 | 10/21/2016 | 0.2 | 36.2 | 0.6 |
| | PSV4-10 | 10 | 10/21/2016 | 0.19 | 36.2 | 0.5 |
| PSV5/SSV5 | SSV5 | 0.5 | 10/18/2016 | 0.41 | 29.1 | 1.4 |
| | PSV5-5 | 5 | 10/19/2016 | 0.2 | 32.6 | 0.6 |
| | PSV5-10 | 10 | 10/19/2016 | 0.2 | 36.8 | 0.5 |
| PSV6/SSV6 | SSV6 | 0.5 | 10/18/2016 | 3.1 | 27.5 | 11.3 |
| | PSV6-5 | 5 | 10/20/2016 | 0.16 | 28.2 | 0.6 |
| | PSV6-10 | 10 | 10/20/2016 | 1.1 | 28.2 | 3.9 |
| PSV7/SSV7 | SSV7 | 0.5 | 10/18/2016 | 0.19 | 25.9 | 0.7 |
| | PSV7-5 | 5 | 10/20/2016 | 0.33 | 25.4 | 1.3 |
| | PSV7-10 | 10 | 10/20/2016 | 0.15 | 25.4 | 0.6 |
| PSV8/SSV8 | SSV8 | 0.5 | 10/18/2016 | 0.21 | 36.2 | 0.6 |
| | PSV8-5 | 5 | 10/20/2016 | 0.17 | 28.8 | 0.6 |
| | PSV8-10 | 10 | 10/20/2016 | 0.2 | 28.8 | 0.7 |
| PSV9/SSV9 | SSV9 | 0.5 | 10/18/2016 | 0.2 | 32.7 | 0.6 |
| | PSV9-5 | 5 | 10/20/2016 | 0.19 | 29.7 | 0.6 |
| | PSV9-9 | 9 | 10/20/2016 | 0.2 | 29.7 | 0.7 |
| PSV10/SSV10 | SSV10 | 0.5 | 10/18/2016 | 0.22 | 29.7 | 0.7 |
| | PSV10-5 | 5 | 10/20/2016 | 0.16 | 32.8 | 0.5 |
| | PSV10-10 | 10 | 10/20/2016 | 0.19 | 32.8 | 0.6 |
| PSV11/SSV11 | SSV11 | 0.5 | 10/18/2016 | 0.2 | 34.8 | 0.6 |
| | PSV11-5 | 5 | 10/21/2016 | 0.19 | 32.6 | 0.6 |
| | PSV11-9 | 9 | 10/21/2016 | 0.73 | 32.6 | 2.2 |
| Acceptable Ambient Air Breakthrough Limit ¹ | | | | -- | -- | 5% |

Notes:

Detections are shown in bold. Results equal to or exceeding applicable RPD limits are shaded.

bgs = Below ground surface.

% v/v = Percent by volume.

-- = Not applicable.

1. In accordance with California Environmental Protection Agency/Department of Toxic Substances Control Advisory - Active Soil Gas Investigations, July 2015 - Appendix C: Quantitative Leak Testing Using a Tracer Gas.

Table 4
Summary of Soil Analytical Results - Detected VOCs
Off-Site Subsurface Investigation Report
6601-6603 Shellmound Street, Emeryville, California

| Sample Location | Sample ID | Sample Depth (feet bgs) | Date Sampled | Acetone (µg/Kg) | 1,2,4-TMB (µg/Kg) | 1,3,5-TMB (µg/Kg) | Ethylbenzene (µg/Kg) | Naphthalene (µg/Kg) | sec-Butylbenzene (µg/Kg) | tert-Butylbenzene (µg/Kg) | Toluene (µg/Kg) | Total Xylenes (µg/Kg) |
|--|-----------------|-------------------------|--------------|-----------------|-------------------|-------------------|----------------------|---------------------|--------------------------|---------------------------|-----------------|-----------------------|
| PSV1 | PSV1-5-5.5 | 5-5.5 | 10/21/2016 | 48 | < 4.1 | < 4.1 | < 4.1 | < 8.2 | < 4.1 | < 4.1 | < 4.1 | < 8.2 |
| | PSV1-9.75-10.25 | 9.75-10.25 | 10/21/2016 | 41 | 16 * | 6.8 * | 12 | 9.2 * | 6.6 * | 4.2 * | 11 | 67 |
| PSV2 | PSV2-5-5.5 | 5-5.5 | 10/21/2016 | < 36 | < 3.6 | < 3.6 | < 3.6 | < 7.2 | < 3.6 | < 3.6 | < 3.6 | < 7.2 |
| | PSV2-9.75-10.25 | 9.75-10.25 | 10/21/2016 | < 34 | < 3.4 | < 3.4 | < 3.4 | < 6.9 | < 3.4 | < 3.4 | < 3.4 | < 6.9 |
| PSV3 | PSV3-5-5.5 | 5-5.5 | 10/21/2016 | < 32 | < 3.2 | < 3.2 | < 3.2 | < 6.4 | < 3.2 | < 3.2 | < 3.2 | < 6.4 |
| | PSV3-7.5-8 | 7.5-8 | 10/21/2016 | 63 | < 3.5 | < 3.5 | < 3.5 | < 7.1 | < 3.5 | < 3.5 | < 3.5 | < 7.1 |
| PSV4 | PSV4-5-5.5 | 5-5.5 | 10/21/2016 | < 37 | < 3.7 | < 3.7 | < 3.7 | < 7.4 | < 3.7 | < 3.7 | < 3.7 | < 7.4 |
| | PSV4-9.75-10.25 | 9.75-10.25 | 10/21/2016 | < 38 | < 3.8 | < 3.8 | < 3.8 | < 7.5 | < 3.8 | < 3.8 | < 3.8 | < 7.5 |
| PSV5 | PSV5-5-5.5 | 5-5.5 | 10/19/2016 | < 35 | < 3.5 | < 3.5 | < 3.5 | < 7 | < 3.5 | < 3.5 | < 3.5 | < 7 |
| | PSV5-9.75-10.25 | 9.75-10.25 | 10/19/2016 | 53 | < 3.6 | < 3.6 | < 3.6 | < 7.2 | < 3.6 | < 3.6 | < 3.6 | < 7.2 |
| Tier 1 Commercial/Industrial Land Use ESL (Shallow Soil) ¹ | | | | 500 | NE | NE | 1,400 | 33 | NE | NE | 2,900 | 2,300 |

Notes:

Detections are shown in bold. Results equal to or exceeding applicable regulatory screening levels are shaded.

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

VOCs = Volatile organic compounds.

TMB = Trimethylbenzene.

bgs = Below ground surface.

µg/kg = Micrograms per kilogram.

< 3.5 = Not detected at or above the indicated laboratory method reporting limit.

* - Internal Standard (ISTD) response for the sample was outside control limits. The sample was re-analyzed with concurring results and the second set of data has been reported.

Table 5
Summary of Groundwater Analytical Results - Detected VOCs
Off-Site Subsurface Investigation Report
6601-6603 Shellmound Street, Emeryville, California

| Sample Location | Sample ID | Date Sampled | Benzene (µg/L) | Ethylbenzene (µg/L) | n-Butylbenzene (µg/L) | sec-Butylbenzene (µg/L) | N-Propylbenzene (µg/L) | Isopropylbenzene (µg/L) | Total Xylenes (µg/L) | Naphthalene (µg/L) | 1,2,4-TMB (µg/L) | 1,3,5-TMB (µg/L) | Toluene (µg/L) | 4-Isopropyltoluene (µg/L) |
|---|-----------|--------------|----------------|---------------------|-----------------------|-------------------------|------------------------|-------------------------|----------------------|--------------------|------------------|------------------|----------------|---------------------------|
| PGW2 | PGW2-GW | 10/20/2016 | 2.4 | 4.4 | 2.4 | 7.1 | 10 | 14 | 5 | 12 | 55 | 4.9 | 0.72 | 3.7 |
| PGW4 | PGW4-GW | 10/19/2016 | 3.2 | < 0.5 | < 1 | < 1 | < 1 | < 0.5 | < 1 | < 1 | < 0.5 | < 0.5 | < 0.5 | < 1 |
| PGW5 | PGW5-GW | 10/19/2016 | < 0.5 | < 0.5 | < 1 | < 1 | < 1 | < 0.5 | < 1 | < 1 | < 0.5 | < 0.5 | < 0.5 | < 1 |
| MCL (Final) ¹ | | | 1.0 | 300 | NE | NE | NE | NE | 1,750 | 0.17 | NE | NE | 40 | NE |
| Commercial Land Use ESL (Vapor Intrusion) ² | | | 260 | 3,300 | NE | NE | NE | NE | NE | 1,600 | NE | NE | NE | NE |

Notes:

Detections are shown in bold. Results equal to or exceeding groundwater vapor intrusion human health ESLs (Table W-3) are shaded.

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

TMB = Trimethylbenzene.

VOCs = Volatile organic compounds.

µg/L= Micrograms per Liter.

<0.5 = Not detected at or above the indicated laboratory method reporting limit.

NE = Not established.

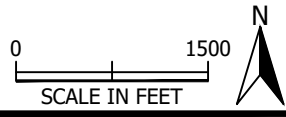
1. MCL = February 2016 Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) Environmental Screening Levels (ESLs), Table GW-1 Groundwater Direct Exposure Human Health Risk Screening Levels, Final MCL Priority Screening Level.

2. ESL = February 2016 RWQCB ESLs, Table W-3 Groundwater Vapor Intrusion Human Health Risk Levels, Deep Groundwater Commercial/Industrial: Fine to Coarse Scenario.

ILLUSTRATIONS



PROJECT SITE



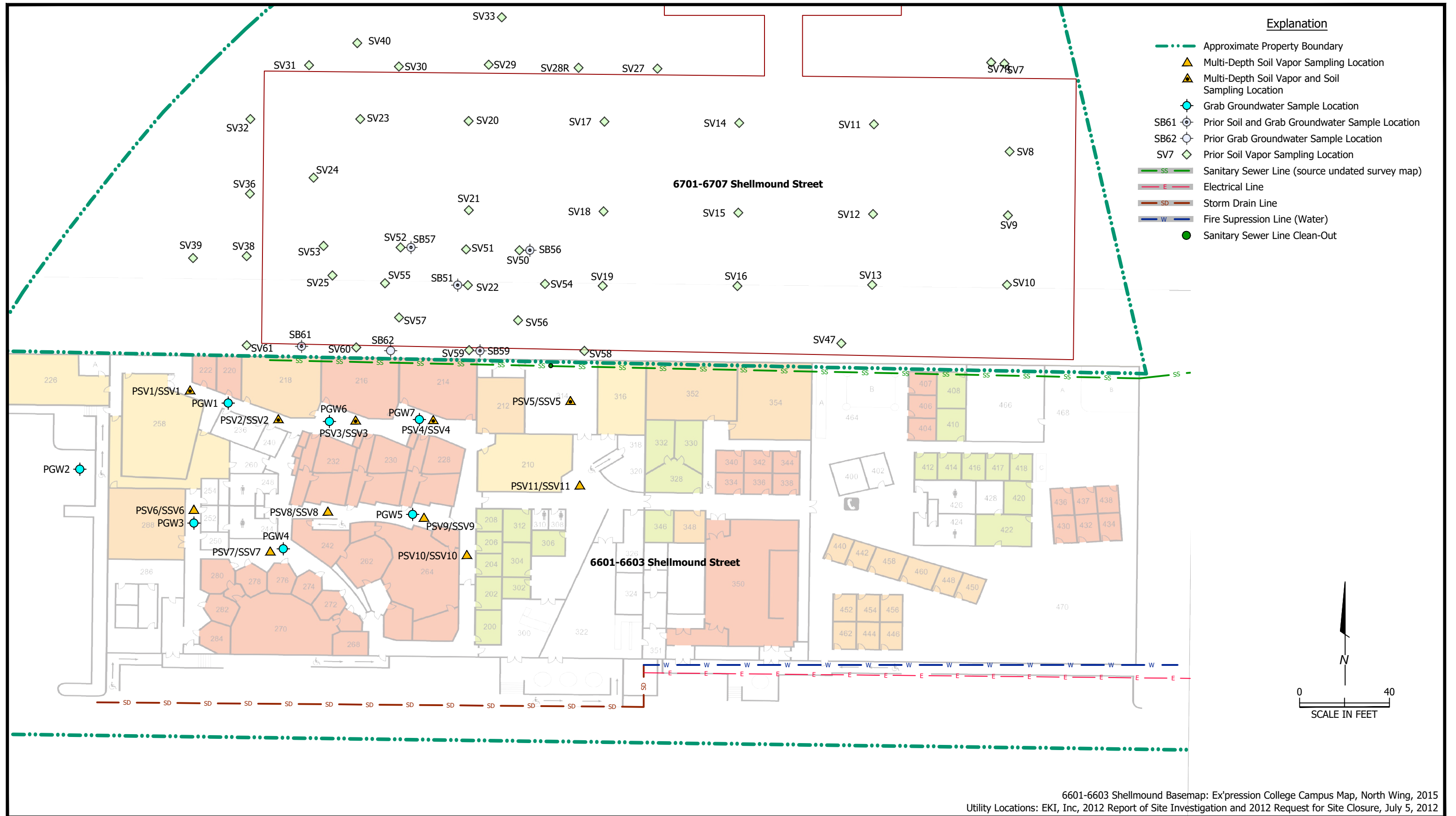
Aerial Photo: October 30, 2015 (Google 2016)

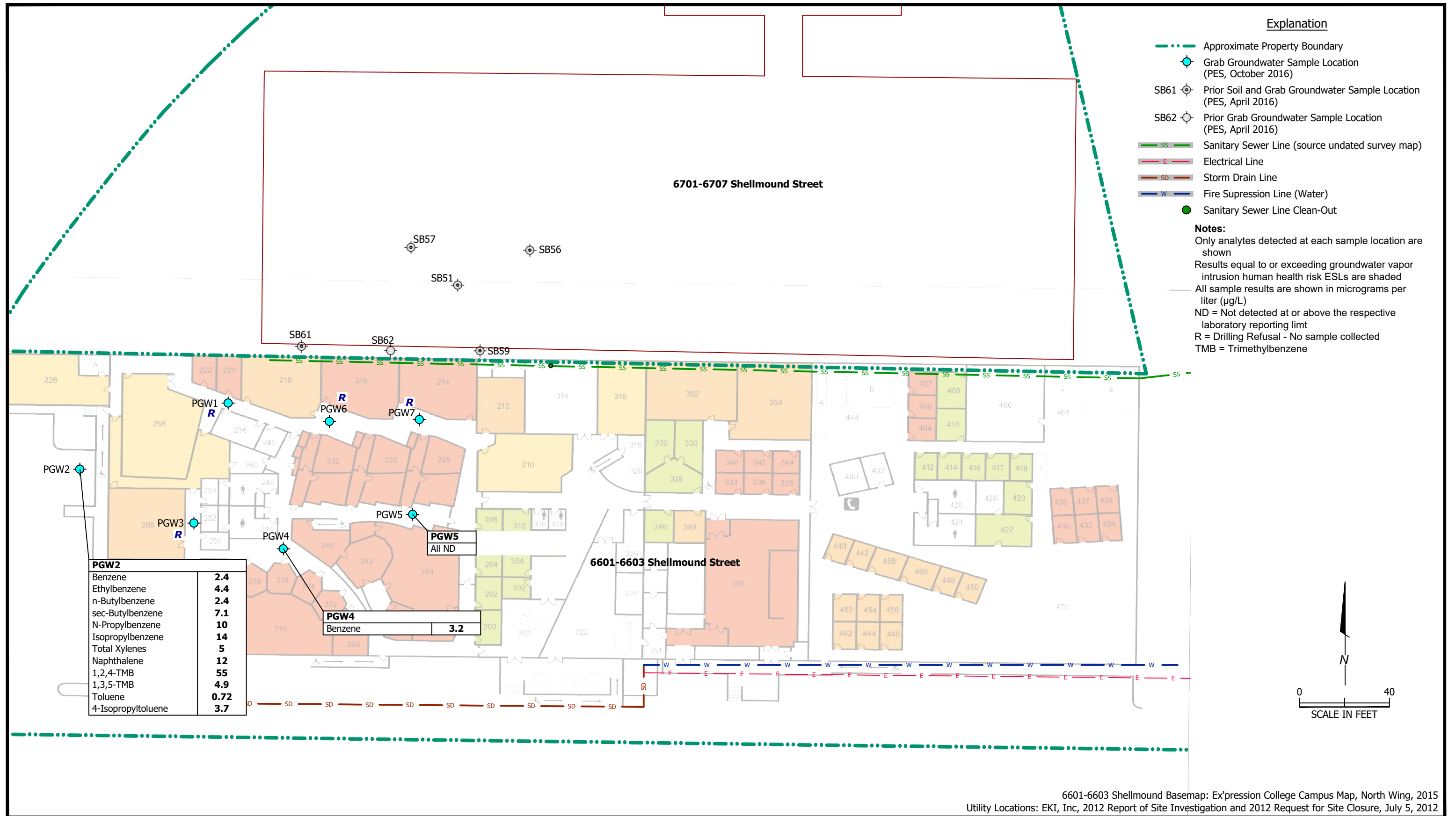


PES Environmental, Inc.
Engineering & Environmental Services

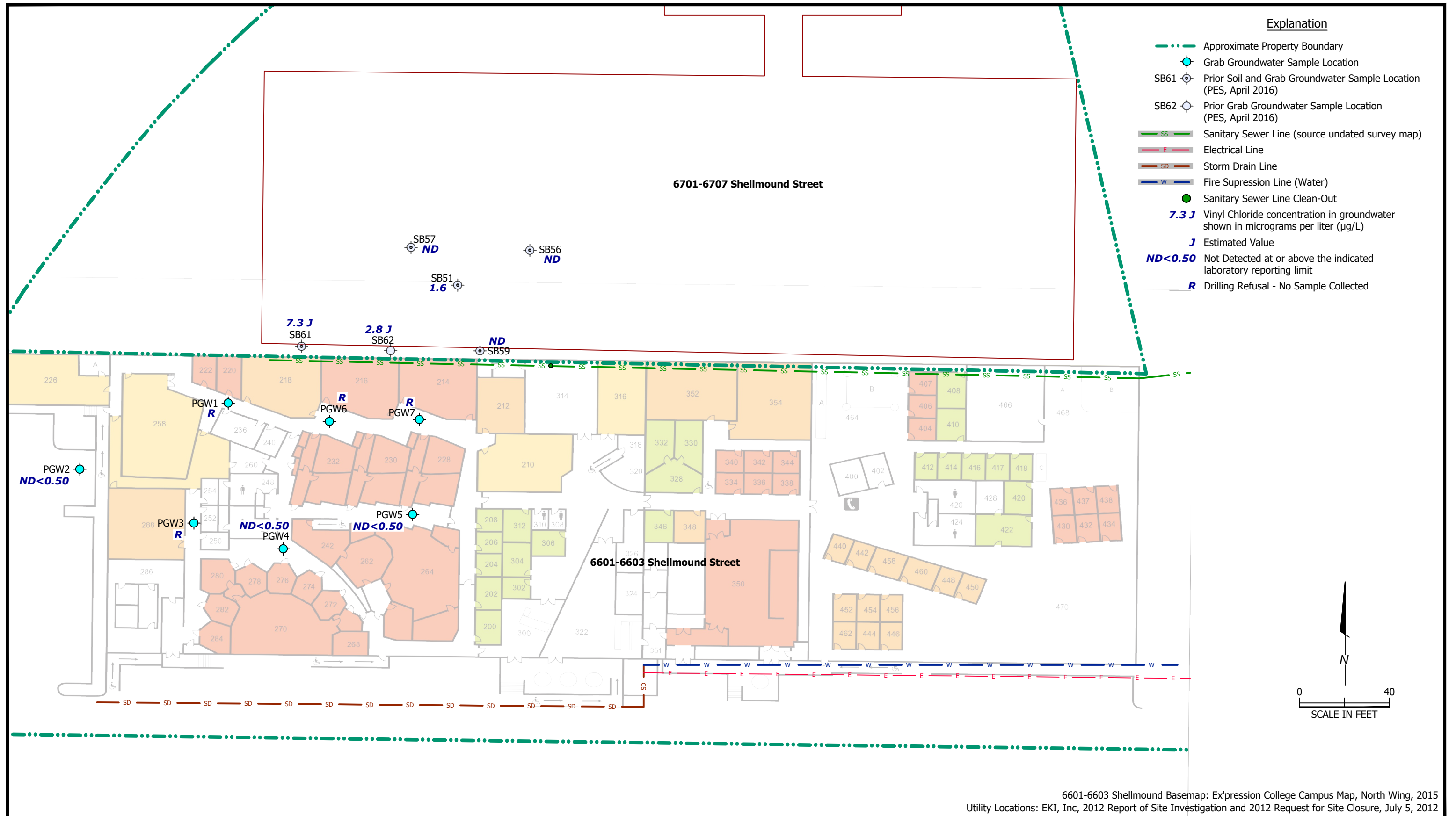
Site Location
Subsurface Off-Site Investigation
6601-6603 Shellmound Street
Emeryville, California

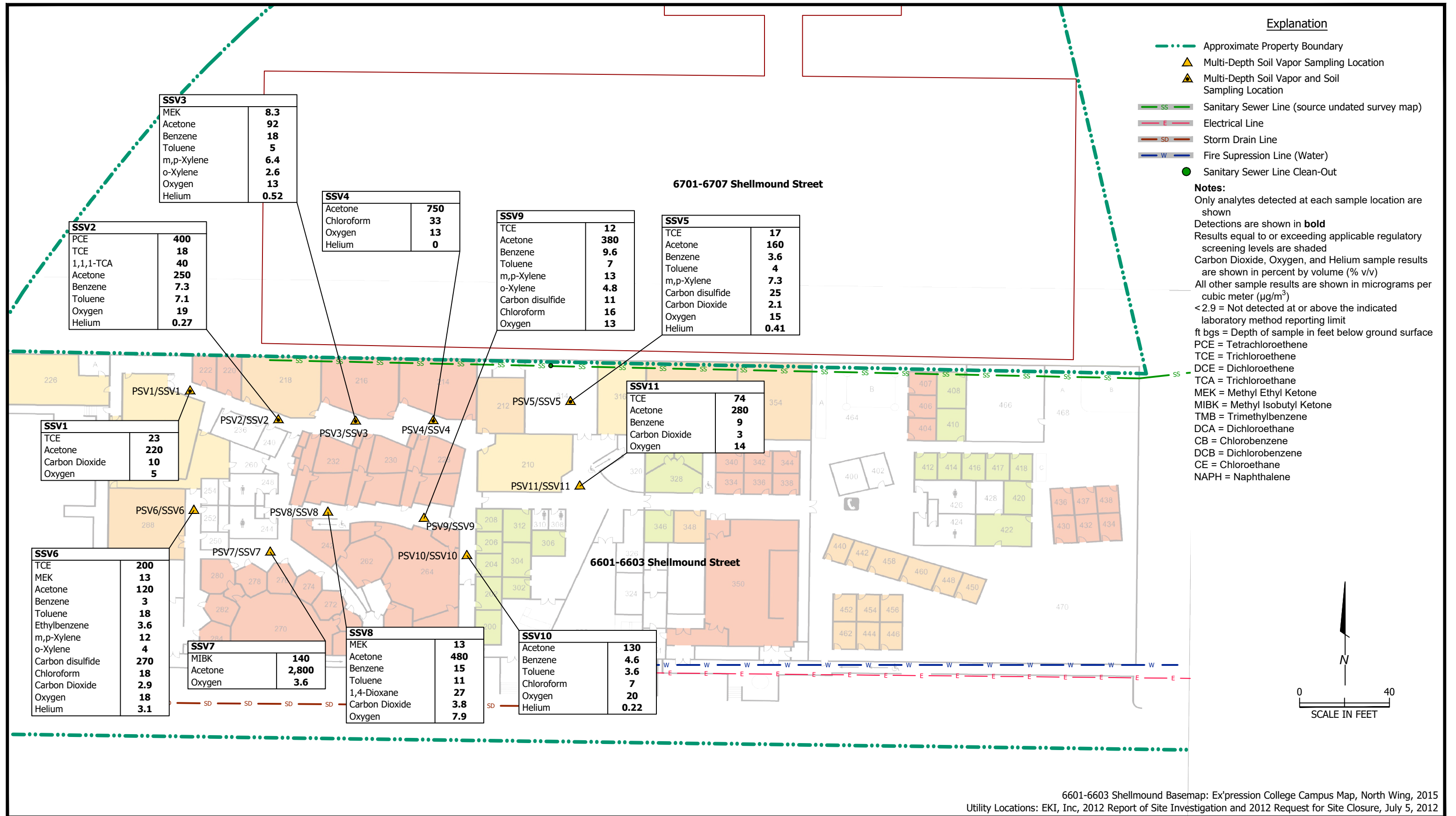
PLATE
1





6601-6603 Shellmound Basemap: Ex'pression College Campus Map, North Wing, 2015
 Utility Locations: EKI, Inc, 2012 Report of Site Investigation and 2012 Request for Site Closure, July 5, 2012











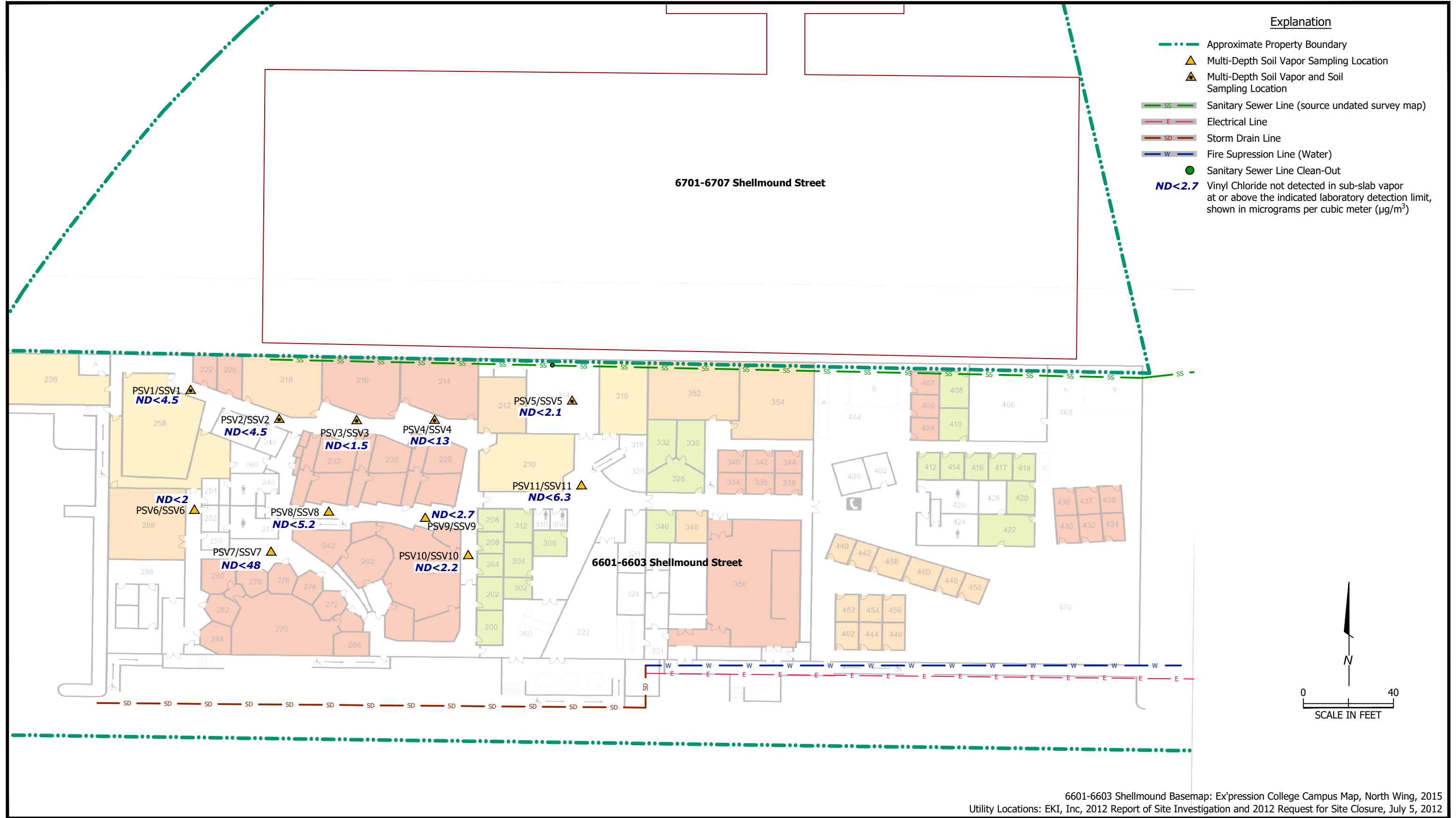


6601-6603 Shellmound Basemap: Ex'pression College Campus Map, North Wing, 2015
 Utility Locations: EKI, Inc, 2012 Report of Site Investigation and 2012 Request for Site Closure, July 5, 2012

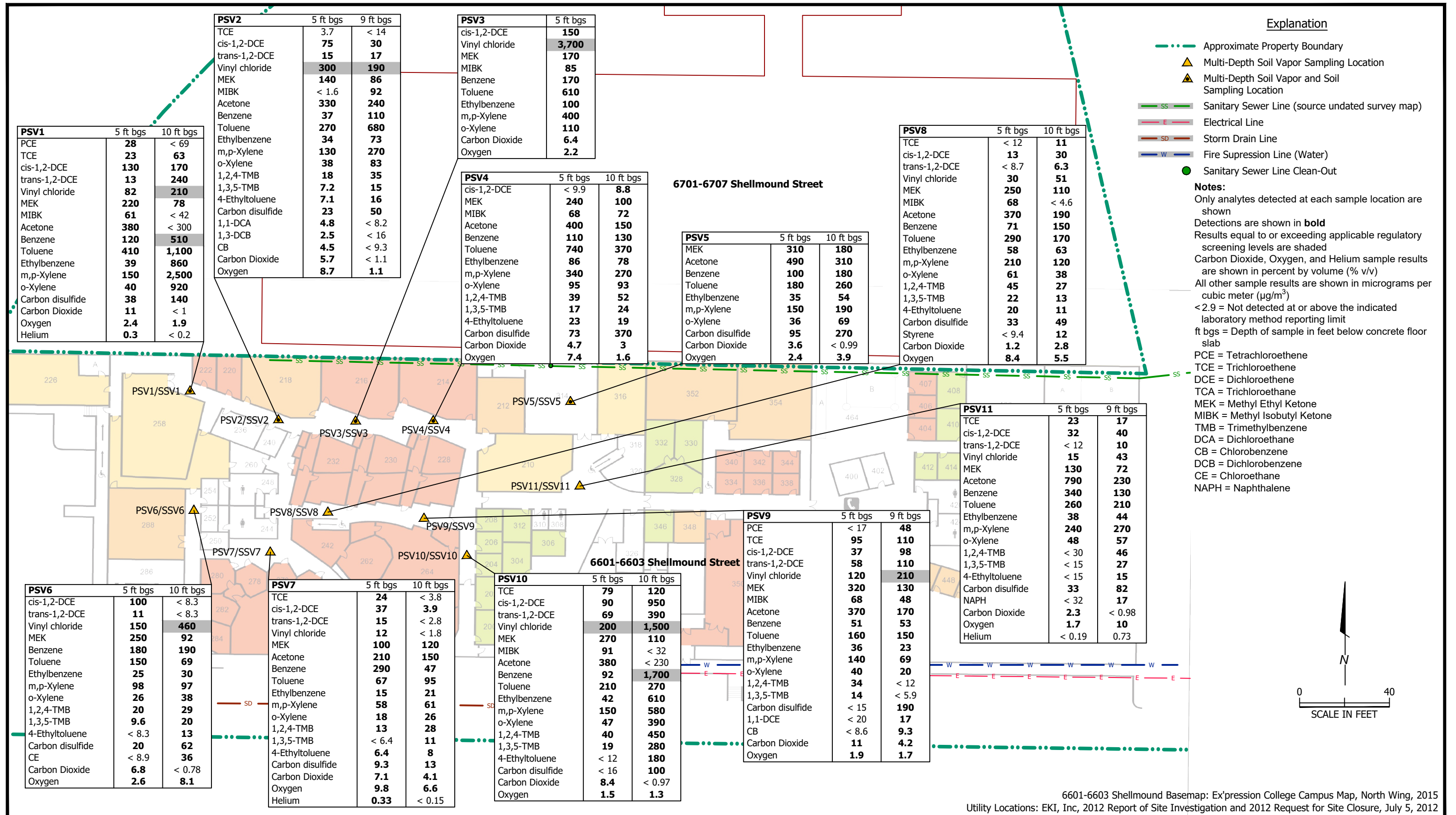
Detected Volatile Organic Compound Concentrations in Sub-slab Vapor Samples
 Subsurface Off-Site Investigation
 6601-6603 Shellmound Street
 Emeryville, California

Explanation

-  Approximate Property Boundary
-  Multi-Depth Soil Vapor Sampling Location
-  Multi-Depth Soil Vapor and Soil Sampling Location
-  Sanitary Sewer Line (source undated survey map)
-  Electrical Line
-  Storm Drain Line
-  Fire Suppression Line (Water)
-  Sanitary Sewer Line Clean-Out
- ND<2.7** Vinyl Chloride not detected in sub-slab vapor at or above the indicated laboratory detection limit, shown in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)



6601-6603 Shellmound Basemap: Ex'pression College Campus Map, North Wing, 2015
 Utility Locations: EKI, Inc, 2012 Report of Site Investigation and 2012 Request for Site Closure, July 5, 2012



Explanation

- Approximate Property Boundary
- ▲ Multi-Depth Soil Vapor Sampling Location
- ▲ Multi-Depth Soil Vapor and Soil Sampling Location
- SS Sanitary Sewer Line (source undated survey map)
- E Electrical Line
- SD Storm Drain Line
- W Fire Suppression Line (Water)
- Sanitary Sewer Line Clean-Out

Notes:
 Only analytes detected at each sample location are shown
 Detections are shown in **bold**
 Results equal to or exceeding applicable regulatory screening levels are shaded
 Carbon Dioxide, Oxygen, and Helium sample results are shown in percent by volume (% v/v)
 All other sample results are shown in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$)
 < 2.9 = Not detected at or above the indicated laboratory method reporting limit
 ft bgs = Depth of sample in feet below concrete floor slab
 PCE = Tetrachloroethene
 TCE = Trichloroethene
 DCE = Dichloroethene
 TCA = Trichloroethane
 MEK = Methyl Ethyl Ketone
 MIBK = Methyl Isobutyl Ketone
 TMB = Trimethylbenzene
 DCA = Dichloroethane
 CB = Chlorobenzene
 DCB = Dichlorobenzene
 CE = Chloroethane
 NAPH = Naphthalene

| PSV1 | 5 ft bgs | 10 ft bgs |
|------------------|------------|--------------|
| PCE | 28 | < 69 |
| TCE | 23 | 63 |
| cis-1,2-DCE | 130 | 170 |
| trans-1,2-DCE | 13 | 240 |
| Vinyl chloride | 82 | 210 |
| MEK | 220 | 78 |
| MIBK | 61 | < 42 |
| Acetone | 380 | < 300 |
| Benzene | 120 | 510 |
| Toluene | 410 | 1,100 |
| Ethylbenzene | 39 | 860 |
| m,p-Xylene | 150 | 2,500 |
| o-Xylene | 40 | 920 |
| Carbon disulfide | 38 | 140 |
| Carbon Dioxide | 11 | < 1 |
| Oxygen | 2.4 | 1.9 |
| Helium | 0.3 | < 0.2 |

| PSV2 | 5 ft bgs | 9 ft bgs |
|------------------|------------|------------|
| TCE | 3.7 | < 14 |
| cis-1,2-DCE | 75 | 30 |
| trans-1,2-DCE | 15 | 17 |
| Vinyl chloride | 300 | 190 |
| MEK | 140 | 86 |
| MIBK | < 1.6 | 92 |
| Acetone | 330 | 240 |
| Benzene | 37 | 110 |
| Toluene | 270 | 680 |
| Ethylbenzene | 34 | 73 |
| m,p-Xylene | 130 | 270 |
| o-Xylene | 38 | 83 |
| 1,2,4-TMB | 18 | 35 |
| 1,3,5-TMB | 7.2 | 15 |
| 4-Ethyltoluene | 7.1 | 16 |
| Carbon disulfide | 23 | 50 |
| 1,1-DCA | 4.8 | < 8.2 |
| 1,3-DCB | 2.5 | < 16 |
| CB | 4.5 | < 9.3 |
| Carbon Dioxide | 5.7 | < 1.1 |
| Oxygen | 8.7 | 1.1 |

| PSV3 | 5 ft bgs |
|----------------|--------------|
| cis-1,2-DCE | 150 |
| Vinyl chloride | 3,700 |
| MEK | 170 |
| MIBK | 85 |
| Benzene | 170 |
| Toluene | 610 |
| Ethylbenzene | 100 |
| m,p-Xylene | 400 |
| o-Xylene | 110 |
| Carbon Dioxide | 6.4 |
| Oxygen | 2.2 |

| PSV4 | 5 ft bgs | 10 ft bgs |
|------------------|------------|------------|
| cis-1,2-DCE | < 9.9 | 8.8 |
| MEK | 240 | 100 |
| MIBK | 68 | 72 |
| Acetone | 400 | 150 |
| Benzene | 110 | 130 |
| Toluene | 740 | 370 |
| Ethylbenzene | 86 | 78 |
| m,p-Xylene | 340 | 270 |
| o-Xylene | 95 | 93 |
| 1,2,4-TMB | 39 | 52 |
| 1,3,5-TMB | 17 | 24 |
| 4-Ethyltoluene | 23 | 19 |
| Carbon disulfide | 73 | 370 |
| Carbon Dioxide | 4.7 | 3 |
| Oxygen | 7.4 | 1.6 |

6701-6707 Shellmound Street

| PSV5 | 5 ft bgs | 10 ft bgs |
|------------------|------------|------------|
| MEK | 310 | 180 |
| Acetone | 490 | 310 |
| Benzene | 100 | 180 |
| Toluene | 180 | 260 |
| Ethylbenzene | 35 | 54 |
| m,p-Xylene | 150 | 190 |
| o-Xylene | 36 | 69 |
| Carbon disulfide | 95 | 270 |
| Carbon Dioxide | 3.6 | < 0.99 |
| Oxygen | 2.4 | 3.9 |

| PSV8 | 5 ft bgs | 10 ft bgs |
|------------------|------------|------------|
| TCE | < 12 | 11 |
| cis-1,2-DCE | 13 | 30 |
| trans-1,2-DCE | < 8.7 | 6.3 |
| Vinyl chloride | 30 | 51 |
| MEK | 250 | 110 |
| MIBK | 68 | < 4.6 |
| Acetone | 370 | 190 |
| Benzene | 71 | 150 |
| Toluene | 290 | 170 |
| Ethylbenzene | 58 | 63 |
| m,p-Xylene | 210 | 120 |
| o-Xylene | 61 | 38 |
| 1,2,4-TMB | 45 | 27 |
| 1,3,5-TMB | 22 | 13 |
| 4-Ethyltoluene | 20 | 11 |
| Carbon disulfide | 33 | 49 |
| Styrene | < 9.4 | 12 |
| Carbon Dioxide | 1.2 | 2.8 |
| Oxygen | 8.4 | 5.5 |

| PSV6 | 5 ft bgs | 10 ft bgs |
|------------------|------------|------------|
| cis-1,2-DCE | 100 | < 8.3 |
| trans-1,2-DCE | 11 | < 8.3 |
| Vinyl chloride | 150 | 460 |
| MEK | 250 | 92 |
| Benzene | 180 | 190 |
| Toluene | 150 | 69 |
| Ethylbenzene | 25 | 30 |
| m,p-Xylene | 98 | 97 |
| o-Xylene | 26 | 38 |
| 1,2,4-TMB | 20 | 29 |
| 1,3,5-TMB | 9.6 | 20 |
| 4-Ethyltoluene | < 8.3 | 13 |
| Carbon disulfide | 20 | 62 |
| CE | < 8.9 | 36 |
| Carbon Dioxide | 6.8 | < 0.78 |
| Oxygen | 2.6 | 8.1 |

| PSV7 | 5 ft bgs | 10 ft bgs |
|------------------|-------------|------------|
| TCE | 24 | < 3.8 |
| cis-1,2-DCE | 37 | 3.9 |
| trans-1,2-DCE | 15 | < 2.8 |
| Vinyl chloride | 12 | < 1.8 |
| MEK | 100 | 120 |
| Acetone | 210 | 150 |
| Benzene | 290 | 47 |
| Toluene | 67 | 95 |
| Ethylbenzene | 15 | 21 |
| m,p-Xylene | 58 | 61 |
| o-Xylene | 18 | 26 |
| 1,2,4-TMB | 13 | 28 |
| 1,3,5-TMB | < 6.4 | 11 |
| 4-Ethyltoluene | 6.4 | 8 |
| Carbon disulfide | 9.3 | 13 |
| Carbon Dioxide | 7.1 | 4.1 |
| Oxygen | 9.8 | 6.6 |
| Helium | 0.33 | < 0.15 |

| PSV10 | 5 ft bgs | 10 ft bgs |
|------------------|------------|--------------|
| TCE | 79 | 120 |
| cis-1,2-DCE | 90 | 950 |
| trans-1,2-DCE | 69 | 390 |
| Vinyl chloride | 200 | 1,500 |
| MEK | 270 | 110 |
| MIBK | 91 | < 32 |
| Acetone | 380 | < 230 |
| Benzene | 92 | 1,700 |
| Toluene | 210 | 270 |
| Ethylbenzene | 42 | 610 |
| m,p-Xylene | 150 | 580 |
| o-Xylene | 47 | 390 |
| 1,2,4-TMB | 40 | 450 |
| 1,3,5-TMB | 19 | 280 |
| 4-Ethyltoluene | < 12 | 180 |
| Carbon disulfide | < 16 | 100 |
| Carbon Dioxide | 8.4 | < 0.97 |
| Oxygen | 1.5 | 1.3 |

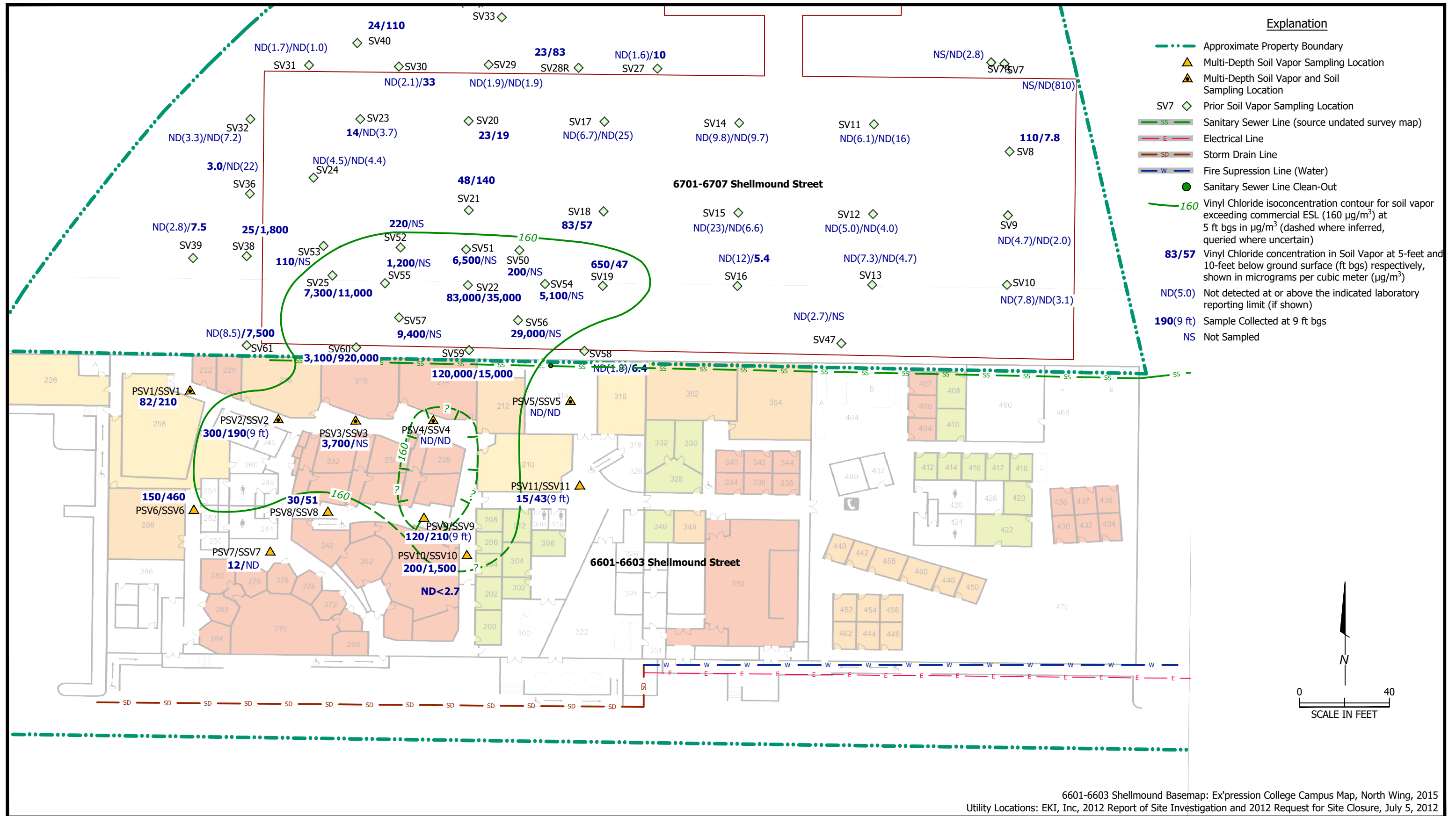
6601-6603 Shellmound Street

| PSV9 | 5 ft bgs | 9 ft bgs |
|------------------|------------|------------|
| PCE | < 17 | 48 |
| TCE | 95 | 110 |
| cis-1,2-DCE | 37 | 98 |
| trans-1,2-DCE | 58 | 110 |
| Vinyl chloride | 120 | 210 |
| MEK | 320 | 130 |
| MIBK | 68 | 48 |
| Acetone | 370 | 170 |
| Benzene | 51 | 53 |
| Toluene | 160 | 150 |
| Ethylbenzene | 36 | 23 |
| m,p-Xylene | 140 | 69 |
| o-Xylene | 40 | 20 |
| 1,2,4-TMB | 34 | < 12 |
| 1,3,5-TMB | 14 | < 5.9 |
| Carbon disulfide | < 15 | 190 |
| 1,1-DCE | < 20 | 17 |
| CB | < 8.6 | 9.3 |
| Carbon Dioxide | 11 | 4.2 |
| Oxygen | 1.9 | 1.7 |

| PSV11 | 5 ft bgs | 9 ft bgs |
|------------------|------------|-------------|
| TCE | 23 | 17 |
| cis-1,2-DCE | 32 | 40 |
| trans-1,2-DCE | < 12 | 10 |
| Vinyl chloride | 15 | 43 |
| MEK | 130 | 72 |
| Acetone | 790 | 230 |
| Benzene | 340 | 130 |
| Toluene | 260 | 210 |
| Ethylbenzene | 38 | 44 |
| m,p-Xylene | 240 | 270 |
| o-Xylene | 48 | 57 |
| 1,2,4-TMB | < 30 | 46 |
| 1,3,5-TMB | < 15 | 27 |
| 4-Ethyltoluene | < 15 | 15 |
| Carbon disulfide | 33 | 82 |
| NAPH | < 32 | 17 |
| Carbon Dioxide | 2.3 | < 0.98 |
| Oxygen | 1.7 | 10 |
| Helium | < 0.19 | 0.73 |

6601-6603 Shellmound Basemap: Ex'pression College Campus Map, North Wing, 2015
 Utility Locations: EKI, Inc, 2012 Report of Site Investigation and 2012 Request for Site Closure, July 5, 2012

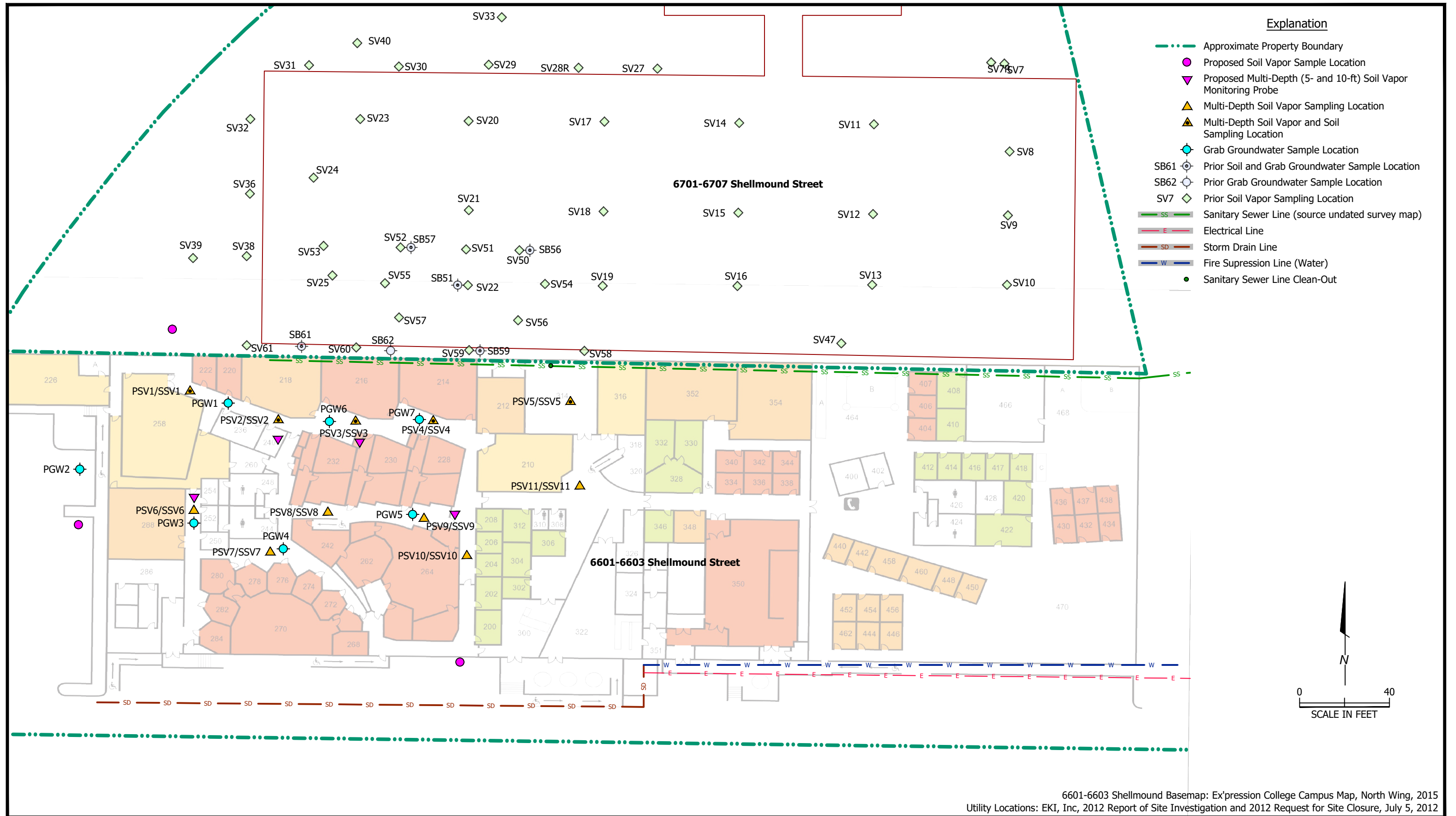
Detected Volatile Organic Compound Concentrations in Soil Vapor Samples at 5- and 10-ft Below Ground Surface
 Subsurface Off-Site Investigation
 6601-6603 Shellmound Street
 Emeryville, California



6601-6603 Shellmound Basemap: Ex'pression College Campus Map, North Wing, 2015
 Utility Locations: EKI, Inc, 2012 Report of Site Investigation and 2012 Request for Site Closure, July 5, 2012

Vinyl Chloride Concentrations in Soil Vapor Samples at 5- and 10-ft Below Ground Surface
 Subsurface Off-Site Investigation
 6601-6603 Shellmound Street
 Emeryville, California



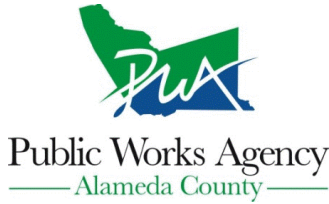


6601-6603 Shellmound Basemap: Ex'pression College Campus Map, North Wing, 2015
 Utility Locations: EKI, Inc, 2012 Report of Site Investigation and 2012 Request for Site Closure, July 5, 2012

APPENDIX A

ALAMEDA COUNTY PUBLIC WORKS AGENCY DRILLING PERMITS

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 10/13/2016 By jamesy

Permit Numbers: W2016-0754
Permits Valid from 10/18/2016 to 10/21/2016

Application Id: 1476296235522
Site Location: 6601-6603 Shellmound Street
Project Start Date: 10/18/2016
Assigned Inspector: Contact Marcelino Vialpando at (510) 670-5760 or Marcelino@acpwa.org

City of Project Site: Emeryville

Completion Date: 10/21/2016

Applicant: PES Environmental, Inc. - Chris Baldassari
7665 Redwood Blvd., Suite 200, Novato, CA 94945
Phone: 415-899-1600

Property Owner: Griffin Capital Shellmound, c/o Julie Treinen
1520 East Grand Avenue, El Segundo, CA 90245
Phone: 310-469-6107

Client: Anton Evolve Emeryville, c/o Rachel Green
950 Tower Lane, Suite 1225, Foster City, CA 94404
Phone: 650-549-1607

Contact: James Phillips
Phone: 415-899-1600
Cell: 415-250-2864

| | | |
|--|---------------------------|---------------------|
| | Total Due: | \$265.00 |
| Receipt Number: WR2016-0516 | Total Amount Paid: | \$265.00 |
| Payer Name : PES Environmental, Inc | Paid By: CHECK | PAID IN FULL |

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 18 Boreholes
Driller: Environmental Control Associates - Lic #: 695970 - Method: DP

Work Total: \$265.00

Specifications

| Permit Number | Issued Dt | Expire Dt | # Boreholes | Hole Diam | Max Depth |
|---------------|------------|------------|-------------|-----------|-----------|
| W2016-0754 | 10/13/2016 | 01/16/2017 | 18 | 2.00 in. | 20.00 ft |

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Alameda County Public Works Agency - Water Resources Well Permit

5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
 7. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.
 8. NOTE:
Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.
 9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.
-

APPENDIX B

SOIL BORING LOGS

| MAJOR DIVISIONS | | | | | TYPICAL NAMES |
|--|--|--|----|-------------------------------------|---|
| COARSE-GRAINED SOILS MORE THAN HALF IS COARSER THAN NO. 200 SIEVE | GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE | CLEAN GRAVELS WITH LESS THAN 15% FINES | GW | | WELL-GRADED GRAVELS WITH OR WITHOUT SAND |
| | | | GP | | POORLY-GRADED GRAVELS WITH OR WITHOUT SAND |
| | | GRAVELS WITH 15% OR MORE FINES | GM | | SILTY GRAVELS WITH OR WITHOUT SAND |
| | | | GC | | CLAYEY GRAVELS WITH OR WITHOUT SAND |
| | SANDS MORE THAN HALF COARSE FRACTION IS FINER THAN NO. 4 SIEVE SIZE | CLEAN SANDS WITH LESS THAN 15% FINES | SW | | WELL-GRADED SANDS WITH OR WITHOUT GRAVEL |
| | | | SP | | POORLY-GRADED SANDS WITH OR WITHOUT GRAVEL |
| | | SANDS WITH 15% OR MORE FINES | SM | | SILTY SANDS WITH OR WITHOUT GRAVEL |
| | | | SC | | CLAYEY SANDS WITH OR WITHOUT GRAVEL |
| FINE-GRAINED SOILS MORE THAN HALF IS FINER THAN NO. 200 SIEVE | SILTS AND CLAYS LIQUID LIMIT 50% OR LESS | | ML | | INORGANIC SILTS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL |
| | | | CL | | INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL |
| | | | OL | | ORGANIC SILTS OR CLAYS OF LOW TO MEDIUM PLASTICITY WITH OR WITHOUT SAND OR GRAVEL |
| | SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50% | | MH | | INORGANIC SILTS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL |
| | | | CH | | INORGANIC CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL |
| | | | OH | | ORGANIC SILTS OR CLAYS OF HIGH PLASTICITY WITH OR WITHOUT SAND OR GRAVEL |
| HIGHLY ORGANIC SOILS | | PT | | PEAT AND OTHER HIGHLY ORGANIC SOILS | |

ABBREVIATION KEY

- PID (PPM) - Photo Ionization Detector readings in parts per million from field headspace sample screening.
- BLOWS/6" - Blows required to drive sampler 6 inches as indicated on the logs using sample drive hammer weight of 140 pounds falling 30 inches.
- 2.5YR 6/2 - Soil Color according to Munsell Soil Color Charts (1994 Revised Edition)
- feet MSL - feet above Mean Seal Level
- feet BGS - feet below ground surface

SYMBOLS KEY

- No Soil Sample Recovered
- Partial Soil Sample Recovered
- Undisturbed Soil Sample Recovered
- Soil Sample Submitted for Laboratory Analysis
- Hydropunch Sample
- First Encountered Groundwater Level
- Piezometric Groundwater level

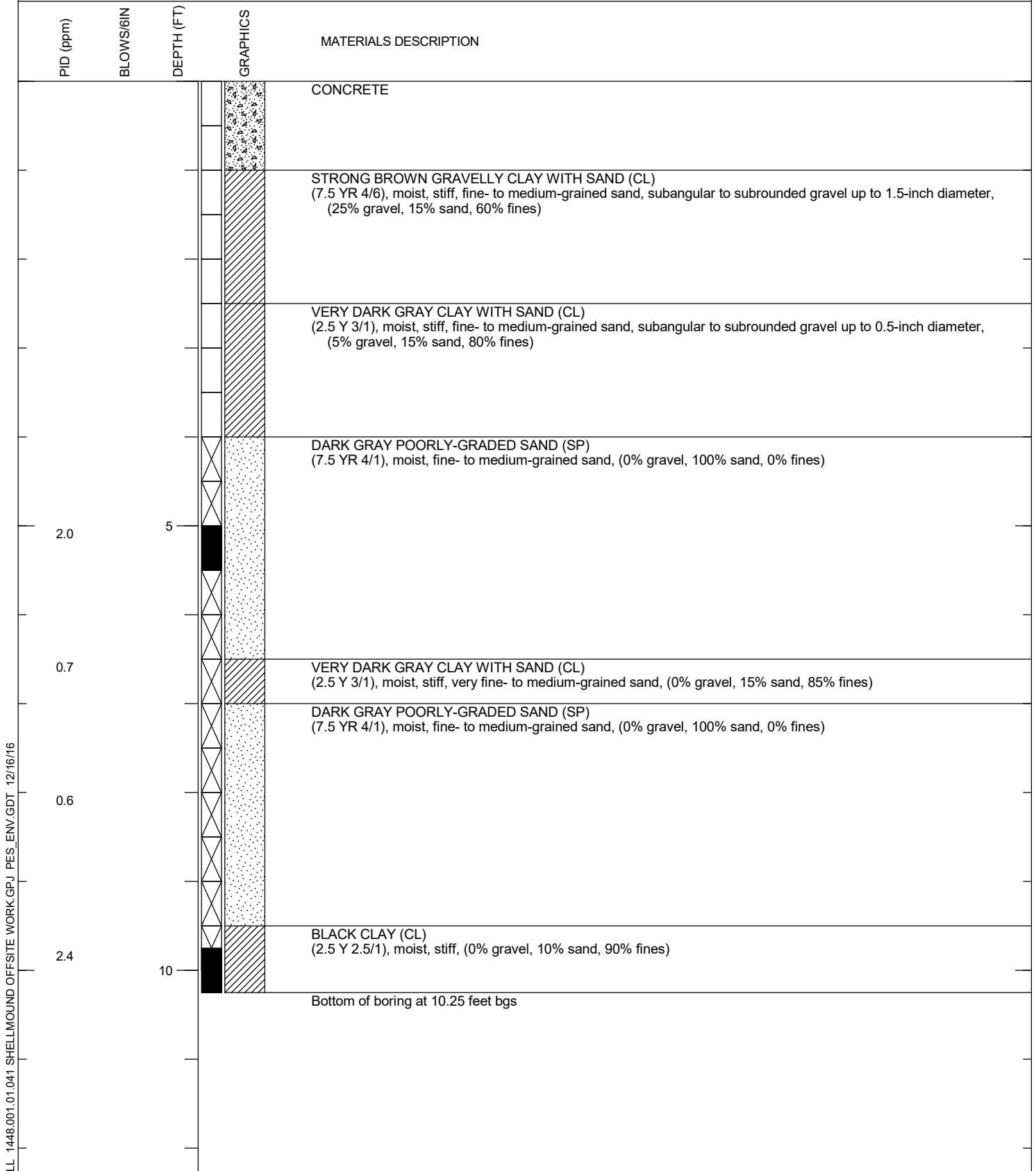


PES Environmental, Inc.
Engineering & Environmental Services

Unified Soil Classification System Chart
Anton Evolve
6601 - 6603 Shellmound Street

PLATE

B-0

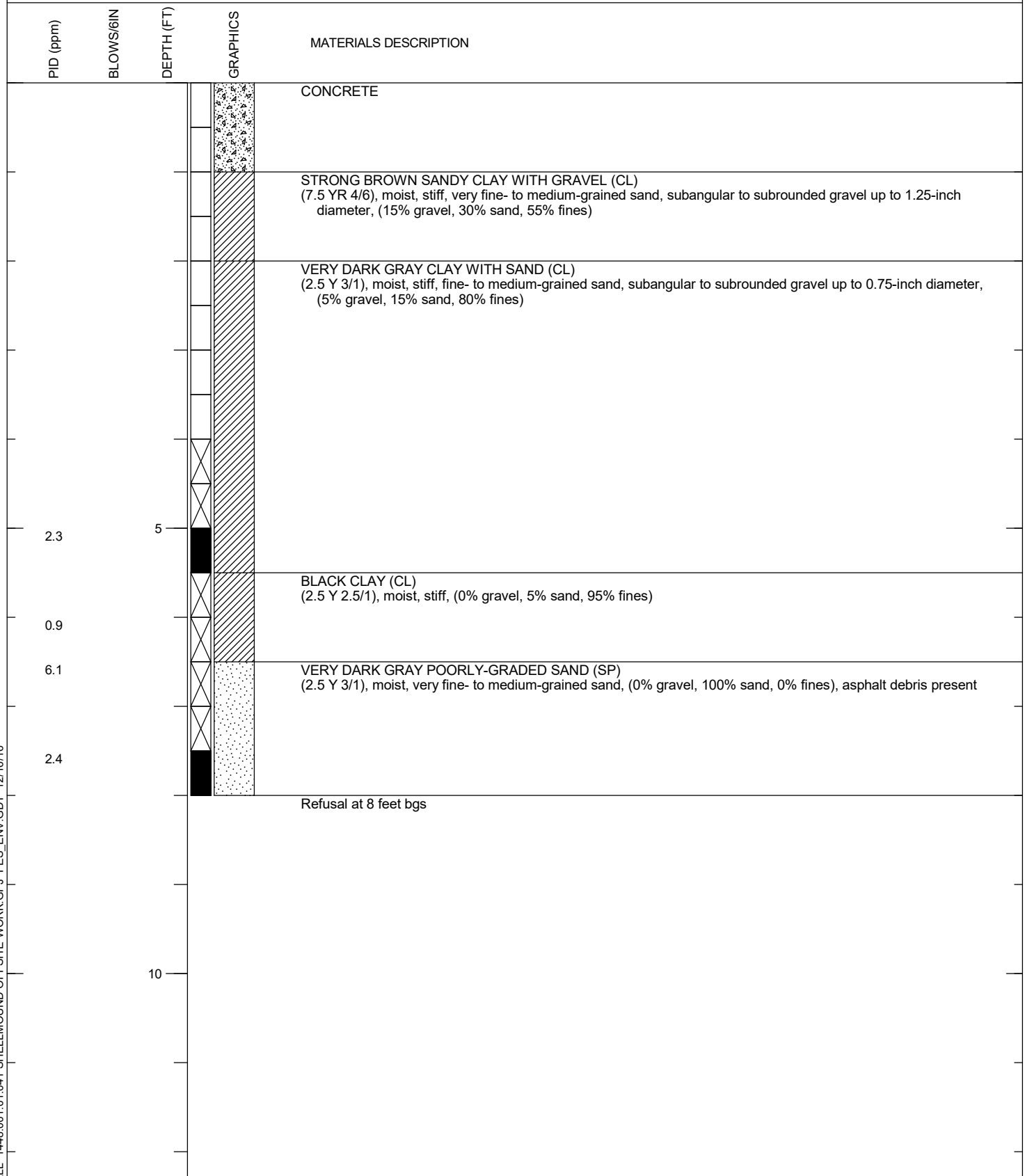


LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 10.3 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | James Phillips | DATE STARTED | 10/21/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/21/16 |

PLATE

B-2



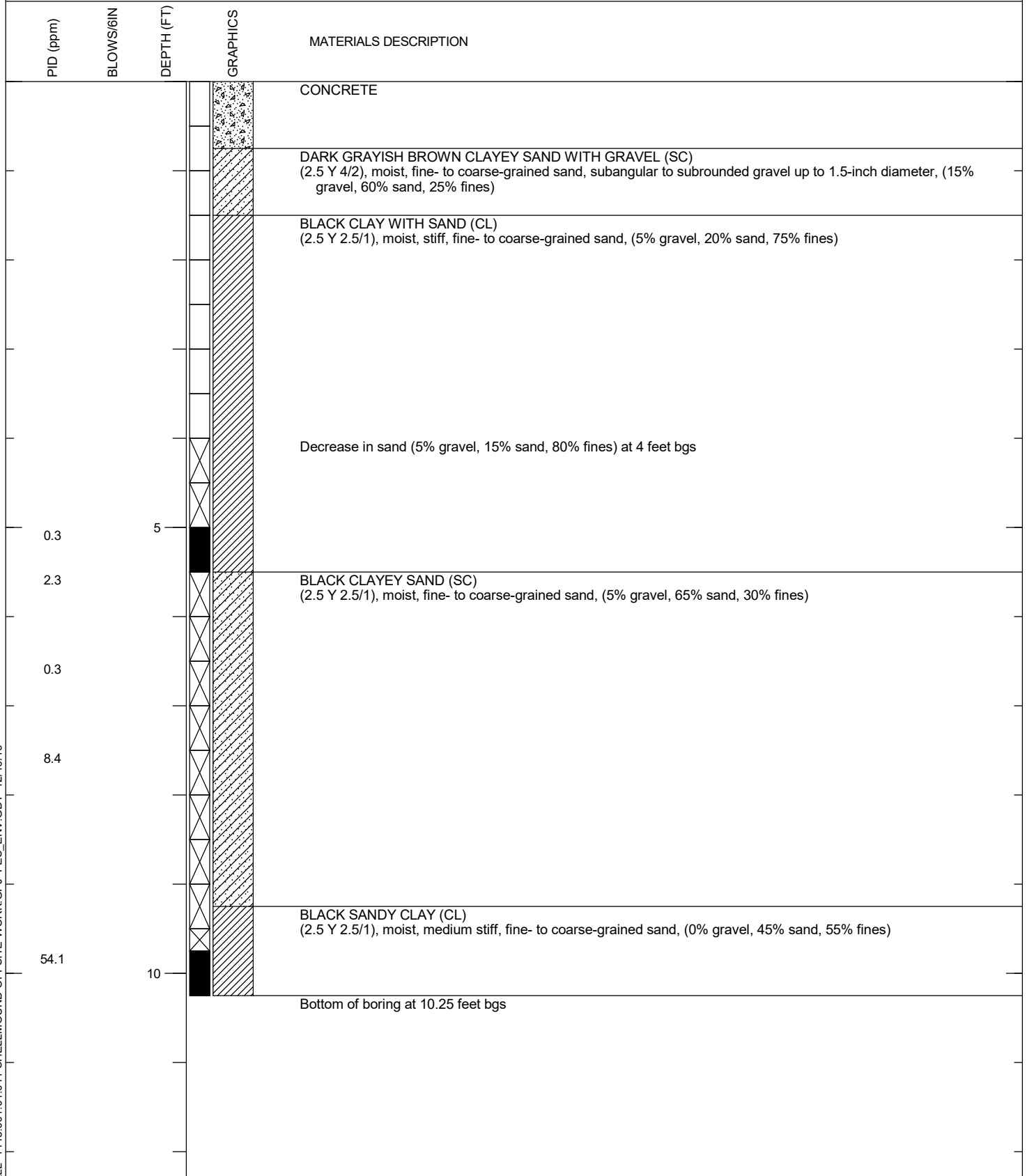
LOG OF BORING/WELL 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

PROJECT Anton Evolve
 LOCATION 6601 - 6603 Shellmound Street
 JOB NUMBER 1448.001.01.041
 LOGGED BY James Phillips
 REVIEWED BY CJB

DIAMETER OF HOLE 2.25 inches
 TOTAL DEPTH OF HOLE 8 feet
 DRILL RIG Geoprobe 54 LT
 DATE STARTED 10/21/16
 DATE COMPLETED 10/21/16

PLATE

B-3



LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

PROJECT Anton Evolve
 LOCATION 6601 - 6603 Shellmound Street
 JOB NUMBER 1448.001.01.041
 LOGGED BY James Phillips
 REVIEWED BY CJB

DIAMETER OF HOLE 2.25 inches
 TOTAL DEPTH OF HOLE 10.3 feet
 DRILL RIG Geoprobe 54 LT
 DATE STARTED 10/21/16
 DATE COMPLETED 10/21/16

PLATE

B-4



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|--|
| | | | | CONCRETE |
| | | | | STRONG BROWN CLAY WITH SAND (CL) (7.5YR 4/6), moist, stiff, very fine- to medium-grained sand, subangular to subrounded gravel up to 0.5-inch diameter, (10% gravel, 20% sand, 70% fines) Change in color to DARK GRAY (2.5Y 4/1) at 1.5 feet bgs Increase in sand to (10% gravel, 25% sand, 65% fines) at 3 feet bgs |
| 0.1 | | 5 | | DARK OLIVE BROWN CLAY (CL) (2.5Y 3/3), moist, stiff, very fine-grained sand, (0% gravel, 10% sand, 90% fines) |
| 0.1 | | | | VERY DARK GRAYISH BROWN SANDY CLAY WITH GRAVEL (CL) (2.5Y 3/2), moist, stiff, very fine- to medium-grained sand, subangular to subrounded gravel up to 0.75-inch diameter, (15% gravel, 25% sand, 60% fines) Asphalt fragments (100%) present from 7.5 to 8 feet bgs |
| 0.3 | | | | VERY DARK GRAYISH BROWN CLAY WITH SAND (CL) (2.5Y 3/2), moist to wet, very fine-grained sand, (0% gravel, 15% sand, 85% fines) Change in color to BLACK (2.5Y 2.5/1) |
| | | 10 | | Bottom of boring at 10.25 feet bgs |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

PROJECT Anton Evolve
 LOCATION 6601 - 6603 Shellmound Street
 JOB NUMBER 1448.001.01.041
 LOGGED BY James Phillips
 REVIEWED BY CJB

DIAMETER OF HOLE 2.25 inches
 TOTAL DEPTH OF HOLE 10.3 feet
 DRILL RIG Geoprobe 54 LT
 DATE STARTED 10/19/16
 DATE COMPLETED 10/19/16

PLATE

B-5



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|--|
| | | | | CONCRETE |
| | | | | STRONG BROWN CLAY WITH SAND (CL) (7.5YR 4/6), moist, stiff, very fine- to medium-grained sand, subangular to subrounded gravel up to 0.5-inch diameter, (10% gravel, 20% sand, 70% fines) |
| | | | | BLACK CLAY WITH SAND (CL) (2.5Y 2.5/1), moist, stiff, fine- to medium-grained sand, (0% gravel, 15% sand, 85% fines), brick, metal, and glass debris present |
| 0.1 | | 5 | | Increase in sand to (0% gravel, 25% sand, 75% fines) at 5 feet bgs |
| 1.2 | | | | |
| | | | | Decrease in sand to (0% gravel, 15% sand, 85% fines) at 7 feet bgs |
| 0.5 | | | | Change in color to BROWN (7.5YR 4/3), subangular to subrounded gravel up to 1-inch diameter, (5% gravel, 15% sand, 80% fines) |
| | | 10 | | BLACK POORLY-GRADED SAND (SP) (2.5Y 2.5/1), moist, coarse-grained sand, (0% gravel, 100% sand, 0% fines) |
| | | | | Bottom of boring at 10.25 feet bgs |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

PROJECT Anton Evolve
 LOCATION 6601 - 6603 Shellmound Street
 JOB NUMBER 1448.001.01.041
 LOGGED BY James Phillips
 REVIEWED BY CJB

DIAMETER OF HOLE 2.25 inches
 TOTAL DEPTH OF HOLE 10.3 feet
 DRILL RIG Geoprobe 54 LT
 DATE STARTED 10/20/16
 DATE COMPLETED 10/20/16

PLATE

B-6



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|---|
| | | | | CONCRETE |
| | | | | STRONG BROWN CLAYEY SAND (SC) (7.5YR 4/6), moist, fine- to coarse-grained sand, subangular to subrounded gravel up to 1-inch diameter, (5% gravel, 35% sand, 60% fines) |
| | | | | BLACK CLAY WITH SAND (CL) (2.5Y 2.5/1), moist, stiff, fine- to medium-grained sand, (0% gravel, 15% sand, 85% fines) |
| | | | | DARK GRAY POORLY-GRADED SAND (SP) (7.5YR 4/1), moist, fine- to medium-grained sand, (0% gravel, 100% sand, 0% fines) |
| 1.1 | | 5 | | VERY DARK GRAY SANDY CLAY (CL) (2.5Y 3/1), moist, medium stiff, fine-grained sand, subangular to subrounded gravel up to 1-inch diameter, (5% gravel, 40% sand, 55% fines) |
| 30.1 | | | | |
| 2.4 | | | | |
| 3.2 | | | | Asphalt debris present (~10 to 20%) |
| 2.2 | | 10 | | |
| | | | | Bottom of boring at 10.25 feet bgs |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 10.3 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | Chris Pollio | DATE STARTED | 10/20/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/20/16 |

PLATE

B-7



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|--|
| | | | | CONCRETE |
| | | | | STRONG BROWN CLAYEY SAND (SC) (7.5YR 4/6), moist, fine- to coarse-grained sand, subangular to subrounded gravel up to 1-inch diameter, (5% gravel, 35% sand, 60% fines) |
| | | | | BLACK SANDY CLAY (CL) (2.5Y 2.5/1), moist, stiff, fine- to medium-grained sand, subangular to subrounded gravel up to 1.5-inch diameter, (10% gravel, 25% sand, 65% fines) |
| | | | | BLACK CLAY WITH SAND (CL) (2.5Y 3/1), moist, stiff, fine- to medium-grained sand, subangular to subrounded gravel up to 1.5-inch diameter, (5% gravel, 25% sand, 70% fines) |
| 1.8 | 5 | | | |
| 3.3 | | | | Change in color to BLACK (2.5Y 2.5/1) at 6 feet bgs |
| | | | | 90 to 100% concrete debris present from 7-7.5 feet bgs |
| 3.5 | | | | Concrete debris present from 7.5 to 9.5 feet bgs |
| 2.1 | | | | |
| 0.3 | | | | BLACK CLAY (CL) (2.5Y 2.5/1), moist, stiff, very fine-grained sand, (0% gravel, 10% sand, 90% fines) |
| | 10 | | | |
| | | | | Bottom of boring at 10.25 feet bgs |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 10.3 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | Chris Pollio | DATE STARTED | 10/20/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/20/16 |

PLATE

B-8



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|---|
| | | | | CONCRETE |
| | | | | STRONG BROWN CLAYEY SAND (SC) (7.5YR 4/6), moist, fine- to coarse-grained sand, subangular to subrounded gravel up to 1-inch diameter, (5% gravel, 35% sand, 60% fines) |
| | | | | VERY DARK GRAY CLAY WITH SAND (CL) (2.5Y 3/1), moist, stiff, fine- to coarse-grained sand, subangular to subrounded gravel up to 0.75-inch diameter, (trace gravel, 20% sand, 80% fines) |
| | | | | 2-inch thick lens of sand present at 3.5 feet bgs, DARK GRAY (7.5YR 4/1), fine- to medium-grained sand |
| 0.8 | | | | |
| | 5 | | | Odor present at 5 feet bgs, increase in gravel to (10% gravel, 15% sand, 75% fines) |
| 22.1 | | | | |
| 10.4 | | | | |
| 9.9 | | | | BLACK WELL-GRADED SAND (SW) (2.5Y 2.5/1), moist, fine- to coarse-grained sand, subangular to subrounded gravel up to 0.5-inch diameter, (5% gravel, 85% sand, 10% fines), metal and glass debris present |
| | | | | Refusal at 9.25 feet bgs |
| | 10 | | | |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 9.3 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | Chris Pollio | DATE STARTED | 10/20/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/20/16 |

PLATE

B-9



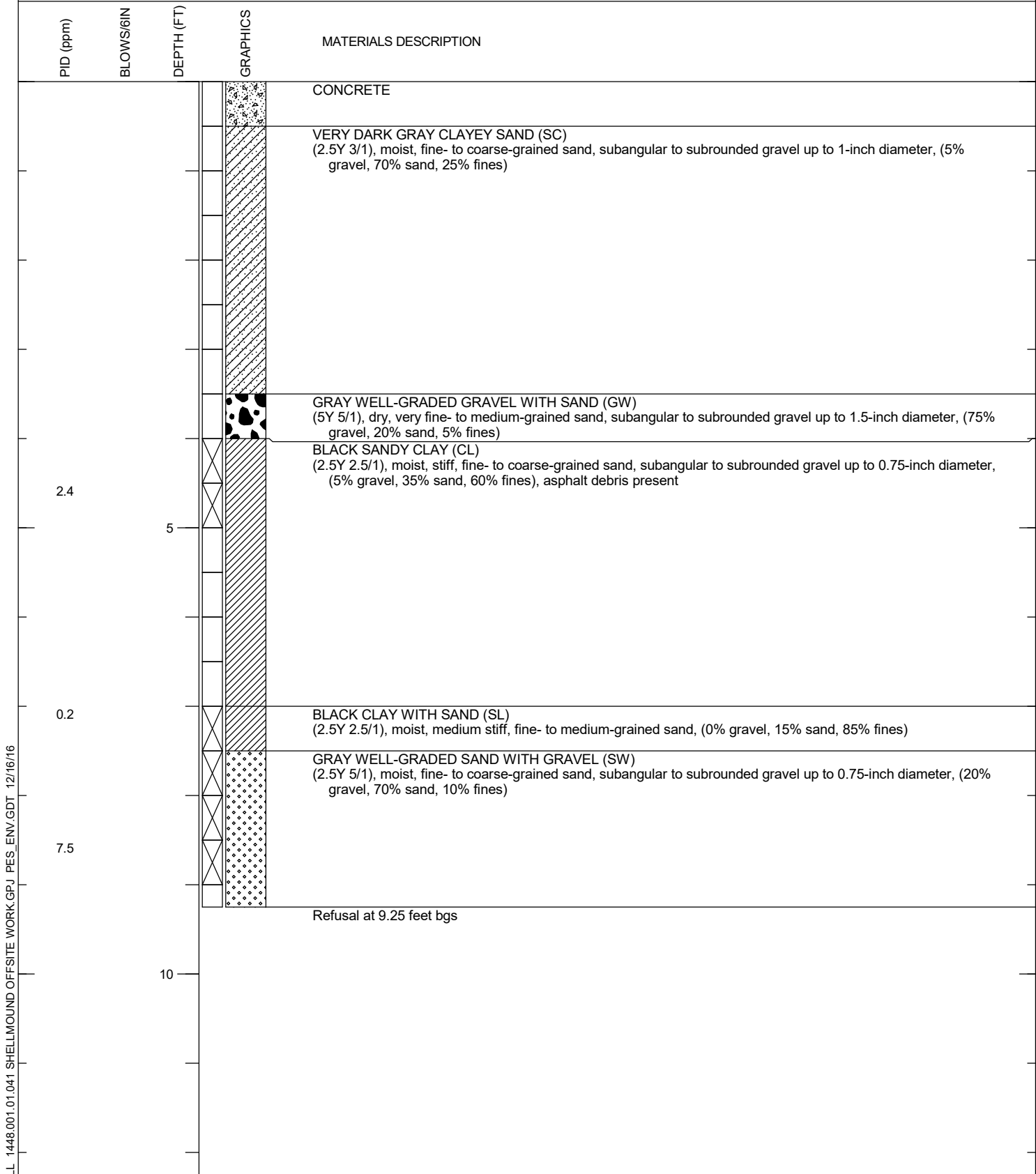
| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|--|
| | | | | CONCRETE |
| | | | | STRONG BROWN CLAYEY SAND (SC) (7.5YR 4/6), moist, fine- to coarse-grained sand, subangular to subrounded gravel up to 1-inch diameter, (5% gravel, 35% sand, 60% fines) |
| | | | | VERY DARK GRAY CLAY WITH SAND (CL) (2.5Y 3/1), moist, stiff, fine- to coarse-grained sand, subangular to subrounded gravel up to 0.75-inch diameter, (5% gravel, 20% sand, 75% fines) |
| | | | | 2-inch thick lens of sand present at 3.5 feet bgs, DARK GRAY (7.5YR 4/1), fine- to medium-grained sand |
| 1.7 | 5 | | | VERY DARK GRAY WELL-GRADED SAND (SW) (2.5Y 3/1), moist, fine- to coarse-grained sand, (0% gravel, 95% sand, 5% fines) |
| 3.2 | | | | |
| 22.4 | | | | Concrete debris (100%) present from 7.25 to 7.5 feet bgs |
| | | | | BLACK CLAY WITH SAND (CL) (2.5Y 2.5/1), moist, stiff, fine- to coarse-grained sand, (0% gravel, 15% sand, 85% fines) |
| 4.7 | | | | Increase in sand to (0% gravel, 25% sand, 75% fines) at 9 feet bgs |
| 60.4 | 10 | | | BLACK SANDY CLAY (SC) (2.5Y 2.5/1), moist, medium stiff, fine- to medium-grained sand, (0% gravel, 40% sand, 60% fines) |
| | | | | Bottom of boring at 10.25 feet bgs |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 10.3 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | Chris Pollio | DATE STARTED | 10/20/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/20/16 |

PLATE

B-10

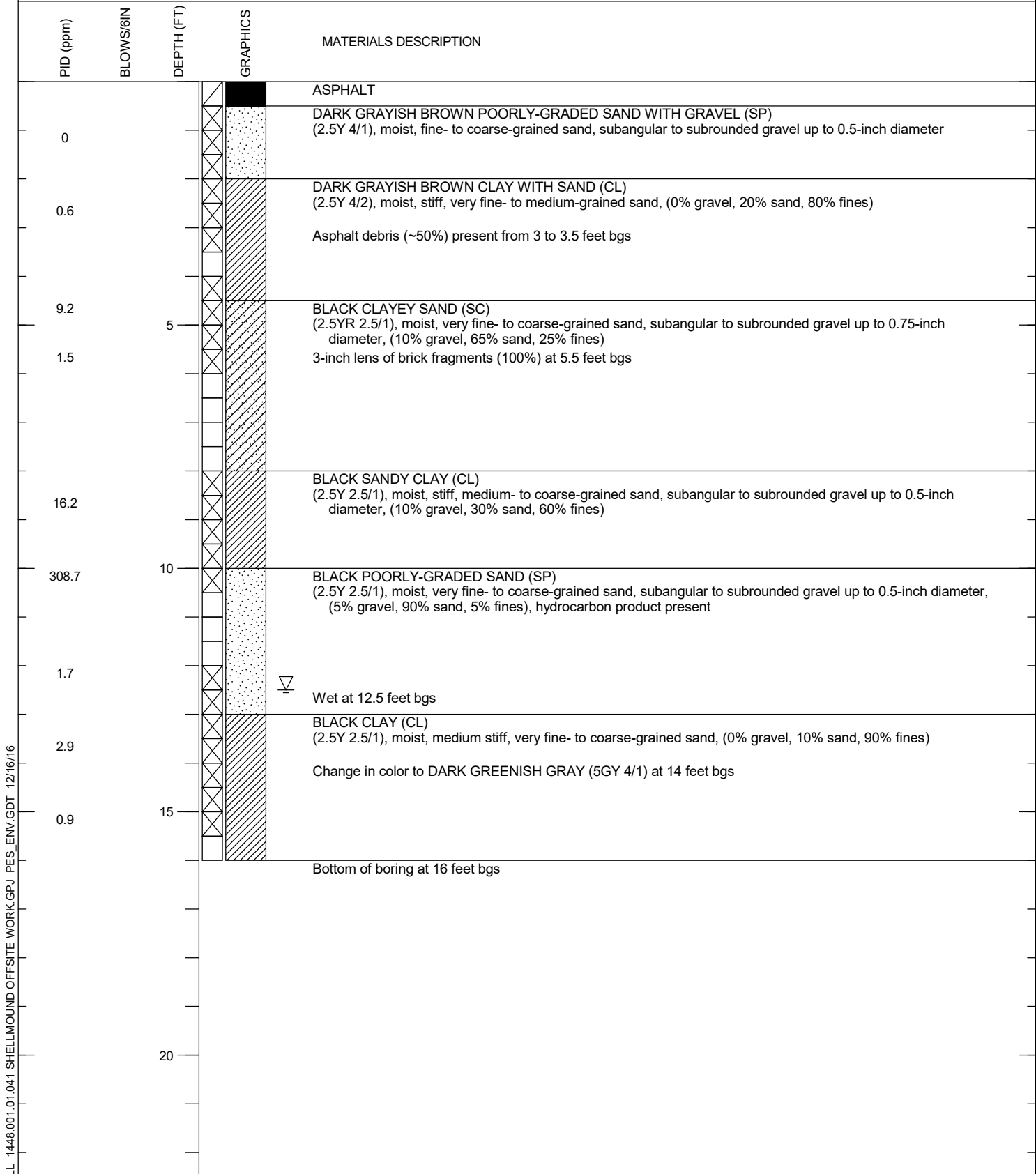


LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 9.3 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | Chris Pollio | DATE STARTED | 10/21/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/21/16 |

PLATE

B-11



LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 16 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | James Phillips | DATE STARTED | 10/20/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/20/16 |

PLATE

B-12



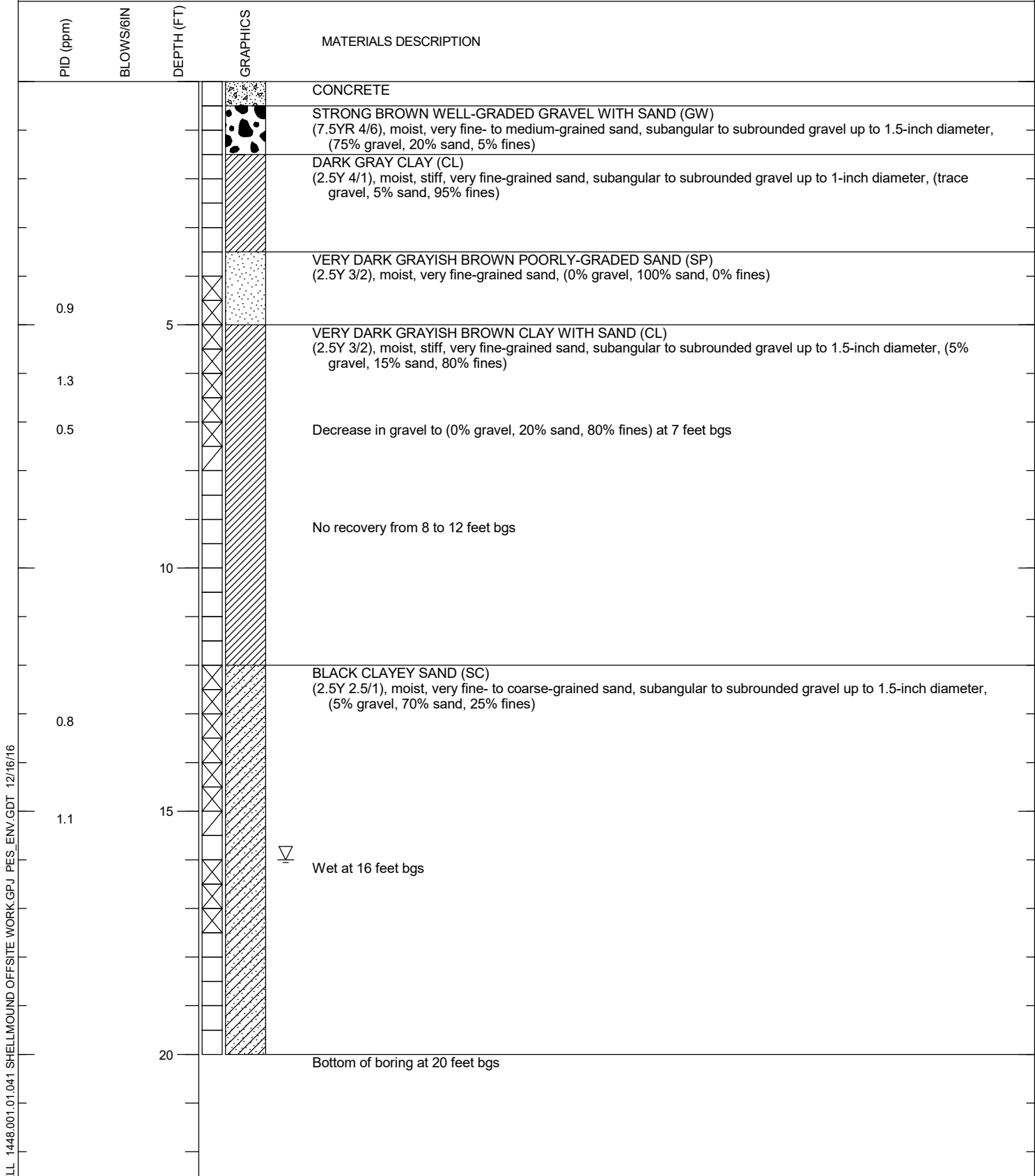
| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|--|
| | | | | CONCRETE |
| | | | | STRONG BROWN WELL-GRADED GRAVEL WITH SAND (GW) (7.5YR 4/6), moist, very fine- to medium-grained sand, subangular to subrounded gravel up to 1.5-inch diameter, (75% gravel, 20% sand, 5% fines) |
| | | | | VERY DARK GRAY CLAY WITH SAND (CL) (2.5Y 3/1), moist, stiff, very fine- to fine-grained sand, subangular to subrounded gravel up to 0.75-inch diameter, (trace gravel, 20% sand, 80% fines), brick and asphalt debris present |
| 3.5 | | 5 | | |
| 0.9 | | | | VERY DARK GRAYISH BROWN POORLY-GRADED SAND (SP) (2.5Y 3/2), moist, very fine-grained sand, (0% gravel, 100% sand, 0% fines) |
| 0.2 | | | | DARK GRAYISH BROWN CLAY (CL) (2.5Y 4/2), moist, stiff, very fine-grained sand, (0% gravel, 10% sand, 90% fines) |
| 0 | | | | Brick fragments (70 to 80%) present from 8.5 to 9 feet bgs |
| | | | | Refusal at 9 feet bgs |
| | | 10 | | |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 9 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | James Phillips | DATE STARTED | 10/19/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/19/16 |

PLATE

B-13



LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 20 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | James Phillips | DATE STARTED | 10/19/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/19/16 |

PLATE

B-14



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|---|
| | | | | CONCRETE |
| | | | | STRONG BROWN CLAY WITH SAND (CL) (7.5YR 4/6), moist, stiff, very fine- to medium-grained sand, subangular to subrounded gravel up to 0.5-inch diameter, (10% gravel, 20% sand, 70% fines) Change in color to DARK GRAY (2.5Y 4/1), subangular to subrounded gravel up to 0.75-inch diameter |
| 1.9 | 5 | | | |
| 0.9 | | | | VERY DARK GRAYISH BROWN SANDY CLAY WITH GRAVEL (CL) (2.5Y 3/2), moist, stiff, very fine- to medium-grained sand, subangular to subrounded gravel up to 0.75-inch diameter, (15% gravel, 25% sand, 60% fines) |
| 3.9 | | | | BLACK CLAY WITH SAND (CL) (2.5Y 2.5/1), moist, medium stiff, very fine- to medium-grained sand, (0% gravel, 20% sand, 80% fines) 3-inch sand lens present at 8 feet bgs, very fine- to medium-grained sand |
| 13.5 | | | | BLACK CLAY (CL) (2.5Y 2.5/1), moist, medium stiff, very fine-grained sand, subangular to subrounded gravel up to 0.5-inch diameter, (trace gravel, 10% sand, 90% fines) |
| 38.6 | 10 | | | |
| 1.2 | | | | |
| 1.8 | | | | |
| 4.2 | | | | Water present at 13.5 feet bgs |
| | | | | BLACK SANDY CLAY (CL) (2.5Y 2.5/1), wet to moist, medium stiff to soft, fine- to medium-grained sand, (0% gravel, 35% sand, 65% fines) |
| | 15 | | | |
| | | | | Subangular to subrounded gravel up to 0.5-inch diameter present, (10% gravel, 30% sand, 60% fines) |
| 4.8 | | | | |
| | | | | BLACK CLAY (CL) (2.5Y 2.5/1), moist, soft, (0% gravel, 0% sand, 100% fines) |
| 22.9 | | | | |
| | 20 | | | Bottom of boring at 20 feet bgs |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 20 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | James Phillips | DATE STARTED | 10/19/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/19/16 |

PLATE

B-15



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|---|
| | | | | CONCRETE |
| | | | | DARK GRAYISH WELL-GRADED GRAVEL (GW) (2.5Y 4/2), moist, (95% gravel, 0% sand, 5% fines) |
| | | | | VERY DARK GRAYISH BROWN SANDY CLAY WITH GRAVEL (CL) (2.5Y 3/2), moist, stiff, very fine- to medium-grained sand, subangular to subrounded gravel up to 0.75-inch diameter, (15% gravel, 25% sand, 60% fines) |
| 0.3 | | 5 | | No recovery from 4.5 to 8 feet bgs |
| 0.5 | | | | BLACK CLAY WITH SAND (CL) (2.5Y 2.5/1), moist, stiff, very fine-grained sand, (0% gravel, 20% sand, 80% fines) |
| | | 10 | | Refusal at 10 feet bgs |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

| | | | |
|-------------|-------------------------------|---------------------|----------------|
| PROJECT | Anton Evolve | DIAMETER OF HOLE | 2.25 inches |
| LOCATION | 6601 - 6603 Shellmound Street | TOTAL DEPTH OF HOLE | 10 feet |
| JOB NUMBER | 1448.001.01.041 | DRILL RIG | Geoprobe 54 LT |
| LOGGED BY | James Phillips | DATE STARTED | 10/19/16 |
| REVIEWED BY | CJB | DATE COMPLETED | 10/19/16 |

PLATE

B-16



| PID (ppm) | BLOWS/6IN | DEPTH (FT) | GRAPHICS | MATERIALS DESCRIPTION |
|-----------|-----------|------------|----------|--|
| | | | | CONCRETE |
| | | | | STRONG BROWN WELL-GRADED GRAVEL WITH SAND (GW) (7.5YR 4/6), moist, very fine- to medium-grained sand, subangular to subrounded gravel up to 1.5-inch diameter, (75% gravel, 20% sand, 5% fines) |
| | | | | VERY DARK GRAYISH BROWN POORLY-GRADED SAND (SP) (2.5Y 3/2), moist, medium-grained sand, (0% gravel, 100% sand, 0% fines) |
| | | | | DARK GRAY CLAY (CL) (2.5Y 4/1), moist, stiff, very fine-grained sand, (0% gravel, 5% sand, 95% fines) |
| | | | | Change in color to BLACK (2.5Y 2.5/1) at 4 feet bgs, very stiff |
| | | 5 | | Trace subangular to subrounded gravel up to 1-inch diameter present at 6 feet bgs |
| | | | | BLACK CLAY (CL) (2.5Y 2.5/1), moist, stiff, (0% gravel, 0% sand, 100% fines) |
| | | | | Refusal at 8 feet bgs, metal debris present at bottom of boring |
| | | 10 | | |

LOG OF BORING/WELL: 1448.001.01.041 SHELLMOUND OFFSITE WORK.GPJ PES_ENV.GDT 12/16/16

PROJECT
LOCATION
JOB NUMBER
LOGGED BY
REVIEWED BY

Anton Evolve
6601 - 6603 Shellmound Street
1448.001.01.041
James Phillips
CJB

DIAMETER OF HOLE
TOTAL DEPTH OF HOLE
DRILL RIG
DATE STARTED
DATE COMPLETED

2.25 inches
8 feet
Geoprobe 54 LT
10/19/16
10/19/16

PLATE

B-17

APPENDIX C

**LABORATORY ANALYTICAL REPORTS AND
CHAIN-OF-CUSTODY DOCUMENTATION
(PROVIDED ON CD-ROM)**

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: 320-22817-1

Client Project/Site: 6701 Shellmound St, Emeryville Air
Revision: 1

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

Attn: Mr. Kyle Flory



Authorized for release by:
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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: 320-22817-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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) |

Case Narrative

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

TestAmerica Job ID: 320-22817-1

Job ID: 320-22817-1

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative 320-22817-1 (Rev. 1)

Revision 1

In the original report methane was reported but it was not a requested analyte. Methane was removed from the report.

Receipt

The samples were received on 10/19/2016 2:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice.

Air - GC VOA

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

Air - GC/MS VOA

Method(s) TO-15: The following samples were diluted due to the abundance of non-target analytes: PSV5-5 (320-22817-12) and PSV5-10 (320-22817-13). Elevated reporting limits (RLs) are provided.

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

Detection Summary

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV1

Lab Sample ID: 320-22817-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 91 | | 22 | | ppb v/v | 4.44 | | TO-15 | Total/NA |
| Trichloroethene | 4.2 | | 1.8 | | ppb v/v | 4.44 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 10 | | 0.90 | | % v/v | 1.79 | | D1946 | Total/NA |
| Oxygen | 4.8 | | 0.36 | | % v/v | 1.79 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 220 | | 53 | | ug/m3 | 4.44 | | TO-15 | Total/NA |
| Trichloroethene | 23 | | 9.5 | | ug/m3 | 4.44 | | TO-15 | Total/NA |

Client Sample ID: SSV2

Lab Sample ID: 320-22817-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 110 | | 22 | | ppb v/v | 4.44 | | TO-15 | Total/NA |
| Benzene | 2.3 | | 1.8 | | ppb v/v | 4.44 | | TO-15 | Total/NA |
| Tetrachloroethene | 58 | | 1.8 | | ppb v/v | 4.44 | | TO-15 | Total/NA |
| Toluene | 1.9 | | 1.8 | | ppb v/v | 4.44 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane | 7.3 | | 1.3 | | ppb v/v | 4.44 | | TO-15 | Total/NA |
| Trichloroethene | 3.4 | | 1.8 | | ppb v/v | 4.44 | | TO-15 | Total/NA |
| Helium | 0.27 | | 0.19 | | % v/v | 1.94 | | D1946 | Total/NA |
| Oxygen | 19 | | 0.39 | | % v/v | 1.94 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 250 | | 53 | | ug/m3 | 4.44 | | TO-15 | Total/NA |
| Benzene | 7.3 | | 5.7 | | ug/m3 | 4.44 | | TO-15 | Total/NA |
| Tetrachloroethene | 400 | | 12 | | ug/m3 | 4.44 | | TO-15 | Total/NA |
| Toluene | 7.1 | | 6.7 | | ug/m3 | 4.44 | | TO-15 | Total/NA |
| 1,1,1-Trichloroethane | 40 | | 7.3 | | ug/m3 | 4.44 | | TO-15 | Total/NA |
| Trichloroethene | 18 | | 9.5 | | ug/m3 | 4.44 | | TO-15 | Total/NA |

Client Sample ID: SSV3

Lab Sample ID: 320-22817-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 39 | | 7.6 | | ppb v/v | 1.51 | | TO-15 | Total/NA |
| Benzene | 5.6 | | 0.60 | | ppb v/v | 1.51 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 2.8 | | 1.2 | | ppb v/v | 1.51 | | TO-15 | Total/NA |
| Toluene | 1.4 | | 0.60 | | ppb v/v | 1.51 | | TO-15 | Total/NA |
| m,p-Xylene | 1.5 | | 1.2 | | ppb v/v | 1.51 | | TO-15 | Total/NA |
| o-Xylene | 0.61 | | 0.60 | | ppb v/v | 1.51 | | TO-15 | Total/NA |
| Helium | 0.52 | | 0.20 | | % v/v | 1.96 | | D1946 | Total/NA |
| Oxygen | 13 | | 0.39 | | % v/v | 1.96 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 92 | | 18 | | ug/m3 | 1.51 | | TO-15 | Total/NA |
| Benzene | 18 | | 1.9 | | ug/m3 | 1.51 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 8.3 | | 3.6 | | ug/m3 | 1.51 | | TO-15 | Total/NA |
| Toluene | 5.1 | | 2.3 | | ug/m3 | 1.51 | | TO-15 | Total/NA |
| m,p-Xylene | 6.4 | | 5.2 | | ug/m3 | 1.51 | | TO-15 | Total/NA |
| o-Xylene | 2.6 | | 2.6 | | ug/m3 | 1.51 | | TO-15 | Total/NA |

Client Sample ID: SSV4

Lab Sample ID: 320-22817-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|---------|---------|---|--------|-----------|
| Acetone | 310 | | 64 | | ppb v/v | 12.7 | | 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: 320-22817-1

Client Sample ID: SSV4 (Continued)

Lab Sample ID: 320-22817-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Chloroform | 6.7 | | 3.8 | | ppb v/v | 12.7 | | TO-15 | Total/NA |
| Helium | 0.37 | | 0.20 | | % v/v | 1.98 | | D1946 | Total/NA |
| Oxygen | 13 | | 0.40 | | % v/v | 1.98 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 750 | | 150 | | ug/m3 | 12.7 | | TO-15 | Total/NA |
| Chloroform | 33 | | 19 | | ug/m3 | 12.7 | | TO-15 | Total/NA |

Client Sample ID: SSV5

Lab Sample ID: 320-22817-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 65 | | 10 | | ppb v/v | 2.05 | | TO-15 | Total/NA |
| Benzene | 1.1 | | 0.82 | | ppb v/v | 2.05 | | TO-15 | Total/NA |
| Carbon disulfide | 7.9 | | 1.6 | | ppb v/v | 2.05 | | TO-15 | Total/NA |
| Toluene | 1.2 | | 0.82 | | ppb v/v | 2.05 | | TO-15 | Total/NA |
| Trichloroethene | 3.1 | | 0.82 | | ppb v/v | 2.05 | | TO-15 | Total/NA |
| m,p-Xylene | 1.7 | | 1.6 | | ppb v/v | 2.05 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 2.1 | | 1.0 | | % v/v | 2.05 | | D1946 | Total/NA |
| Helium | 0.41 | | 0.21 | | % v/v | 2.05 | | D1946 | Total/NA |
| Oxygen | 15 | | 0.41 | | % v/v | 2.05 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 160 | | 24 | | ug/m3 | 2.05 | | TO-15 | Total/NA |
| Benzene | 3.6 | | 2.6 | | ug/m3 | 2.05 | | TO-15 | Total/NA |
| Carbon disulfide | 25 | | 5.1 | | ug/m3 | 2.05 | | TO-15 | Total/NA |
| Toluene | 4.4 | | 3.1 | | ug/m3 | 2.05 | | TO-15 | Total/NA |
| Trichloroethene | 17 | | 4.4 | | ug/m3 | 2.05 | | TO-15 | Total/NA |
| m,p-Xylene | 7.3 | | 7.1 | | ug/m3 | 2.05 | | TO-15 | Total/NA |

Client Sample ID: SSV6

Lab Sample ID: 320-22817-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 50 | | 10 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| Benzene | 1.0 | | 0.80 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 4.5 | | 1.6 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| Carbon disulfide | 87 | | 1.6 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| Chloroform | 3.6 | | 0.60 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| Ethylbenzene | 0.82 | | 0.80 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| Toluene | 4.8 | | 0.80 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| Trichloroethene | 37 | | 0.80 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| m,p-Xylene | 2.7 | | 1.6 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| o-Xylene | 0.93 | | 0.80 | | ppb v/v | 1.99 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 2.9 | | 1.0 | | % v/v | 1.99 | | D1946 | Total/NA |
| Helium | 3.1 | | 0.20 | | % v/v | 1.99 | | D1946 | Total/NA |
| Oxygen | 18 | | 0.40 | | % v/v | 1.99 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 120 | | 24 | | ug/m3 | 1.99 | | TO-15 | Total/NA |
| Benzene | 3.3 | | 2.5 | | ug/m3 | 1.99 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 13 | | 4.7 | | ug/m3 | 1.99 | | TO-15 | Total/NA |
| Carbon disulfide | 270 | | 5.0 | | ug/m3 | 1.99 | | TO-15 | Total/NA |
| Chloroform | 18 | | 2.9 | | ug/m3 | 1.99 | | TO-15 | Total/NA |
| Ethylbenzene | 3.6 | | 3.5 | | ug/m3 | 1.99 | | 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: 320-22817-1

Client Sample ID: SSV6 (Continued)

Lab Sample ID: 320-22817-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| Toluene | 18 | | 3.0 | | ug/m3 | 1.99 | | TO-15 | Total/NA |
| Trichloroethene | 200 | | 4.3 | | ug/m3 | 1.99 | | TO-15 | Total/NA |
| m,p-Xylene | 12 | | 6.9 | | ug/m3 | 1.99 | | TO-15 | Total/NA |
| o-Xylene | 4.0 | | 3.5 | | ug/m3 | 1.99 | | TO-15 | Total/NA |

Client Sample ID: SSV7

Lab Sample ID: 320-22817-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 1200 | | 240 | | ppb v/v | 47.3 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 35 | | 19 | | ppb v/v | 47.3 | | TO-15 | Total/NA |
| Oxygen | 3.6 | | 0.38 | | % v/v | 1.89 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 2800 | | 560 | | ug/m3 | 47.3 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 140 | | 78 | | ug/m3 | 47.3 | | TO-15 | Total/NA |

Client Sample ID: SSV8

Lab Sample ID: 320-22817-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 200 | | 26 | | ppb v/v | 5.13 | | TO-15 | Total/NA |
| Benzene | 4.7 | | 2.1 | | ppb v/v | 5.13 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 4.3 | | 4.1 | | ppb v/v | 5.13 | | TO-15 | Total/NA |
| Toluene | 3.0 | | 2.1 | | ppb v/v | 5.13 | | TO-15 | Total/NA |
| 1,4-Dioxane | 7.6 | | 4.1 | | ppb v/v | 5.13 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 3.8 | | 1.0 | | % v/v | 2.05 | | D1946 | Total/NA |
| Oxygen | 7.9 | | 0.41 | | % v/v | 2.05 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 480 | | 61 | | ug/m3 | 5.13 | | TO-15 | Total/NA |
| Benzene | 15 | | 6.6 | | ug/m3 | 5.13 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 13 | | 12 | | ug/m3 | 5.13 | | TO-15 | Total/NA |
| Toluene | 11 | | 7.7 | | ug/m3 | 5.13 | | TO-15 | Total/NA |
| 1,4-Dioxane | 27 | | 15 | | ug/m3 | 5.13 | | TO-15 | Total/NA |

Client Sample ID: SSV9

Lab Sample ID: 320-22817-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Benzene | 3.0 | | 1.0 | | ppb v/v | 2.61 | | TO-15 | Total/NA |
| Carbon disulfide | 3.5 | | 2.1 | | ppb v/v | 2.61 | | TO-15 | Total/NA |
| Chloroform | 3.4 | | 0.78 | | ppb v/v | 2.61 | | TO-15 | Total/NA |
| Toluene | 1.8 | | 1.0 | | ppb v/v | 2.61 | | TO-15 | Total/NA |
| Trichloroethene | 2.3 | | 1.0 | | ppb v/v | 2.61 | | TO-15 | Total/NA |
| m,p-Xylene | 2.9 | | 2.1 | | ppb v/v | 2.61 | | TO-15 | Total/NA |
| o-Xylene | 1.1 | | 1.0 | | ppb v/v | 2.61 | | TO-15 | Total/NA |
| Acetone - DL | 160 | | 25 | | ppb v/v | 5.09 | | TO-15 | Total/NA |
| Oxygen | 13 | | 0.41 | | % v/v | 2.04 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Benzene | 9.6 | | 3.3 | | ug/m3 | 2.61 | | TO-15 | Total/NA |
| Carbon disulfide | 11 | | 6.5 | | ug/m3 | 2.61 | | TO-15 | Total/NA |
| Chloroform | 16 | | 3.8 | | ug/m3 | 2.61 | | TO-15 | Total/NA |
| Toluene | 6.7 | | 3.9 | | ug/m3 | 2.61 | | TO-15 | Total/NA |
| Trichloroethene | 12 | | 5.6 | | ug/m3 | 2.61 | | 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: 320-22817-1

Client Sample ID: SSV9 (Continued)

Lab Sample ID: 320-22817-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| m,p-Xylene | 13 | | 9.1 | | ug/m3 | 2.61 | | TO-15 | Total/NA |
| o-Xylene | 4.8 | | 4.5 | | ug/m3 | 2.61 | | TO-15 | Total/NA |
| Acetone - DL | 380 | | 60 | | ug/m3 | 5.09 | | TO-15 | Total/NA |

Client Sample ID: SSV10

Lab Sample ID: 320-22817-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 55 | | 11 | | ppb v/v | 2.14 | | TO-15 | Total/NA |
| Benzene | 1.5 | | 0.86 | | ppb v/v | 2.14 | | TO-15 | Total/NA |
| Chloroform | 1.3 | | 0.64 | | ppb v/v | 2.14 | | TO-15 | Total/NA |
| Toluene | 0.97 | | 0.86 | | ppb v/v | 2.14 | | TO-15 | Total/NA |
| Helium | 0.22 | | 0.21 | | % v/v | 2.14 | | D1946 | Total/NA |
| Oxygen | 20 | | 0.43 | | % v/v | 2.14 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 130 | | 25 | | ug/m3 | 2.14 | | TO-15 | Total/NA |
| Benzene | 4.6 | | 2.7 | | ug/m3 | 2.14 | | TO-15 | Total/NA |
| Chloroform | 6.5 | | 3.1 | | ug/m3 | 2.14 | | TO-15 | Total/NA |
| Toluene | 3.6 | | 3.2 | | ug/m3 | 2.14 | | TO-15 | Total/NA |

Client Sample ID: SSV11

Lab Sample ID: 320-22817-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 120 | | 31 | | ppb v/v | 6.2 | | TO-15 | Total/NA |
| Benzene | 2.8 | | 2.5 | | ppb v/v | 6.2 | | TO-15 | Total/NA |
| Trichloroethene | 14 | | 2.5 | | ppb v/v | 6.2 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 3.3 | | 0.99 | | % v/v | 1.98 | | D1946 | Total/NA |
| Oxygen | 14 | | 0.40 | | % v/v | 1.98 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 280 | | 74 | | ug/m3 | 6.2 | | TO-15 | Total/NA |
| Benzene | 9.0 | | 7.9 | | ug/m3 | 6.2 | | TO-15 | Total/NA |
| Trichloroethene | 74 | | 13 | | ug/m3 | 6.2 | | TO-15 | Total/NA |

Client Sample ID: PSV5-5

Lab Sample ID: 320-22817-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 200 | | 100 | | ppb v/v | 20 | | TO-15 | Total/NA |
| Benzene | 33 | | 8.0 | | ppb v/v | 20 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 110 | | 16 | | ppb v/v | 20 | | TO-15 | Total/NA |
| Carbon disulfide | 31 | | 16 | | ppb v/v | 20 | | TO-15 | Total/NA |
| Ethylbenzene | 8.0 | | 8.0 | | ppb v/v | 20 | | TO-15 | Total/NA |
| Toluene | 48 | | 8.0 | | ppb v/v | 20 | | TO-15 | Total/NA |
| m,p-Xylene | 34 | | 16 | | ppb v/v | 20 | | TO-15 | Total/NA |
| o-Xylene | 8.3 | | 8.0 | | ppb v/v | 20 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 3.6 | | 1.0 | | % v/v | 2 | | D1946 | Total/NA |
| Oxygen | 2.4 | | 0.40 | | % v/v | 2 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 490 | | 240 | | ug/m3 | 20 | | TO-15 | Total/NA |
| Benzene | 100 | | 26 | | ug/m3 | 20 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 310 | | 47 | | ug/m3 | 20 | | TO-15 | Total/NA |
| Carbon disulfide | 95 | | 50 | | ug/m3 | 20 | | 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: 320-22817-1

Client Sample ID: PSV5-5 (Continued)

Lab Sample ID: 320-22817-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------|--------|-----------|----|-----|-------|---------|---|--------|-----------|
| Ethylbenzene | 35 | | 35 | | ug/m3 | 20 | | TO-15 | Total/NA |
| Toluene | 180 | | 30 | | ug/m3 | 20 | | TO-15 | Total/NA |
| m,p-Xylene | 150 | | 69 | | ug/m3 | 20 | | TO-15 | Total/NA |
| o-Xylene | 36 | | 35 | | ug/m3 | 20 | | TO-15 | Total/NA |

Client Sample ID: PSV5-10

Lab Sample ID: 320-22817-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 130 | | 120 | | ppb v/v | 24.6 | | TO-15 | Total/NA |
| Benzene | 58 | | 9.8 | | ppb v/v | 24.6 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 62 | | 20 | | ppb v/v | 24.6 | | TO-15 | Total/NA |
| Carbon disulfide | 85 | | 20 | | ppb v/v | 24.6 | | TO-15 | Total/NA |
| Ethylbenzene | 12 | | 9.8 | | ppb v/v | 24.6 | | TO-15 | Total/NA |
| Toluene | 68 | | 9.8 | | ppb v/v | 24.6 | | TO-15 | Total/NA |
| m,p-Xylene | 44 | | 20 | | ppb v/v | 24.6 | | TO-15 | Total/NA |
| o-Xylene | 16 | | 9.8 | | ppb v/v | 24.6 | | TO-15 | Total/NA |
| Oxygen | 3.9 | | 0.39 | | % v/v | 1.97 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 310 | | 290 | | ug/m3 | 24.6 | | TO-15 | Total/NA |
| Benzene | 180 | | 31 | | ug/m3 | 24.6 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 180 | | 58 | | ug/m3 | 24.6 | | TO-15 | Total/NA |
| Carbon disulfide | 270 | | 61 | | ug/m3 | 24.6 | | TO-15 | Total/NA |
| Ethylbenzene | 54 | | 43 | | ug/m3 | 24.6 | | TO-15 | Total/NA |
| Toluene | 260 | | 37 | | ug/m3 | 24.6 | | TO-15 | Total/NA |
| m,p-Xylene | 190 | | 85 | | ug/m3 | 24.6 | | TO-15 | Total/NA |
| o-Xylene | 69 | | 43 | | ug/m3 | 24.6 | | 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: 320-22817-1

Client Sample ID: SSV1

Date Collected: 10/18/16 04:21

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

Lab Sample ID: 320-22817-1

Matrix: Air

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 91 | | 22 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Benzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Benzyl chloride | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Bromodichloromethane | ND | | 1.3 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Bromoform | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Bromomethane | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 2-Butanone (MEK) | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Carbon disulfide | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Carbon tetrachloride | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Chlorobenzene | ND | | 1.3 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Dibromochloromethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Chloroethane | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Chloroform | ND | | 1.3 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Chloromethane | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dibromoethane (EDB) | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,3-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,4-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Dichlorodifluoromethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,1-Dichloroethane | ND | | 1.3 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichloroethane | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,1-Dichloroethene | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| cis-1,2-Dichloroethene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| trans-1,2-Dichloroethene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichloropropane | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Ethylbenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 4-Ethyltoluene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Hexachlorobutadiene | ND | | 8.9 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 2-Hexanone | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Methylene Chloride | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Styrene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Tetrachloroethene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Toluene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,2,4-Trichlorobenzene | ND | | 8.9 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,1,1-Trichloroethane | ND | | 1.3 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,1,2-Trichloroethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Trichloroethene | 4.2 | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,4-Dioxane | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Trichlorofluoromethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,2,4-Trimethylbenzene | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| 1,3,5-Trimethylbenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Vinyl acetate | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV1

Lab Sample ID: 320-22817-1

Date Collected: 10/18/16 04:21

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| m,p-Xylene | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| o-Xylene | ND | | 1.8 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Naphthalene | ND | | 3.6 | | ppb v/v | | | 10/20/16 04:35 | 4.44 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 220 | | 53 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Benzene | ND | | 5.7 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Benzyl chloride | ND | | 18 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Bromodichloromethane | ND | | 8.9 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Bromoform | ND | | 18 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Bromomethane | ND | | 14 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 2-Butanone (MEK) | ND | | 10 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Carbon disulfide | ND | | 11 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Carbon tetrachloride | ND | | 22 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Chlorobenzene | ND | | 6.1 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Dibromochloromethane | ND | | 15 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Chloroethane | ND | | 9.4 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Chloroform | ND | | 6.5 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Chloromethane | ND | | 7.3 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dibromoethane (EDB) | ND | | 27 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,3-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,4-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Dichlorodifluoromethane | ND | | 8.8 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,1-Dichloroethane | ND | | 5.4 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichloroethane | ND | | 14 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,1-Dichloroethene | ND | | 14 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| cis-1,2-Dichloroethene | ND | | 7.0 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| trans-1,2-Dichloroethene | ND | | 7.0 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichloropropane | ND | | 8.2 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| cis-1,3-Dichloropropene | ND | | 8.1 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| trans-1,3-Dichloropropene | ND | | 8.1 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 12 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Ethylbenzene | ND | | 7.7 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 4-Ethyltoluene | ND | | 8.7 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Hexachlorobutadiene | ND | | 95 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 2-Hexanone | ND | | 7.3 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Methylene Chloride | ND | | 6.2 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 7.3 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Styrene | ND | | 7.6 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,1,2,2-Tetrachloroethane | ND | | 12 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Tetrachloroethene | ND | | 12 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Toluene | ND | | 6.7 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,2,4-Trichlorobenzene | ND | | 66 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,1,1-Trichloroethane | ND | | 7.3 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,1,2-Trichloroethane | ND | | 9.7 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Trichloroethene | 23 | | 9.5 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,4-Dioxane | ND | | 13 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV1

Lab Sample ID: 320-22817-1

Date Collected: 10/18/16 04:21

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 10 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 14 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,2,4-Trimethylbenzene | ND | | 17 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| 1,3,5-Trimethylbenzene | ND | | 8.7 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Vinyl acetate | ND | | 13 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Vinyl chloride | ND | | 4.5 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| m,p-Xylene | ND | | 15 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| o-Xylene | ND | | 7.7 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Naphthalene | ND | | 19 | | ug/m3 | | | 10/20/16 04:35 | 4.44 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | | | 10/20/16 04:35 | 4.44 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 | | | | | 10/20/16 04:35 | 4.44 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | | 10/20/16 04:35 | 4.44 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 10 | | 0.90 | | % v/v | | | 10/22/16 17:29 | 1.79 |
| Helium | ND | | 0.18 | | % v/v | | | 10/22/16 17:29 | 1.79 |
| Oxygen | 4.8 | | 0.36 | | % v/v | | | 10/22/16 17:29 | 1.79 |

Client Sample ID: SSV2

Lab Sample ID: 320-22817-2

Date Collected: 10/18/16 04:39

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 110 | | 22 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Benzene | 2.3 | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Benzyl chloride | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Bromodichloromethane | ND | | 1.3 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Bromoform | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Bromomethane | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 2-Butanone (MEK) | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Carbon disulfide | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Carbon tetrachloride | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Chlorobenzene | ND | | 1.3 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Dibromochloromethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Chloroethane | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Chloroform | ND | | 1.3 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Chloromethane | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dibromoethane (EDB) | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,3-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,4-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Dichlorodifluoromethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,1-Dichloroethane | ND | | 1.3 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichloroethane | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV2

Lab Sample ID: 320-22817-2

Date Collected: 10/18/16 04:39

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| cis-1,2-Dichloroethene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| trans-1,2-Dichloroethene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichloropropane | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Ethylbenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 4-Ethyltoluene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Hexachlorobutadiene | ND | | 8.9 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 2-Hexanone | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Methylene Chloride | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Styrene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Tetrachloroethene | 58 | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Toluene | 1.9 | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,2,4-Trichlorobenzene | ND | | 8.9 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,1,1-Trichloroethane | 7.3 | | 1.3 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,1,2-Trichloroethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Trichloroethene | 3.4 | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,4-Dioxane | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Trichlorofluoromethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,2,4-Trimethylbenzene | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| 1,3,5-Trimethylbenzene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Vinyl acetate | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Vinyl chloride | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| m,p-Xylene | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| o-Xylene | ND | | 1.8 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Naphthalene | ND | | 3.6 | | ppb v/v | | | 10/20/16 05:25 | 4.44 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 250 | | 53 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Benzene | 7.3 | | 5.7 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Benzyl chloride | ND | | 18 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Bromodichloromethane | ND | | 8.9 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Bromoform | ND | | 18 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Bromomethane | ND | | 14 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 2-Butanone (MEK) | ND | | 10 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Carbon disulfide | ND | | 11 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Carbon tetrachloride | ND | | 22 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Chlorobenzene | ND | | 6.1 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Dibromochloromethane | ND | | 15 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Chloroethane | ND | | 9.4 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Chloroform | ND | | 6.5 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Chloromethane | ND | | 7.3 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dibromoethane (EDB) | ND | | 27 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV2

Lab Sample ID: 320-22817-2

Date Collected: 10/18/16 04:39

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,4-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Dichlorodifluoromethane | ND | | 8.8 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,1-Dichloroethane | ND | | 5.4 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichloroethane | ND | | 14 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,1-Dichloroethene | ND | | 14 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| cis-1,2-Dichloroethene | ND | | 7.0 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| trans-1,2-Dichloroethene | ND | | 7.0 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichloropropane | ND | | 8.2 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| cis-1,3-Dichloropropene | ND | | 8.1 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| trans-1,3-Dichloropropene | ND | | 8.1 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 12 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Ethylbenzene | ND | | 7.7 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 4-Ethyltoluene | ND | | 8.7 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Hexachlorobutadiene | ND | | 95 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 2-Hexanone | ND | | 7.3 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Methylene Chloride | ND | | 6.2 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 7.3 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Styrene | ND | | 7.6 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,1,2,2-Tetrachloroethane | ND | | 12 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Tetrachloroethene | 400 | | 12 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Toluene | 7.1 | | 6.7 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,2,4-Trichlorobenzene | ND | | 66 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,1,1-Trichloroethane | 40 | | 7.3 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,1,2-Trichloroethane | ND | | 9.7 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Trichloroethene | 18 | | 9.5 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,4-Dioxane | ND | | 13 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Trichlorofluoromethane | ND | | 10 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 14 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,2,4-Trimethylbenzene | ND | | 17 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| 1,3,5-Trimethylbenzene | ND | | 8.7 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Vinyl acetate | ND | | 13 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Vinyl chloride | ND | | 4.5 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| m,p-Xylene | ND | | 15 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| o-Xylene | ND | | 7.7 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |
| Naphthalene | ND | | 19 | | ug/m3 | | | 10/20/16 05:25 | 4.44 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | 10/20/16 05:25 | 4.44 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 70 - 130 | | 10/20/16 05:25 | 4.44 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 10/20/16 05:25 | 4.44 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.97 | | % v/v | | | 10/22/16 17:37 | 1.94 |
| Helium | 0.27 | | 0.19 | | % v/v | | | 10/22/16 17:37 | 1.94 |
| Oxygen | 19 | | 0.39 | | % v/v | | | 10/22/16 17:37 | 1.94 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV3

Lab Sample ID: 320-22817-3

Date Collected: 10/18/16 04:49

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Acetone | 39 | | 7.6 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Benzene | 5.6 | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Benzyl chloride | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Bromodichloromethane | ND | | 0.45 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Bromoform | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Bromomethane | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 2-Butanone (MEK) | 2.8 | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Carbon disulfide | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Carbon tetrachloride | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Chlorobenzene | ND | | 0.45 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Dibromochloromethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Chloroethane | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Chloroform | ND | | 0.45 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Chloromethane | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dibromoethane (EDB) | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichlorobenzene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,3-Dichlorobenzene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,4-Dichlorobenzene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Dichlorodifluoromethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,1-Dichloroethane | ND | | 0.45 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichloroethane | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,1-Dichloroethene | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| cis-1,2-Dichloroethene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| trans-1,2-Dichloroethene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichloropropane | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| cis-1,3-Dichloropropene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| trans-1,3-Dichloropropene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Ethylbenzene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 4-Ethyltoluene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Hexachlorobutadiene | ND | | 3.0 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 2-Hexanone | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Methylene Chloride | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Styrene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Tetrachloroethene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Toluene | 1.4 | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,2,4-Trichlorobenzene | ND | | 3.0 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,1,1-Trichloroethane | ND | | 0.45 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,1,2-Trichloroethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Trichloroethene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,4-Dioxane | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Trichlorofluoromethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,2,4-Trimethylbenzene | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| 1,3,5-Trimethylbenzene | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Vinyl acetate | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV3

Lab Sample ID: 320-22817-3

Date Collected: 10/18/16 04:49

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| m,p-Xylene | 1.5 | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| o-Xylene | 0.61 | | 0.60 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Naphthalene | ND | | 1.2 | | ppb v/v | | | 10/20/16 08:18 | 1.51 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 92 | | 18 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Benzene | 18 | | 1.9 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Benzyl chloride | ND | | 6.3 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Bromodichloromethane | ND | | 3.0 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Bromoform | ND | | 6.2 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Bromomethane | ND | | 4.7 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 2-Butanone (MEK) | 8.3 | | 3.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Carbon disulfide | ND | | 3.8 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Carbon tetrachloride | ND | | 7.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Chlorobenzene | ND | | 2.1 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Dibromochloromethane | ND | | 5.1 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Chloroethane | ND | | 3.2 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Chloroform | ND | | 2.2 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Chloromethane | ND | | 2.5 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dibromoethane (EDB) | ND | | 9.3 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichlorobenzene | ND | | 3.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,3-Dichlorobenzene | ND | | 3.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,4-Dichlorobenzene | ND | | 3.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Dichlorodifluoromethane | ND | | 3.0 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,1-Dichloroethane | ND | | 1.8 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichloroethane | ND | | 4.9 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,1-Dichloroethene | ND | | 4.8 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| cis-1,2-Dichloroethene | ND | | 2.4 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| trans-1,2-Dichloroethene | ND | | 2.4 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichloropropane | ND | | 2.8 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| cis-1,3-Dichloropropene | ND | | 2.7 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| trans-1,3-Dichloropropene | ND | | 2.7 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 4.2 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Ethylbenzene | ND | | 2.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 4-Ethyltoluene | ND | | 3.0 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Hexachlorobutadiene | ND | | 32 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 2-Hexanone | ND | | 2.5 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Methylene Chloride | ND | | 2.1 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2.5 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Styrene | ND | | 2.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.1 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Tetrachloroethene | ND | | 4.1 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Toluene | 5.1 | | 2.3 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,2,4-Trichlorobenzene | ND | | 22 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,1,1-Trichloroethane | ND | | 2.5 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,1,2-Trichloroethane | ND | | 3.3 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Trichloroethene | ND | | 3.2 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,4-Dioxane | ND | | 4.4 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV3

Lab Sample ID: 320-22817-3

Date Collected: 10/18/16 04:49

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 3.4 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,2,4-Trimethylbenzene | ND | | 5.9 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| 1,3,5-Trimethylbenzene | ND | | 3.0 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Vinyl acetate | ND | | 4.3 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Vinyl chloride | ND | | 1.5 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| m,p-Xylene | 6.4 | | 5.2 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| o-Xylene | 2.6 | | 2.6 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Naphthalene | ND | | 6.3 | | ug/m3 | | | 10/20/16 08:18 | 1.51 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | | 10/20/16 08:18 | 1.51 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 70 - 130 | | | | | 10/20/16 08:18 | 1.51 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 10/20/16 08:18 | 1.51 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.98 | | % v/v | | | 10/22/16 17:51 | 1.96 |
| Helium | 0.52 | | 0.20 | | % v/v | | | 10/22/16 17:51 | 1.96 |
| Oxygen | 13 | | 0.39 | | % v/v | | | 10/22/16 17:51 | 1.96 |

Client Sample ID: SSV4

Lab Sample ID: 320-22817-4

Date Collected: 10/18/16 05:10

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 310 | | 64 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Benzene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Benzyl chloride | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Bromodichloromethane | ND | | 3.8 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Bromoform | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Bromomethane | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 2-Butanone (MEK) | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Carbon disulfide | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Carbon tetrachloride | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Chlorobenzene | ND | | 3.8 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Dibromochloromethane | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Chloroethane | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Chloroform | 6.7 | | 3.8 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Chloromethane | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dibromoethane (EDB) | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichlorobenzene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,3-Dichlorobenzene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,4-Dichlorobenzene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Dichlorodifluoromethane | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,1-Dichloroethane | ND | | 3.8 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichloroethane | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV4

Lab Sample ID: 320-22817-4

Date Collected: 10/18/16 05:10

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| cis-1,2-Dichloroethene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| trans-1,2-Dichloroethene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichloropropane | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| cis-1,3-Dichloropropene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| trans-1,3-Dichloropropene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Ethylbenzene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 4-Ethyltoluene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Hexachlorobutadiene | ND | | 25 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 2-Hexanone | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Methylene Chloride | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Styrene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Tetrachloroethene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Toluene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,2,4-Trichlorobenzene | ND | | 25 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,1,1-Trichloroethane | ND | | 3.8 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,1,2-Trichloroethane | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Trichloroethene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,4-Dioxane | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Trichlorofluoromethane | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,2,4-Trimethylbenzene | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| 1,3,5-Trimethylbenzene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Vinyl acetate | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Vinyl chloride | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| m,p-Xylene | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| o-Xylene | ND | | 5.1 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |
| Naphthalene | ND | | 10 | | ppb v/v | | | 10/20/16 10:59 | 12.7 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Acetone | 750 | | 150 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Benzene | ND | | 16 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Benzyl chloride | ND | | 53 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Bromodichloromethane | ND | | 26 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Bromoform | ND | | 53 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Bromomethane | ND | | 39 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 2-Butanone (MEK) | ND | | 30 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Carbon disulfide | ND | | 32 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Carbon tetrachloride | ND | | 64 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Chlorobenzene | ND | | 18 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Dibromochloromethane | ND | | 43 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Chloroethane | ND | | 27 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Chloroform | 33 | | 19 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Chloromethane | ND | | 21 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dibromoethane (EDB) | ND | | 78 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichlorobenzene | ND | | 31 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV4

Lab Sample ID: 320-22817-4

Date Collected: 10/18/16 05:10

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 31 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,4-Dichlorobenzene | ND | | 31 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Dichlorodifluoromethane | ND | | 25 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,1-Dichloroethane | ND | | 15 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichloroethane | ND | | 41 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,1-Dichloroethene | ND | | 40 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| cis-1,2-Dichloroethene | ND | | 20 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| trans-1,2-Dichloroethene | ND | | 20 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichloropropane | ND | | 23 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| cis-1,3-Dichloropropene | ND | | 23 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| trans-1,3-Dichloropropene | ND | | 23 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 36 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Ethylbenzene | ND | | 22 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 4-Ethyltoluene | ND | | 25 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Hexachlorobutadiene | ND | | 270 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 2-Hexanone | ND | | 21 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Methylene Chloride | ND | | 18 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 21 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Styrene | ND | | 22 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,1,2,2-Tetrachloroethane | ND | | 35 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Tetrachloroethene | ND | | 34 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Toluene | ND | | 19 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,2,4-Trichlorobenzene | ND | | 190 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,1,1-Trichloroethane | ND | | 21 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,1,2-Trichloroethane | ND | | 28 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Trichloroethene | ND | | 27 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,4-Dioxane | ND | | 37 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Trichlorofluoromethane | ND | | 29 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 39 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,2,4-Trimethylbenzene | ND | | 50 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| 1,3,5-Trimethylbenzene | ND | | 25 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Vinyl acetate | ND | | 36 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Vinyl chloride | ND | | 13 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| m,p-Xylene | ND | | 44 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| o-Xylene | ND | | 22 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |
| Naphthalene | ND | | 53 | | ug/m3 | | | 10/20/16 10:59 | 12.7 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | 10/20/16 10:59 | 12.7 |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 70 - 130 | | 10/20/16 10:59 | 12.7 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 10/20/16 10:59 | 12.7 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.99 | | % v/v | | | 10/22/16 18:00 | 1.98 |
| Helium | 0.37 | | 0.20 | | % v/v | | | 10/22/16 18:00 | 1.98 |
| Oxygen | 13 | | 0.40 | | % v/v | | | 10/22/16 18:00 | 1.98 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV5

Lab Sample ID: 320-22817-5

Date Collected: 10/18/16 05:44

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Acetone | 65 | | 10 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Benzene | 1.1 | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Benzyl chloride | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Bromodichloromethane | ND | | 0.62 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Bromoform | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Bromomethane | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 2-Butanone (MEK) | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Carbon disulfide | 7.9 | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Carbon tetrachloride | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Chlorobenzene | ND | | 0.62 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Dibromochloromethane | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Chloroethane | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Chloroform | ND | | 0.62 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Chloromethane | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dibromoethane (EDB) | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichlorobenzene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,3-Dichlorobenzene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,4-Dichlorobenzene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Dichlorodifluoromethane | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,1-Dichloroethane | ND | | 0.62 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichloroethane | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,1-Dichloroethene | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| cis-1,2-Dichloroethene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| trans-1,2-Dichloroethene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichloropropane | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| cis-1,3-Dichloropropene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| trans-1,3-Dichloropropene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Ethylbenzene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 4-Ethyltoluene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Hexachlorobutadiene | ND | | 4.1 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 2-Hexanone | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Methylene Chloride | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Styrene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Tetrachloroethene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Toluene | 1.2 | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,2,4-Trichlorobenzene | ND | | 4.1 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,1,1-Trichloroethane | ND | | 0.62 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,1,2-Trichloroethane | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Trichloroethene | 3.1 | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,4-Dioxane | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Trichlorofluoromethane | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,2,4-Trimethylbenzene | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| 1,3,5-Trimethylbenzene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Vinyl acetate | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV5

Lab Sample ID: 320-22817-5

Date Collected: 10/18/16 05:44

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| m,p-Xylene | 1.7 | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| o-Xylene | ND | | 0.82 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Naphthalene | ND | | 1.6 | | ppb v/v | | | 10/20/16 17:49 | 2.05 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 160 | | 24 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Benzene | 3.6 | | 2.6 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Benzyl chloride | ND | | 8.5 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Bromodichloromethane | ND | | 4.1 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Bromoform | ND | | 8.5 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Bromomethane | ND | | 6.4 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 2-Butanone (MEK) | ND | | 4.8 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Carbon disulfide | 25 | | 5.1 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Carbon tetrachloride | ND | | 10 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Chlorobenzene | ND | | 2.8 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Dibromochloromethane | ND | | 7.0 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Chloroethane | ND | | 4.3 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Chloroform | ND | | 3.0 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Chloromethane | ND | | 3.4 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dibromoethane (EDB) | ND | | 13 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichlorobenzene | ND | | 4.9 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,3-Dichlorobenzene | ND | | 4.9 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,4-Dichlorobenzene | ND | | 4.9 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Dichlorodifluoromethane | ND | | 4.1 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,1-Dichloroethane | ND | | 2.5 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichloroethane | ND | | 6.6 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,1-Dichloroethene | ND | | 6.5 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| cis-1,2-Dichloroethene | ND | | 3.3 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| trans-1,2-Dichloroethene | ND | | 3.3 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichloropropane | ND | | 3.8 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| cis-1,3-Dichloropropene | ND | | 3.7 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| trans-1,3-Dichloropropene | ND | | 3.7 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 5.7 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Ethylbenzene | ND | | 3.6 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 4-Ethyltoluene | ND | | 4.0 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Hexachlorobutadiene | ND | | 44 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 2-Hexanone | ND | | 3.4 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Methylene Chloride | ND | | 2.8 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 3.4 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Styrene | ND | | 3.5 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.6 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Tetrachloroethene | ND | | 5.6 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Toluene | 4.4 | | 3.1 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,2,4-Trichlorobenzene | ND | | 30 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,1,1-Trichloroethane | ND | | 3.4 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,1,2-Trichloroethane | ND | | 4.5 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Trichloroethene | 17 | | 4.4 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,4-Dioxane | ND | | 5.9 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV5

Lab Sample ID: 320-22817-5

Date Collected: 10/18/16 05:44

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 4.6 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.3 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,2,4-Trimethylbenzene | ND | | 8.1 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| 1,3,5-Trimethylbenzene | ND | | 4.0 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Vinyl acetate | ND | | 5.8 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Vinyl chloride | ND | | 2.1 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| m,p-Xylene | 7.3 | | 7.1 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| o-Xylene | ND | | 3.6 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Naphthalene | ND | | 8.6 | | ug/m3 | | | 10/20/16 17:49 | 2.05 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | | | | 10/20/16 17:49 | 2.05 |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 130 | | | | | 10/20/16 17:49 | 2.05 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | | 10/20/16 17:49 | 2.05 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 2.1 | | 1.0 | | % v/v | | | 10/22/16 18:10 | 2.05 |
| Helium | 0.41 | | 0.21 | | % v/v | | | 10/22/16 18:10 | 2.05 |
| Oxygen | 15 | | 0.41 | | % v/v | | | 10/22/16 18:10 | 2.05 |

Client Sample ID: SSV6

Lab Sample ID: 320-22817-6

Date Collected: 10/18/16 06:12

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Acetone | 50 | | 10 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Benzene | 1.0 | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Benzyl chloride | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Bromodichloromethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Bromoform | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Bromomethane | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 2-Butanone (MEK) | 4.5 | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Carbon disulfide | 87 | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Carbon tetrachloride | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Chlorobenzene | ND | | 0.60 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Dibromochloromethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Chloroethane | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Chloroform | 3.6 | | 0.60 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Chloromethane | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dibromoethane (EDB) | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichlorobenzene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,3-Dichlorobenzene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,4-Dichlorobenzene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Dichlorodifluoromethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,1-Dichloroethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichloroethane | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV6

Lab Sample ID: 320-22817-6

Date Collected: 10/18/16 06:12

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| cis-1,2-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| trans-1,2-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichloropropane | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| cis-1,3-Dichloropropene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| trans-1,3-Dichloropropene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Ethylbenzene | 0.82 | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 4-Ethyltoluene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Hexachlorobutadiene | ND | | 4.0 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 2-Hexanone | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Methylene Chloride | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Styrene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Tetrachloroethene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Toluene | 4.8 | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,2,4-Trichlorobenzene | ND | | 4.0 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,1,1-Trichloroethane | ND | | 0.60 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,1,2-Trichloroethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Trichloroethene | 37 | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,4-Dioxane | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Trichlorofluoromethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,2,4-Trimethylbenzene | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| 1,3,5-Trimethylbenzene | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Vinyl acetate | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Vinyl chloride | ND | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| m,p-Xylene | 2.7 | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| o-Xylene | 0.93 | | 0.80 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Naphthalene | ND | | 1.6 | | ppb v/v | | | 10/20/16 18:43 | 1.99 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 120 | | 24 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Benzene | 3.3 | | 2.5 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Benzyl chloride | ND | | 8.2 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Bromodichloromethane | ND | | 4.0 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Bromoform | ND | | 8.2 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Bromomethane | ND | | 6.2 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 2-Butanone (MEK) | 13 | | 4.7 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Carbon disulfide | 270 | | 5.0 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Carbon tetrachloride | ND | | 10 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Chlorobenzene | ND | | 2.7 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Dibromochloromethane | ND | | 6.8 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Chloroethane | ND | | 4.2 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Chloroform | 18 | | 2.9 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Chloromethane | ND | | 3.3 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dibromoethane (EDB) | ND | | 12 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichlorobenzene | ND | | 4.8 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV6

Lab Sample ID: 320-22817-6

Date Collected: 10/18/16 06:12

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 4.8 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,4-Dichlorobenzene | ND | | 4.8 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Dichlorodifluoromethane | ND | | 3.9 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,1-Dichloroethane | ND | | 2.4 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichloroethane | ND | | 6.4 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,1-Dichloroethene | ND | | 6.3 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| cis-1,2-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| trans-1,2-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichloropropane | ND | | 3.7 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| cis-1,3-Dichloropropene | ND | | 3.6 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| trans-1,3-Dichloropropene | ND | | 3.6 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 5.6 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Ethylbenzene | 3.6 | | 3.5 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 4-Ethyltoluene | ND | | 3.9 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Hexachlorobutadiene | ND | | 42 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 2-Hexanone | ND | | 3.3 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Methylene Chloride | ND | | 2.8 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 3.3 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Styrene | ND | | 3.4 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.5 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Tetrachloroethene | ND | | 5.4 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Toluene | 18 | | 3.0 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,2,4-Trichlorobenzene | ND | | 30 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,1,1-Trichloroethane | ND | | 3.3 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,1,2-Trichloroethane | ND | | 4.3 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Trichloroethene | 200 | | 4.3 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,4-Dioxane | ND | | 5.7 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Trichlorofluoromethane | ND | | 4.5 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.1 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,2,4-Trimethylbenzene | ND | | 7.8 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| 1,3,5-Trimethylbenzene | ND | | 3.9 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Vinyl acetate | ND | | 5.6 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Vinyl chloride | ND | | 2.0 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| m,p-Xylene | 12 | | 6.9 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| o-Xylene | 4.0 | | 3.5 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |
| Naphthalene | ND | | 8.3 | | ug/m3 | | | 10/20/16 18:43 | 1.99 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | 10/20/16 18:43 | 1.99 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 | | 10/20/16 18:43 | 1.99 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 10/20/16 18:43 | 1.99 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 2.9 | | 1.0 | | % v/v | | | 10/22/16 18:22 | 1.99 |
| Helium | 3.1 | | 0.20 | | % v/v | | | 10/22/16 18:22 | 1.99 |
| Oxygen | 18 | | 0.40 | | % v/v | | | 10/22/16 18:22 | 1.99 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV7

Lab Sample ID: 320-22817-7

Date Collected: 10/18/16 06:22

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 1200 | | 240 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Benzene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Benzyl chloride | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Bromodichloromethane | ND | | 14 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Bromoform | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Bromomethane | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 2-Butanone (MEK) | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Carbon disulfide | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Carbon tetrachloride | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Chlorobenzene | ND | | 14 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Dibromochloromethane | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Chloroethane | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Chloroform | ND | | 14 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Chloromethane | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dibromoethane (EDB) | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichlorobenzene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,3-Dichlorobenzene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,4-Dichlorobenzene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Dichlorodifluoromethane | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,1-Dichloroethane | ND | | 14 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichloroethane | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,1-Dichloroethene | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| cis-1,2-Dichloroethene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| trans-1,2-Dichloroethene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichloropropane | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| cis-1,3-Dichloropropene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| trans-1,3-Dichloropropene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Ethylbenzene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 4-Ethyltoluene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Hexachlorobutadiene | ND | | 95 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 2-Hexanone | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Methylene Chloride | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 4-Methyl-2-pentanone (MIBK) | 35 | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Styrene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,1,2,2-Tetrachloroethane | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Tetrachloroethene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Toluene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,2,4-Trichlorobenzene | ND | | 95 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,1,1-Trichloroethane | ND | | 14 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,1,2-Trichloroethane | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Trichloroethene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,4-Dioxane | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Trichlorofluoromethane | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,2,4-Trimethylbenzene | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| 1,3,5-Trimethylbenzene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Vinyl acetate | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV7

Lab Sample ID: 320-22817-7

Date Collected: 10/18/16 06:22

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| m,p-Xylene | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| o-Xylene | ND | | 19 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Naphthalene | ND | | 38 | | ppb v/v | | | 10/20/16 19:36 | 47.3 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 2800 | | 560 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Benzene | ND | | 60 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Benzyl chloride | ND | | 200 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Bromodichloromethane | ND | | 95 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Bromoform | ND | | 200 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Bromomethane | ND | | 150 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 2-Butanone (MEK) | ND | | 110 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Carbon disulfide | ND | | 120 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Carbon tetrachloride | ND | | 240 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Chlorobenzene | ND | | 65 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Dibromochloromethane | ND | | 160 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Chloroethane | ND | | 100 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Chloroform | ND | | 69 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Chloromethane | ND | | 78 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dibromoethane (EDB) | ND | | 290 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichlorobenzene | ND | | 110 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,3-Dichlorobenzene | ND | | 110 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,4-Dichlorobenzene | ND | | 110 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Dichlorodifluoromethane | ND | | 94 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,1-Dichloroethane | ND | | 57 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichloroethane | ND | | 150 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,1-Dichloroethene | ND | | 150 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| cis-1,2-Dichloroethene | ND | | 75 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| trans-1,2-Dichloroethene | ND | | 75 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichloropropane | ND | | 87 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| cis-1,3-Dichloropropene | ND | | 86 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| trans-1,3-Dichloropropene | ND | | 86 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 130 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Ethylbenzene | ND | | 82 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 4-Ethyltoluene | ND | | 93 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Hexachlorobutadiene | ND | | 1000 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 2-Hexanone | ND | | 78 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Methylene Chloride | ND | | 66 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 4-Methyl-2-pentanone (MIBK) | 140 | | 78 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Styrene | ND | | 81 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,1,2,2-Tetrachloroethane | ND | | 130 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Tetrachloroethene | ND | | 130 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Toluene | ND | | 71 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,2,4-Trichlorobenzene | ND | | 700 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,1,1-Trichloroethane | ND | | 77 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,1,2-Trichloroethane | ND | | 100 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Trichloroethene | ND | | 100 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,4-Dioxane | ND | | 140 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV7

Lab Sample ID: 320-22817-7

Date Collected: 10/18/16 06:22

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 110 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 140 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,2,4-Trimethylbenzene | ND | | 190 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| 1,3,5-Trimethylbenzene | ND | | 93 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Vinyl acetate | ND | | 130 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Vinyl chloride | ND | | 48 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| m,p-Xylene | ND | | 160 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| o-Xylene | ND | | 82 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Naphthalene | ND | | 200 | | ug/m3 | | | 10/20/16 19:36 | 47.3 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 | | | | | 10/20/16 19:36 | 47.3 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 130 | | | | | 10/20/16 19:36 | 47.3 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | | 10/20/16 19:36 | 47.3 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.95 | | % v/v | | | 10/24/16 13:31 | 1.89 |
| Helium | ND | | 0.19 | | % v/v | | | 10/24/16 13:31 | 1.89 |
| Oxygen | 3.6 | | 0.38 | | % v/v | | | 10/24/16 13:31 | 1.89 |

Client Sample ID: SSV8

Lab Sample ID: 320-22817-8

Date Collected: 10/18/16 07:04

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 200 | | 26 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Benzene | 4.7 | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Benzyl chloride | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Bromodichloromethane | ND | | 1.5 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Bromoform | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Bromomethane | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 2-Butanone (MEK) | 4.3 | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Carbon disulfide | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Carbon tetrachloride | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Chlorobenzene | ND | | 1.5 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Dibromochloromethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Chloroethane | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Chloroform | ND | | 1.5 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Chloromethane | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dibromoethane (EDB) | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichlorobenzene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,3-Dichlorobenzene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,4-Dichlorobenzene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Dichlorodifluoromethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,1-Dichloroethane | ND | | 1.5 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichloroethane | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV8

Lab Sample ID: 320-22817-8

Date Collected: 10/18/16 07:04

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| cis-1,2-Dichloroethene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| trans-1,2-Dichloroethene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichloropropane | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| cis-1,3-Dichloropropene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| trans-1,3-Dichloropropene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Ethylbenzene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 4-Ethyltoluene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Hexachlorobutadiene | ND | | 10 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 2-Hexanone | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Methylene Chloride | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Styrene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Tetrachloroethene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Toluene | 3.0 | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,2,4-Trichlorobenzene | ND | | 10 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,1,1-Trichloroethane | ND | | 1.5 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,1,2-Trichloroethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Trichloroethene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,4-Dioxane | 7.6 | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Trichlorofluoromethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,2,4-Trimethylbenzene | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| 1,3,5-Trimethylbenzene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Vinyl acetate | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Vinyl chloride | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| m,p-Xylene | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| o-Xylene | ND | | 2.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Naphthalene | ND | | 4.1 | | ppb v/v | | | 10/20/16 07:31 | 5.13 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 480 | | 61 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Benzene | 15 | | 6.6 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Benzyl chloride | ND | | 21 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Bromodichloromethane | ND | | 10 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Bromoform | ND | | 21 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Bromomethane | ND | | 16 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 2-Butanone (MEK) | 13 | | 12 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Carbon disulfide | ND | | 13 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Carbon tetrachloride | ND | | 26 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Chlorobenzene | ND | | 7.1 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Dibromochloromethane | ND | | 17 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Chloroethane | ND | | 11 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Chloroform | ND | | 7.5 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Chloromethane | ND | | 8.5 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dibromoethane (EDB) | ND | | 32 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichlorobenzene | ND | | 12 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV8

Lab Sample ID: 320-22817-8

Date Collected: 10/18/16 07:04

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|-----------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 12 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,4-Dichlorobenzene | ND | | 12 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Dichlorodifluoromethane | ND | | 10 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,1-Dichloroethane | ND | | 6.2 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichloroethane | ND | | 17 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,1-Dichloroethene | ND | | 16 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| cis-1,2-Dichloroethene | ND | | 8.1 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| trans-1,2-Dichloroethene | ND | | 8.1 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichloropropane | ND | | 9.5 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| cis-1,3-Dichloropropene | ND | | 9.3 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| trans-1,3-Dichloropropene | ND | | 9.3 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 14 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Ethylbenzene | ND | | 8.9 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 4-Ethyltoluene | ND | | 10 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Hexachlorobutadiene | ND | | 110 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 2-Hexanone | ND | | 8.4 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Methylene Chloride | ND | | 7.1 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 8.4 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Styrene | ND | | 8.7 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,1,2,2-Tetrachloroethane | ND | | 14 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Tetrachloroethene | ND | | 14 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Toluene | 11 | | 7.7 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,2,4-Trichlorobenzene | ND | | 76 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,1,1-Trichloroethane | ND | | 8.4 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,1,2-Trichloroethane | ND | | 11 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Trichloroethene | ND | | 11 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,4-Dioxane | 27 | | 15 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Trichlorofluoromethane | ND | | 12 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 16 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,2,4-Trimethylbenzene | ND | | 20 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| 1,3,5-Trimethylbenzene | ND | | 10 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Vinyl acetate | ND | | 14 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Vinyl chloride | ND | | 5.2 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| m,p-Xylene | ND | | 18 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| o-Xylene | ND | | 8.9 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |
| Naphthalene | ND | | 22 | | ug/m3 | | | 10/20/16 07:31 | 5.13 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93 | | 70 - 130 | | 10/20/16 07:31 | 5.13 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 70 - 130 | | 10/20/16 07:31 | 5.13 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | 10/20/16 07:31 | 5.13 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 3.8 | | 1.0 | | % v/v | | | 10/24/16 13:43 | 2.05 |
| Helium | ND | | 0.21 | | % v/v | | | 10/24/16 13:43 | 2.05 |
| Oxygen | 7.9 | | 0.41 | | % v/v | | | 10/24/16 13:43 | 2.05 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV9

Lab Sample ID: 320-22817-9

Date Collected: 10/18/16 07:11

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Benzene | 3.0 | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Benzyl chloride | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Bromodichloromethane | ND | | 0.78 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Bromoform | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Bromomethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 2-Butanone (MEK) | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Carbon disulfide | 3.5 | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Carbon tetrachloride | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Chlorobenzene | ND | | 0.78 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Dibromochloromethane | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Chloroethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Chloroform | 3.4 | | 0.78 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Chloromethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dibromoethane (EDB) | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichlorobenzene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,3-Dichlorobenzene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,4-Dichlorobenzene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Dichlorodifluoromethane | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,1-Dichloroethane | ND | | 0.78 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichloroethane | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,1-Dichloroethene | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| cis-1,2-Dichloroethene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| trans-1,2-Dichloroethene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichloropropane | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| cis-1,3-Dichloropropene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| trans-1,3-Dichloropropene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Ethylbenzene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 4-Ethyltoluene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Hexachlorobutadiene | ND | | 5.2 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 2-Hexanone | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Methylene Chloride | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Styrene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Tetrachloroethene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Toluene | 1.8 | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,2,4-Trichlorobenzene | ND | | 5.2 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,1,1-Trichloroethane | ND | | 0.78 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,1,2-Trichloroethane | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Trichloroethene | 2.3 | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,4-Dioxane | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Trichlorofluoromethane | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,2,4-Trimethylbenzene | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Vinyl acetate | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Vinyl chloride | ND | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV9

Lab Sample ID: 320-22817-9

Date Collected: 10/18/16 07:11

Matrix: Air

Date Received: 10/19/16 13:39

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 | 2.9 | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| o-Xylene | 1.1 | | 1.0 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Naphthalene | ND | | 2.1 | | ppb v/v | | | 10/20/16 03:07 | 2.61 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | 9.6 | | 3.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Benzyl chloride | ND | | 11 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Bromodichloromethane | ND | | 5.2 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Bromoform | ND | | 11 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Bromomethane | ND | | 8.1 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 2-Butanone (MEK) | ND | | 6.2 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Carbon disulfide | 11 | | 6.5 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Carbon tetrachloride | ND | | 13 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Chlorobenzene | ND | | 3.6 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Dibromochloromethane | ND | | 8.9 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Chloroethane | ND | | 5.5 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Chloroform | 16 | | 3.8 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Chloromethane | ND | | 4.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dibromoethane (EDB) | ND | | 16 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichlorobenzene | ND | | 6.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,3-Dichlorobenzene | ND | | 6.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,4-Dichlorobenzene | ND | | 6.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Dichlorodifluoromethane | ND | | 5.2 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,1-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichloroethane | ND | | 8.5 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,1-Dichloroethene | ND | | 8.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| cis-1,2-Dichloroethene | ND | | 4.1 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| trans-1,2-Dichloroethene | ND | | 4.1 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichloropropane | ND | | 4.8 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| cis-1,3-Dichloropropene | ND | | 4.7 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| trans-1,3-Dichloropropene | ND | | 4.7 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 7.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Ethylbenzene | ND | | 4.5 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 4-Ethyltoluene | ND | | 5.1 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Hexachlorobutadiene | ND | | 56 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 2-Hexanone | ND | | 4.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Methylene Chloride | ND | | 3.6 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 4.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Styrene | ND | | 4.4 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.2 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Tetrachloroethene | ND | | 7.1 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Toluene | 6.7 | | 3.9 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,2,4-Trichlorobenzene | ND | | 39 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,1,1-Trichloroethane | ND | | 4.3 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,1,2-Trichloroethane | ND | | 5.7 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Trichloroethene | 12 | | 5.6 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,4-Dioxane | ND | | 7.5 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Trichlorofluoromethane | ND | | 5.9 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 8.0 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV9

Lab Sample ID: 320-22817-9

Date Collected: 10/18/16 07:11

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| 1,2,4-Trimethylbenzene | ND | | 10 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| 1,3,5-Trimethylbenzene | ND | | 5.1 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Vinyl acetate | ND | | 7.4 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Vinyl chloride | ND | | 2.7 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| m,p-Xylene | 13 | | 9.1 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| o-Xylene | 4.8 | | 4.5 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Naphthalene | ND | | 11 | | ug/m3 | | | 10/20/16 03:07 | 2.61 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95 | | 70 - 130 | | | | | 10/20/16 03:07 | 2.61 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 130 | | | | | 10/20/16 03:07 | 2.61 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | | 10/20/16 03:07 | 2.61 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------------|-------------|----------|-----------------|-----------------|----------------|
| Acetone | 160 | | 25 | | ppb v/v | | | 10/20/16 08:23 | 5.09 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 380 | | 60 | | ug/m3 | | | 10/20/16 08:23 | 5.09 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | | | | | 10/20/16 08:23 | 5.09 |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 130 | | | | | 10/20/16 08:23 | 5.09 |
| Toluene-d8 (Surr) | 98 | | 70 - 130 | | | | | 10/20/16 08:23 | 5.09 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 1.0 | | % v/v | | | 10/24/16 13:59 | 2.04 |
| Helium | ND | | 0.20 | | % v/v | | | 10/24/16 13:59 | 2.04 |
| Oxygen | 13 | | 0.41 | | % v/v | | | 10/24/16 13:59 | 2.04 |

Client Sample ID: SSV10

Lab Sample ID: 320-22817-10

Date Collected: 10/18/16 07:21

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Acetone | 55 | | 11 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Benzene | 1.5 | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Benzyl chloride | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Bromodichloromethane | ND | | 0.64 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Bromoform | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Bromomethane | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 2-Butanone (MEK) | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Carbon disulfide | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Carbon tetrachloride | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Chlorobenzene | ND | | 0.64 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Dibromochloromethane | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Chloroethane | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV10

Lab Sample ID: 320-22817-10

Date Collected: 10/18/16 07:21

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Chloroform | 1.3 | | 0.64 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Chloromethane | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dibromoethane (EDB) | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichlorobenzene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,3-Dichlorobenzene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,4-Dichlorobenzene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Dichlorodifluoromethane | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,1-Dichloroethane | ND | | 0.64 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichloroethane | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,1-Dichloroethene | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| cis-1,2-Dichloroethene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| trans-1,2-Dichloroethene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichloropropane | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| cis-1,3-Dichloropropene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| trans-1,3-Dichloropropene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Ethylbenzene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 4-Ethyltoluene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Hexachlorobutadiene | ND | | 4.3 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 2-Hexanone | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Methylene Chloride | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Styrene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Tetrachloroethene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Toluene | 0.97 | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,2,4-Trichlorobenzene | ND | | 4.3 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,1,1-Trichloroethane | ND | | 0.64 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,1,2-Trichloroethane | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Trichloroethene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,4-Dioxane | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Trichlorofluoromethane | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,2,4-Trimethylbenzene | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| 1,3,5-Trimethylbenzene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Vinyl acetate | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Vinyl chloride | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| m,p-Xylene | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| o-Xylene | ND | | 0.86 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Naphthalene | ND | | 1.7 | | ppb v/v | | | 10/20/16 20:30 | 2.14 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 130 | | 25 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Benzene | 4.6 | | 2.7 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Benzyl chloride | ND | | 8.9 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Bromodichloromethane | ND | | 4.3 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Bromoform | ND | | 8.8 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Bromomethane | ND | | 6.6 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 2-Butanone (MEK) | ND | | 5.0 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV10

Lab Sample ID: 320-22817-10

Date Collected: 10/18/16 07:21

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Carbon disulfide | ND | | 5.3 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Carbon tetrachloride | ND | | 11 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Chlorobenzene | ND | | 3.0 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Dibromochloromethane | ND | | 7.3 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Chloroethane | ND | | 4.5 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Chloroform | 6.5 | | 3.1 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Chloromethane | ND | | 3.5 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dibromoethane (EDB) | ND | | 13 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichlorobenzene | ND | | 5.1 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,3-Dichlorobenzene | ND | | 5.1 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,4-Dichlorobenzene | ND | | 5.1 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Dichlorodifluoromethane | ND | | 4.2 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,1-Dichloroethane | ND | | 2.6 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichloroethane | ND | | 6.9 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,1-Dichloroethene | ND | | 6.8 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| cis-1,2-Dichloroethene | ND | | 3.4 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| trans-1,2-Dichloroethene | ND | | 3.4 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichloropropane | ND | | 4.0 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| cis-1,3-Dichloropropene | ND | | 3.9 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| trans-1,3-Dichloropropene | ND | | 3.9 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 6.0 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Ethylbenzene | ND | | 3.7 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 4-Ethyltoluene | ND | | 4.2 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Hexachlorobutadiene | ND | | 46 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 2-Hexanone | ND | | 3.5 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Methylene Chloride | ND | | 3.0 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 3.5 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Styrene | ND | | 3.6 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.9 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Tetrachloroethene | ND | | 5.8 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Toluene | 3.6 | | 3.2 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,2,4-Trichlorobenzene | ND | | 32 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,1,1-Trichloroethane | ND | | 3.5 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,1,2-Trichloroethane | ND | | 4.7 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Trichloroethene | ND | | 4.6 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,4-Dioxane | ND | | 6.2 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Trichlorofluoromethane | ND | | 4.8 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 6.6 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,2,4-Trimethylbenzene | ND | | 8.4 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| 1,3,5-Trimethylbenzene | ND | | 4.2 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Vinyl acetate | ND | | 6.0 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Vinyl chloride | ND | | 2.2 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| m,p-Xylene | ND | | 7.4 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| o-Xylene | ND | | 3.7 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |
| Naphthalene | ND | | 9.0 | | ug/m3 | | | 10/20/16 20:30 | 2.14 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | 10/20/16 20:30 | 2.14 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 130 | | 10/20/16 20:30 | 2.14 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV10

Lab Sample ID: 320-22817-10

Date Collected: 10/18/16 07:21

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | 10/20/16 20:30 | 2.14 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 1.1 | | % v/v | | | 10/24/16 14:07 | 2.14 |
| Helium | 0.22 | | 0.21 | | % v/v | | | 10/24/16 14:07 | 2.14 |
| Oxygen | 20 | | 0.43 | | % v/v | | | 10/24/16 14:07 | 2.14 |

Client Sample ID: SSV11

Lab Sample ID: 320-22817-11

Date Collected: 10/18/16 07:47

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 120 | | 31 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Benzene | 2.8 | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Benzyl chloride | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Bromodichloromethane | ND | | 1.9 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Bromoform | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Bromomethane | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 2-Butanone (MEK) | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Carbon disulfide | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Carbon tetrachloride | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Chlorobenzene | ND | | 1.9 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Dibromochloromethane | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Chloroethane | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Chloroform | ND | | 1.9 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Chloromethane | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,3-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,4-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Dichlorodifluoromethane | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,1-Dichloroethane | ND | | 1.9 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichloroethane | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,1-Dichloroethene | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| cis-1,2-Dichloroethene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| trans-1,2-Dichloroethene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichloropropane | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| cis-1,3-Dichloropropene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| trans-1,3-Dichloropropene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Ethylbenzene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 4-Ethyltoluene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Hexachlorobutadiene | ND | | 12 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 2-Hexanone | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Methylene Chloride | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV11

Lab Sample ID: 320-22817-11

Date Collected: 10/18/16 07:47

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|---------------------------------------|-----------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 4-Methyl-2-pentanone (MIBK) | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Styrene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Tetrachloroethene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Toluene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,2,4-Trichlorobenzene | ND | | 12 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,1,1-Trichloroethane | ND | | 1.9 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,1,2-Trichloroethane | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Trichloroethene | 14 | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,4-Dioxane | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Trichlorofluoromethane | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| 1,3,5-Trimethylbenzene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Vinyl acetate | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Vinyl chloride | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| m,p-Xylene | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| o-Xylene | ND | | 2.5 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |
| Naphthalene | ND | | 5.0 | | ppb v/v | | | 10/20/16 10:07 | 6.2 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Acetone | 280 | | 74 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Benzene | 9.0 | | 7.9 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Benzyl chloride | ND | | 26 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Bromodichloromethane | ND | | 12 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Bromoform | ND | | 26 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Bromomethane | ND | | 19 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 2-Butanone (MEK) | ND | | 15 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Carbon disulfide | ND | | 15 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Carbon tetrachloride | ND | | 31 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Chlorobenzene | ND | | 8.6 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Dibromochloromethane | ND | | 21 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Chloroethane | ND | | 13 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Chloroform | ND | | 9.1 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Chloromethane | ND | | 10 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dibromoethane (EDB) | ND | | 38 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,3-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,4-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Dichlorodifluoromethane | ND | | 12 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,1-Dichloroethane | ND | | 7.5 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichloroethane | ND | | 20 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,1-Dichloroethene | ND | | 20 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| cis-1,2-Dichloroethene | ND | | 9.8 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| trans-1,2-Dichloroethene | ND | | 9.8 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichloropropane | ND | | 11 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| cis-1,3-Dichloropropene | ND | | 11 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| trans-1,3-Dichloropropene | ND | | 11 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 17 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV11

Lab Sample ID: 320-22817-11

Date Collected: 10/18/16 07:47

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|---------------------------------------|-----------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Ethylbenzene | ND | | 11 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 4-Ethyltoluene | ND | | 12 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Hexachlorobutadiene | ND | | 130 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 2-Hexanone | ND | | 10 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Methylene Chloride | ND | | 8.6 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 10 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Styrene | ND | | 11 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,1,2,2-Tetrachloroethane | ND | | 17 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Tetrachloroethene | ND | | 17 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Toluene | ND | | 9.3 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,2,4-Trichlorobenzene | ND | | 92 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,1,1-Trichloroethane | ND | | 10 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,1,2-Trichloroethane | ND | | 14 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Trichloroethene | 74 | | 13 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,4-Dioxane | ND | | 18 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Trichlorofluoromethane | ND | | 14 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 19 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,2,4-Trimethylbenzene | ND | | 24 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| 1,3,5-Trimethylbenzene | ND | | 12 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Vinyl acetate | ND | | 17 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Vinyl chloride | ND | | 6.3 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| m,p-Xylene | ND | | 22 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| o-Xylene | ND | | 11 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |
| Naphthalene | ND | | 26 | | ug/m3 | | | 10/20/16 10:07 | 6.2 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 94 | | 70 - 130 | | 10/20/16 10:07 | 6.2 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 70 - 130 | | 10/20/16 10:07 | 6.2 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | 10/20/16 10:07 | 6.2 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 3.3 | | 0.99 | | % v/v | | | 10/24/16 14:15 | 1.98 |
| Helium | ND | | 0.20 | | % v/v | | | 10/24/16 14:15 | 1.98 |
| Oxygen | 14 | | 0.40 | | % v/v | | | 10/24/16 14:15 | 1.98 |

Client Sample ID: PSV5-5

Lab Sample ID: 320-22817-12

Date Collected: 10/19/16 05:39

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 200 | | 100 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Benzene | 33 | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Benzyl chloride | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Bromodichloromethane | ND | | 6.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Bromoform | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Bromomethane | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: PSV5-5

Lab Sample ID: 320-22817-12

Date Collected: 10/19/16 05:39

Matrix: Air

Date Received: 10/19/16 13:39

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) | 110 | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Carbon disulfide | 31 | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Carbon tetrachloride | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Chlorobenzene | ND | | 6.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Dibromochloromethane | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Chloroethane | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Chloroform | ND | | 6.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Chloromethane | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,2-Dibromoethane (EDB) | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,2-Dichlorobenzene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,3-Dichlorobenzene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,4-Dichlorobenzene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Dichlorodifluoromethane | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,1-Dichloroethane | ND | | 6.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,2-Dichloroethane | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,1-Dichloroethene | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| cis-1,2-Dichloroethene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| trans-1,2-Dichloroethene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,2-Dichloropropane | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| cis-1,3-Dichloropropene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| trans-1,3-Dichloropropene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Ethylbenzene | 8.0 | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 4-Ethyltoluene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Hexachlorobutadiene | ND | | 40 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 2-Hexanone | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Methylene Chloride | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Styrene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Tetrachloroethene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Toluene | 48 | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 40 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,1,1-Trichloroethane | ND | | 6.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,1,2-Trichloroethane | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Trichloroethene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,4-Dioxane | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Trichlorofluoromethane | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,2,4-Trimethylbenzene | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| 1,3,5-Trimethylbenzene | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Vinyl acetate | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Vinyl chloride | ND | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| m,p-Xylene | 34 | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| o-Xylene | 8.3 | | 8.0 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Naphthalene | ND | | 16 | | ppb v/v | | | 10/20/16 21:22 | 20 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 490 | | 240 | | ug/m3 | | | 10/20/16 21:22 | 20 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: PSV5-5

Lab Sample ID: 320-22817-12

Date Collected: 10/19/16 05:39

Matrix: Air

Date Received: 10/19/16 13:39

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 | 100 | | 26 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Benzyl chloride | ND | | 83 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Bromodichloromethane | ND | | 40 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Bromoform | ND | | 83 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Bromomethane | ND | | 62 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 2-Butanone (MEK) | 310 | | 47 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Carbon disulfide | 95 | | 50 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Carbon tetrachloride | ND | | 100 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Chlorobenzene | ND | | 28 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Dibromochloromethane | ND | | 68 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Chloroethane | ND | | 42 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Chloroform | ND | | 29 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Chloromethane | ND | | 33 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,2-Dibromoethane (EDB) | ND | | 120 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,2-Dichlorobenzene | ND | | 48 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,3-Dichlorobenzene | ND | | 48 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,4-Dichlorobenzene | ND | | 48 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Dichlorodifluoromethane | ND | | 40 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,1-Dichloroethane | ND | | 24 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,2-Dichloroethane | ND | | 65 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,1-Dichloroethene | ND | | 63 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| cis-1,2-Dichloroethene | ND | | 32 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| trans-1,2-Dichloroethene | ND | | 32 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,2-Dichloropropane | ND | | 37 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| cis-1,3-Dichloropropene | ND | | 36 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| trans-1,3-Dichloropropene | ND | | 36 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 56 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Ethylbenzene | 35 | | 35 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 4-Ethyltoluene | ND | | 39 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Hexachlorobutadiene | ND | | 430 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 2-Hexanone | ND | | 33 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Methylene Chloride | ND | | 28 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 33 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Styrene | ND | | 34 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | 55 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Tetrachloroethene | ND | | 54 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Toluene | 180 | | 30 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 300 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,1,1-Trichloroethane | ND | | 33 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,1,2-Trichloroethane | ND | | 44 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Trichloroethene | ND | | 43 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,4-Dioxane | ND | | 58 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Trichlorofluoromethane | ND | | 45 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 61 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,2,4-Trimethylbenzene | ND | | 79 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| 1,3,5-Trimethylbenzene | ND | | 39 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Vinyl acetate | ND | | 56 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Vinyl chloride | ND | | 20 | | ug/m3 | | | 10/20/16 21:22 | 20 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: PSV5-5

Lab Sample ID: 320-22817-12

Date Collected: 10/19/16 05:39

Matrix: Air

Date Received: 10/19/16 13:39

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 | 150 | | 69 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| o-Xylene | 36 | | 35 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Naphthalene | ND | | 84 | | ug/m3 | | | 10/20/16 21:22 | 20 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | | | | | 10/20/16 21:22 | 20 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 70 - 130 | | | | | 10/20/16 21:22 | 20 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | | | | 10/20/16 21:22 | 20 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 3.6 | | 1.0 | | % v/v | | | 10/24/16 14:24 | 2 |
| Helium | ND | | 0.20 | | % v/v | | | 10/24/16 14:24 | 2 |
| Oxygen | 2.4 | | 0.40 | | % v/v | | | 10/24/16 14:24 | 2 |

Client Sample ID: PSV5-10

Lab Sample ID: 320-22817-13

Date Collected: 10/19/16 05:49

Matrix: Air

Date Received: 10/19/16 13:39

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 130 | | 120 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Benzene | 58 | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Benzyl chloride | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Bromodichloromethane | ND | | 7.4 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Bromoform | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Bromomethane | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 2-Butanone (MEK) | 62 | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Carbon disulfide | 85 | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Carbon tetrachloride | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Chlorobenzene | ND | | 7.4 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Dibromochloromethane | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Chloroethane | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Chloroform | ND | | 7.4 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Chloromethane | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dibromoethane (EDB) | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dichlorobenzene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,3-Dichlorobenzene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,4-Dichlorobenzene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Dichlorodifluoromethane | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,1-Dichloroethane | ND | | 7.4 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dichloroethane | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,1-Dichloroethene | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| cis-1,2-Dichloroethene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| trans-1,2-Dichloroethene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dichloropropane | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| cis-1,3-Dichloropropene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| trans-1,3-Dichloropropene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: PSV5-10

Lab Sample ID: 320-22817-13

Date Collected: 10/19/16 05:49

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Ethylbenzene | 12 | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 4-Ethyltoluene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Hexachlorobutadiene | ND | | 49 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 2-Hexanone | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Methylene Chloride | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Styrene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,1,2,2-Tetrachloroethane | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Tetrachloroethene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Toluene | 68 | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,2,4-Trichlorobenzene | ND | | 49 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,1,1-Trichloroethane | ND | | 7.4 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,1,2-Trichloroethane | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Trichloroethene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,4-Dioxane | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Trichlorofluoromethane | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,2,4-Trimethylbenzene | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| 1,3,5-Trimethylbenzene | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Vinyl acetate | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Vinyl chloride | ND | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| m,p-Xylene | 44 | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| o-Xylene | 16 | | 9.8 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Naphthalene | ND | | 20 | | ppb v/v | | | 10/20/16 22:14 | 24.6 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 310 | | 290 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Benzene | 180 | | 31 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Benzyl chloride | ND | | 100 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Bromodichloromethane | ND | | 49 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Bromoform | ND | | 100 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Bromomethane | ND | | 76 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 2-Butanone (MEK) | 180 | | 58 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Carbon disulfide | 270 | | 61 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Carbon tetrachloride | ND | | 120 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Chlorobenzene | ND | | 34 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Dibromochloromethane | ND | | 84 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Chloroethane | ND | | 52 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Chloroform | ND | | 36 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Chloromethane | ND | | 41 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dibromoethane (EDB) | ND | | 150 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dichlorobenzene | ND | | 59 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,3-Dichlorobenzene | ND | | 59 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,4-Dichlorobenzene | ND | | 59 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Dichlorodifluoromethane | ND | | 49 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,1-Dichloroethane | ND | | 30 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dichloroethane | ND | | 80 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,1-Dichloroethene | ND | | 78 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: PSV5-10

Lab Sample ID: 320-22817-13

Date Collected: 10/19/16 05:49

Matrix: Air

Date Received: 10/19/16 13:39

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| cis-1,2-Dichloroethene | ND | | 39 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| trans-1,2-Dichloroethene | ND | | 39 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dichloropropane | ND | | 45 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| cis-1,3-Dichloropropene | ND | | 45 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| trans-1,3-Dichloropropene | ND | | 45 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 69 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Ethylbenzene | 54 | | 43 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 4-Ethyltoluene | ND | | 48 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Hexachlorobutadiene | ND | | 520 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 2-Hexanone | ND | | 40 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Methylene Chloride | ND | | 34 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 40 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Styrene | ND | | 42 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,1,2,2-Tetrachloroethane | ND | | 68 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Tetrachloroethene | ND | | 67 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Toluene | 260 | | 37 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,2,4-Trichlorobenzene | ND | | 370 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,1,1-Trichloroethane | ND | | 40 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,1,2-Trichloroethane | ND | | 54 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Trichloroethene | ND | | 53 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,4-Dioxane | ND | | 71 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Trichlorofluoromethane | ND | | 55 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 75 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,2,4-Trimethylbenzene | ND | | 97 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| 1,3,5-Trimethylbenzene | ND | | 48 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Vinyl acetate | ND | | 69 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Vinyl chloride | ND | | 25 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| m,p-Xylene | 190 | | 85 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| o-Xylene | 69 | | 43 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |
| Naphthalene | ND | | 100 | | ug/m3 | | | 10/20/16 22:14 | 24.6 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | 10/20/16 22:14 | 24.6 |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 130 | | 10/20/16 22:14 | 24.6 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | 10/20/16 22:14 | 24.6 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.99 | | % v/v | | | 10/24/16 14:40 | 1.97 |
| Helium | ND | | 0.20 | | % v/v | | | 10/24/16 14:40 | 1.97 |
| Oxygen | 3.9 | | 0.39 | | % v/v | | | 10/24/16 14:40 | 1.97 |

Surrogate Summary

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

TestAmerica Job ID: 320-22817-1

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

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) | 12DCE (70-130) | TOL (70-130) |
|-------------------|------------------------|-----------------|-------------------|-----------------|
| 320-22817-1 | SSV1 | 102 | 103 | 99 |
| 320-22817-2 | SSV2 | 102 | 104 | 100 |
| 320-22817-3 | SSV3 | 104 | 104 | 101 |
| 320-22817-4 | SSV4 | 102 | 105 | 100 |
| 320-22817-5 | SSV5 | 99 | 97 | 99 |
| 320-22817-6 | SSV6 | 97 | 96 | 100 |
| 320-22817-7 | SSV7 | 86 | 98 | 99 |
| 320-22817-8 | SSV8 | 93 | 102 | 99 |
| 320-22817-9 | SSV9 | 95 | 98 | 99 |
| 320-22817-9 - DL | SSV9 | 92 | 97 | 98 |
| 320-22817-10 | SSV10 | 98 | 98 | 99 |
| 320-22817-11 | SSV11 | 94 | 100 | 101 |
| 320-22817-12 | PSV5-5 | 96 | 99 | 97 |
| 320-22817-13 | PSV5-10 | 105 | 97 | 97 |
| LCS 320-133354/4 | Lab Control Sample | 109 | 107 | 102 |
| LCS 320-133401/3 | Lab Control Sample | 108 | 95 | 100 |
| LCS 320-133595/3 | Lab Control Sample | 110 | 107 | 103 |
| LCSD 320-133354/5 | Lab Control Sample Dup | 106 | 103 | 103 |
| LCSD 320-133401/4 | Lab Control Sample Dup | 107 | 96 | 99 |
| LCSD 320-133595/4 | Lab Control Sample Dup | 111 | 104 | 104 |
| MB 320-133354/7 | Method Blank | 87 | 95 | 101 |
| MB 320-133401/6 | Method Blank | 98 | 95 | 100 |
| MB 320-133595/6 | Method Blank | 87 | 96 | 97 |

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: 320-22817-1

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

Lab Sample ID: MB 320-133354/7

Matrix: Air

Analysis Batch: 133354

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 | | | 10/19/16 17:27 | 1 |
| Benzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Benzyl chloride | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Bromodichloromethane | ND | | 0.30 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Bromoform | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Bromomethane | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 2-Butanone (MEK) | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Carbon disulfide | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Carbon tetrachloride | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Chlorobenzene | ND | | 0.30 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Dibromochloromethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Chloroethane | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Chloroform | ND | | 0.30 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Chloromethane | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Dichlorodifluoromethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,1-Dichloroethane | ND | | 0.30 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,2-Dichloroethane | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,1-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,2-Dichloropropane | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Ethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 4-Ethyltoluene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 2-Hexanone | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Methylene Chloride | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Styrene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Tetrachloroethene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Toluene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.30 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Trichloroethene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,4-Dioxane | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Trichlorofluoromethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Vinyl acetate | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: MB 320-133354/7
Matrix: Air
Analysis Batch: 133354

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|-----|---------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Vinyl chloride | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| m,p-Xylene | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| o-Xylene | ND | | 0.40 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Naphthalene | ND | | 0.80 | | ppb v/v | | | 10/19/16 17:27 | 1 |
| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Result | Qualifier | | | | | | | |
| Acetone | ND | | 12 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Benzene | ND | | 1.3 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Benzyl chloride | ND | | 4.1 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Bromoform | ND | | 4.1 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Bromomethane | ND | | 3.1 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 2-Butanone (MEK) | ND | | 2.4 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Carbon disulfide | ND | | 2.5 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Chlorobenzene | ND | | 1.4 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Dibromochloromethane | ND | | 3.4 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Chloroethane | ND | | 2.1 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Chloroform | ND | | 1.5 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Chloromethane | ND | | 1.7 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,1-Dichloroethane | ND | | 1.2 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,1-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,2-Dichloropropane | ND | | 1.8 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.8 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Ethylbenzene | ND | | 1.7 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 4-Ethyltoluene | ND | | 2.0 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Hexachlorobutadiene | ND | | 21 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 2-Hexanone | ND | | 1.6 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Methylene Chloride | ND | | 1.4 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Styrene | ND | | 1.7 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Tetrachloroethene | ND | | 2.7 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Toluene | ND | | 1.5 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Trichloroethene | ND | | 2.1 | | ug/m3 | | | 10/19/16 17:27 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: MB 320-133354/7

Matrix: Air

Analysis Batch: 133354

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,4-Dioxane | ND | | 2.9 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Trichlorofluoromethane | ND | | 2.2 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.9 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Vinyl acetate | ND | | 2.8 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| m,p-Xylene | ND | | 3.5 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| o-Xylene | ND | | 1.7 | | ug/m3 | | | 10/19/16 17:27 | 1 |
| Naphthalene | ND | | 4.2 | | ug/m3 | | | 10/19/16 17:27 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | 10/19/16 17:27 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 70 - 130 | | 10/19/16 17:27 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | 10/19/16 17:27 | 1 |

Lab Sample ID: LCS 320-133354/4

Matrix: Air

Analysis Batch: 133354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|---------|---|------|--------------|
| Acetone | 20.0 | 18.6 | | ppb v/v | | 93 | 71 - 131 |
| Benzene | 20.0 | 20.6 | | ppb v/v | | 103 | 68 - 128 |
| Benzyl chloride | 20.0 | 16.0 | | ppb v/v | | 80 | 58 - 120 |
| Bromodichloromethane | 20.0 | 21.4 | | ppb v/v | | 107 | 65 - 130 |
| Bromoform | 20.0 | 19.8 | | ppb v/v | | 99 | 64 - 144 |
| Bromomethane | 20.0 | 20.5 | | ppb v/v | | 103 | 70 - 131 |
| 2-Butanone (MEK) | 20.0 | 21.2 | | ppb v/v | | 106 | 71 - 131 |
| Carbon disulfide | 20.0 | 19.5 | | ppb v/v | | 97 | 63 - 123 |
| Carbon tetrachloride | 20.0 | 21.9 | | ppb v/v | | 109 | 67 - 127 |
| Chlorobenzene | 20.0 | 19.2 | | ppb v/v | | 96 | 70 - 132 |
| Dibromochloromethane | 20.0 | 20.6 | | ppb v/v | | 103 | 68 - 128 |
| Chloroethane | 20.0 | 21.4 | | ppb v/v | | 107 | 70 - 131 |
| Chloroform | 20.0 | 21.4 | | ppb v/v | | 107 | 69 - 129 |
| Chloromethane | 20.0 | 19.8 | | ppb v/v | | 99 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.2 | | ppb v/v | | 101 | 68 - 131 |
| 1,2-Dichlorobenzene | 20.0 | 17.0 | | ppb v/v | | 85 | 73 - 143 |
| 1,3-Dichlorobenzene | 20.0 | 16.7 | | ppb v/v | | 84 | 77 - 136 |
| 1,4-Dichlorobenzene | 20.0 | 17.0 | | ppb v/v | | 85 | 73 - 143 |
| Dichlorodifluoromethane | 20.0 | 21.8 | | ppb v/v | | 109 | 69 - 129 |
| 1,1-Dichloroethane | 20.0 | 20.9 | | ppb v/v | | 105 | 65 - 125 |
| 1,2-Dichloroethane | 20.0 | 22.0 | | ppb v/v | | 110 | 71 - 131 |
| 1,1-Dichloroethene | 20.0 | 19.4 | | ppb v/v | | 97 | 53 - 128 |
| cis-1,2-Dichloroethene | 20.0 | 20.5 | | ppb v/v | | 103 | 68 - 128 |
| trans-1,2-Dichloroethene | 20.0 | 21.1 | | ppb v/v | | 105 | 70 - 130 |
| 1,2-Dichloropropane | 20.0 | 22.6 | | ppb v/v | | 113 | 74 - 128 |
| cis-1,3-Dichloropropene | 20.0 | 23.5 | | ppb v/v | | 118 | 78 - 132 |
| trans-1,3-Dichloropropene | 20.0 | 19.3 | | ppb v/v | | 97 | 56 - 136 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCS 320-133354/4

Matrix: Air

Analysis Batch: 133354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 21.4 | | ppb v/v | | 107 | 64 - 124 |
| Ethylbenzene | 20.0 | 18.8 | | ppb v/v | | 94 | 76 - 136 |
| 4-Ethyltoluene | 20.0 | 14.1 | | ppb v/v | | 70 | 62 - 136 |
| Hexachlorobutadiene | 20.0 | 21.5 | | ppb v/v | | 108 | 42 - 150 |
| 2-Hexanone | 20.0 | 22.1 | | ppb v/v | | 110 | 70 - 128 |
| Methylene Chloride | 20.0 | 19.3 | | ppb v/v | | 97 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 20.9 | | ppb v/v | | 105 | 73 - 133 |
| Styrene | 20.0 | 18.7 | | ppb v/v | | 94 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 18.9 | | ppb v/v | | 95 | 75 - 135 |
| Tetrachloroethene | 20.0 | 19.3 | | ppb v/v | | 96 | 56 - 138 |
| Toluene | 20.0 | 20.4 | | ppb v/v | | 102 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 20.0 | 23.9 | | ppb v/v | | 120 | 59 - 150 |
| 1,1,1-Trichloroethane | 20.0 | 21.2 | | ppb v/v | | 106 | 65 - 124 |
| 1,1,2-Trichloroethane | 20.0 | 20.6 | | ppb v/v | | 103 | 71 - 131 |
| Trichloroethene | 20.0 | 21.1 | | ppb v/v | | 106 | 64 - 127 |
| 1,4-Dioxane | 20.0 | 20.4 | | ppb v/v | | 102 | 55 - 141 |
| Trichlorofluoromethane | 20.0 | 21.8 | | ppb v/v | | 109 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 19.2 | | ppb v/v | | 96 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 20.0 | 15.3 | | ppb v/v | | 77 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 20.0 | 15.4 | | ppb v/v | | 77 | 65 - 136 |
| Vinyl acetate | 20.0 | 23.5 | | ppb v/v | | 118 | 77 - 134 |
| Vinyl chloride | 20.0 | 21.1 | | ppb v/v | | 105 | 69 - 129 |
| m,p-Xylene | 40.0 | 37.2 | | ppb v/v | | 93 | 75 - 138 |
| o-Xylene | 20.0 | 17.8 | | ppb v/v | | 89 | 77 - 132 |
| Naphthalene | 20.0 | 24.3 | | ppb v/v | | 121 | 58 - 150 |

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Acetone | 48 | 44.1 | | ug/m3 | | 93 | 71 - 131 |
| Benzene | 64 | 65.9 | | ug/m3 | | 103 | 68 - 128 |
| Benzyl chloride | 100 | 82.9 | | ug/m3 | | 80 | 58 - 120 |
| Bromodichloromethane | 130 | 143 | | ug/m3 | | 107 | 65 - 130 |
| Bromoform | 210 | 205 | | ug/m3 | | 99 | 64 - 144 |
| Bromomethane | 78 | 79.6 | | ug/m3 | | 103 | 70 - 131 |
| 2-Butanone (MEK) | 59 | 62.5 | | ug/m3 | | 106 | 71 - 131 |
| Carbon disulfide | 62 | 60.6 | | ug/m3 | | 97 | 63 - 123 |
| Carbon tetrachloride | 130 | 137 | | ug/m3 | | 109 | 67 - 127 |
| Chlorobenzene | 92 | 88.5 | | ug/m3 | | 96 | 70 - 132 |
| Dibromochloromethane | 170 | 175 | | ug/m3 | | 103 | 68 - 128 |
| Chloroethane | 53 | 56.4 | | ug/m3 | | 107 | 70 - 131 |
| Chloroform | 98 | 104 | | ug/m3 | | 107 | 69 - 129 |
| Chloromethane | 41 | 40.8 | | ug/m3 | | 99 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 150 | 155 | | ug/m3 | | 101 | 68 - 131 |
| 1,2-Dichlorobenzene | 120 | 102 | | ug/m3 | | 85 | 73 - 143 |
| 1,3-Dichlorobenzene | 120 | 101 | | ug/m3 | | 84 | 77 - 136 |
| 1,4-Dichlorobenzene | 120 | 102 | | ug/m3 | | 85 | 73 - 143 |
| Dichlorodifluoromethane | 99 | 108 | | ug/m3 | | 109 | 69 - 129 |
| 1,1-Dichloroethane | 81 | 84.6 | | ug/m3 | | 105 | 65 - 125 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCS 320-133354/4

Matrix: Air

Analysis Batch: 133354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|-------|---|------|--------------|
| 1,2-Dichloroethane | 81 | 88.9 | | ug/m3 | | 110 | 71 - 131 |
| 1,1-Dichloroethene | 79 | 76.8 | | ug/m3 | | 97 | 53 - 128 |
| cis-1,2-Dichloroethene | 79 | 81.3 | | ug/m3 | | 103 | 68 - 128 |
| trans-1,2-Dichloroethene | 79 | 83.6 | | ug/m3 | | 105 | 70 - 130 |
| 1,2-Dichloropropane | 92 | 104 | | ug/m3 | | 113 | 74 - 128 |
| cis-1,3-Dichloropropene | 91 | 107 | | ug/m3 | | 118 | 78 - 132 |
| trans-1,3-Dichloropropene | 91 | 87.8 | | ug/m3 | | 97 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 150 | | ug/m3 | | 107 | 64 - 124 |
| Ethylbenzene | 87 | 81.5 | | ug/m3 | | 94 | 76 - 136 |
| 4-Ethyltoluene | 98 | 69.1 | | ug/m3 | | 70 | 62 - 136 |
| Hexachlorobutadiene | 210 | 230 | | ug/m3 | | 108 | 42 - 150 |
| 2-Hexanone | 82 | 90.4 | | ug/m3 | | 110 | 70 - 128 |
| Methylene Chloride | 69 | 67.1 | | ug/m3 | | 97 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 85.7 | | ug/m3 | | 105 | 73 - 133 |
| Styrene | 85 | 79.8 | | ug/m3 | | 94 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 140 | 130 | | ug/m3 | | 95 | 75 - 135 |
| Tetrachloroethene | 140 | 131 | | ug/m3 | | 96 | 56 - 138 |
| Toluene | 75 | 76.8 | | ug/m3 | | 102 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 150 | 178 | | ug/m3 | | 120 | 59 - 150 |
| 1,1,1-Trichloroethane | 110 | 116 | | ug/m3 | | 106 | 65 - 124 |
| 1,1,2-Trichloroethane | 110 | 112 | | ug/m3 | | 103 | 71 - 131 |
| Trichloroethene | 110 | 113 | | ug/m3 | | 106 | 64 - 127 |
| 1,4-Dioxane | 72 | 73.5 | | ug/m3 | | 102 | 55 - 141 |
| Trichlorofluoromethane | 110 | 123 | | ug/m3 | | 109 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 147 | | ug/m3 | | 96 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 98 | 75.4 | | ug/m3 | | 77 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 98 | 75.9 | | ug/m3 | | 77 | 65 - 136 |
| Vinyl acetate | 70 | 82.8 | | ug/m3 | | 118 | 77 - 134 |
| Vinyl chloride | 51 | 53.9 | | ug/m3 | | 105 | 69 - 129 |
| m,p-Xylene | 170 | 161 | | ug/m3 | | 93 | 75 - 138 |
| o-Xylene | 87 | 77.5 | | ug/m3 | | 89 | 77 - 132 |
| Naphthalene | 100 | 127 | | ug/m3 | | 121 | 58 - 150 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 70 - 130 |
| Toluene-d8 (Surr) | 102 | | 70 - 130 |

Lab Sample ID: LCSD 320-133354/5

Matrix: Air

Analysis Batch: 133354

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| Acetone | 20.0 | 18.1 | | ppb v/v | | 90 | 71 - 131 | 3 | 25 |
| Benzene | 20.0 | 20.8 | | ppb v/v | | 104 | 68 - 128 | 1 | 25 |
| Benzyl chloride | 20.0 | 16.3 | | ppb v/v | | 81 | 58 - 120 | 2 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCSD 320-133354/5

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133354

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| Bromodichloromethane | 20.0 | 21.4 | | ppb v/v | | 107 | 65 - 130 | 0 | 25 |
| Bromoform | 20.0 | 20.1 | | ppb v/v | | 100 | 64 - 144 | 1 | 25 |
| Bromomethane | 20.0 | 20.9 | | ppb v/v | | 105 | 70 - 131 | 2 | 25 |
| 2-Butanone (MEK) | 20.0 | 21.4 | | ppb v/v | | 107 | 71 - 131 | 1 | 25 |
| Carbon disulfide | 20.0 | 19.7 | | ppb v/v | | 99 | 63 - 123 | 1 | 25 |
| Carbon tetrachloride | 20.0 | 21.4 | | ppb v/v | | 107 | 67 - 127 | 2 | 25 |
| Chlorobenzene | 20.0 | 19.7 | | ppb v/v | | 99 | 70 - 132 | 2 | 25 |
| Dibromochloromethane | 20.0 | 21.0 | | ppb v/v | | 105 | 68 - 128 | 2 | 25 |
| Chloroethane | 20.0 | 21.1 | | ppb v/v | | 106 | 70 - 131 | 1 | 25 |
| Chloroform | 20.0 | 21.2 | | ppb v/v | | 106 | 69 - 129 | 1 | 25 |
| Chloromethane | 20.0 | 19.9 | | ppb v/v | | 99 | 67 - 127 | 1 | 25 |
| 1,2-Dibromoethane (EDB) | 20.0 | 21.0 | | ppb v/v | | 105 | 68 - 131 | 4 | 25 |
| 1,2-Dichlorobenzene | 20.0 | 17.2 | | ppb v/v | | 86 | 73 - 143 | 1 | 25 |
| 1,3-Dichlorobenzene | 20.0 | 17.0 | | ppb v/v | | 85 | 77 - 136 | 1 | 25 |
| 1,4-Dichlorobenzene | 20.0 | 17.3 | | ppb v/v | | 86 | 73 - 143 | 1 | 25 |
| Dichlorodifluoromethane | 20.0 | 21.3 | | ppb v/v | | 107 | 69 - 129 | 2 | 25 |
| 1,1-Dichloroethane | 20.0 | 20.8 | | ppb v/v | | 104 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 20.0 | 21.4 | | ppb v/v | | 107 | 71 - 131 | 2 | 25 |
| 1,1-Dichloroethene | 20.0 | 19.0 | | ppb v/v | | 95 | 53 - 128 | 2 | 25 |
| cis-1,2-Dichloroethene | 20.0 | 20.5 | | ppb v/v | | 103 | 68 - 128 | 0 | 25 |
| trans-1,2-Dichloroethene | 20.0 | 20.9 | | ppb v/v | | 104 | 70 - 130 | 1 | 25 |
| 1,2-Dichloropropane | 20.0 | 22.4 | | ppb v/v | | 112 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 20.0 | 23.8 | | ppb v/v | | 119 | 78 - 132 | 1 | 25 |
| trans-1,3-Dichloropropene | 20.0 | 19.8 | | ppb v/v | | 99 | 56 - 136 | 2 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 21.1 | | ppb v/v | | 105 | 64 - 124 | 2 | 25 |
| Ethylbenzene | 20.0 | 19.4 | | ppb v/v | | 97 | 76 - 136 | 3 | 25 |
| 4-Ethyltoluene | 20.0 | 14.3 | | ppb v/v | | 72 | 62 - 136 | 2 | 25 |
| Hexachlorobutadiene | 20.0 | 22.2 | | ppb v/v | | 111 | 42 - 150 | 3 | 25 |
| 2-Hexanone | 20.0 | 22.7 | | ppb v/v | | 114 | 70 - 128 | 3 | 25 |
| Methylene Chloride | 20.0 | 19.0 | | ppb v/v | | 95 | 65 - 125 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 20.9 | | ppb v/v | | 105 | 73 - 133 | 0 | 25 |
| Styrene | 20.0 | 19.3 | | ppb v/v | | 97 | 76 - 144 | 3 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 19.6 | | ppb v/v | | 98 | 75 - 135 | 3 | 25 |
| Tetrachloroethene | 20.0 | 19.8 | | ppb v/v | | 99 | 56 - 138 | 3 | 25 |
| Toluene | 20.0 | 20.7 | | ppb v/v | | 104 | 71 - 132 | 2 | 25 |
| 1,2,4-Trichlorobenzene | 20.0 | 25.3 | | ppb v/v | | 126 | 59 - 150 | 6 | 25 |
| 1,1,1-Trichloroethane | 20.0 | 20.9 | | ppb v/v | | 105 | 65 - 124 | 1 | 25 |
| 1,1,2-Trichloroethane | 20.0 | 21.5 | | ppb v/v | | 107 | 71 - 131 | 4 | 25 |
| Trichloroethene | 20.0 | 21.1 | | ppb v/v | | 105 | 64 - 127 | 0 | 25 |
| 1,4-Dioxane | 20.0 | 21.0 | | ppb v/v | | 105 | 55 - 141 | 3 | 25 |
| Trichlorofluoromethane | 20.0 | 21.3 | | ppb v/v | | 106 | 68 - 128 | 3 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 19.2 | | ppb v/v | | 96 | 50 - 132 | 0 | 25 |
| 1,2,4-Trimethylbenzene | 20.0 | 15.7 | | ppb v/v | | 79 | 61 - 145 | 2 | 25 |
| 1,3,5-Trimethylbenzene | 20.0 | 15.6 | | ppb v/v | | 78 | 65 - 136 | 1 | 25 |
| Vinyl acetate | 20.0 | 23.0 | | ppb v/v | | 115 | 77 - 134 | 2 | 25 |
| Vinyl chloride | 20.0 | 21.1 | | ppb v/v | | 106 | 69 - 129 | 0 | 25 |
| m,p-Xylene | 40.0 | 38.3 | | ppb v/v | | 96 | 75 - 138 | 3 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCSD 320-133354/5

Matrix: Air

Analysis Batch: 133354

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| o-Xylene | 20.0 | 18.4 | | ppb v/v | | 92 | 77 - 132 | 3 | 25 |
| Naphthalene | 20.0 | 25.9 | | ppb v/v | | 130 | 58 - 150 | 7 | 25 |
| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
| Acetone | 48 | 42.9 | | ug/m3 | | 90 | 71 - 131 | 3 | 25 |
| Benzene | 64 | 66.4 | | ug/m3 | | 104 | 68 - 128 | 1 | 25 |
| Benzyl chloride | 100 | 84.2 | | ug/m3 | | 81 | 58 - 120 | 2 | 25 |
| Bromodichloromethane | 130 | 144 | | ug/m3 | | 107 | 65 - 130 | 0 | 25 |
| Bromoform | 210 | 208 | | ug/m3 | | 100 | 64 - 144 | 1 | 25 |
| Bromomethane | 78 | 81.3 | | ug/m3 | | 105 | 70 - 131 | 2 | 25 |
| 2-Butanone (MEK) | 59 | 63.2 | | ug/m3 | | 107 | 71 - 131 | 1 | 25 |
| Carbon disulfide | 62 | 61.5 | | ug/m3 | | 99 | 63 - 123 | 1 | 25 |
| Carbon tetrachloride | 130 | 135 | | ug/m3 | | 107 | 67 - 127 | 2 | 25 |
| Chlorobenzene | 92 | 90.7 | | ug/m3 | | 99 | 70 - 132 | 2 | 25 |
| Dibromochloromethane | 170 | 179 | | ug/m3 | | 105 | 68 - 128 | 2 | 25 |
| Chloroethane | 53 | 55.8 | | ug/m3 | | 106 | 70 - 131 | 1 | 25 |
| Chloroform | 98 | 103 | | ug/m3 | | 106 | 69 - 129 | 1 | 25 |
| Chloromethane | 41 | 41.0 | | ug/m3 | | 99 | 67 - 127 | 1 | 25 |
| 1,2-Dibromoethane (EDB) | 150 | 161 | | ug/m3 | | 105 | 68 - 131 | 4 | 25 |
| 1,2-Dichlorobenzene | 120 | 104 | | ug/m3 | | 86 | 73 - 143 | 1 | 25 |
| 1,3-Dichlorobenzene | 120 | 102 | | ug/m3 | | 85 | 77 - 136 | 1 | 25 |
| 1,4-Dichlorobenzene | 120 | 104 | | ug/m3 | | 86 | 73 - 143 | 1 | 25 |
| Dichlorodifluoromethane | 99 | 106 | | ug/m3 | | 107 | 69 - 129 | 2 | 25 |
| 1,1-Dichloroethane | 81 | 84.1 | | ug/m3 | | 104 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 81 | 86.8 | | ug/m3 | | 107 | 71 - 131 | 2 | 25 |
| 1,1-Dichloroethene | 79 | 75.4 | | ug/m3 | | 95 | 53 - 128 | 2 | 25 |
| cis-1,2-Dichloroethene | 79 | 81.4 | | ug/m3 | | 103 | 68 - 128 | 0 | 25 |
| trans-1,2-Dichloroethene | 79 | 82.8 | | ug/m3 | | 104 | 70 - 130 | 1 | 25 |
| 1,2-Dichloropropane | 92 | 104 | | ug/m3 | | 112 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 91 | 108 | | ug/m3 | | 119 | 78 - 132 | 1 | 25 |
| trans-1,3-Dichloropropene | 91 | 89.8 | | ug/m3 | | 99 | 56 - 136 | 2 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 147 | | ug/m3 | | 105 | 64 - 124 | 2 | 25 |
| Ethylbenzene | 87 | 84.0 | | ug/m3 | | 97 | 76 - 136 | 3 | 25 |
| 4-Ethyltoluene | 98 | 70.5 | | ug/m3 | | 72 | 62 - 136 | 2 | 25 |
| Hexachlorobutadiene | 210 | 237 | | ug/m3 | | 111 | 42 - 150 | 3 | 25 |
| 2-Hexanone | 82 | 93.2 | | ug/m3 | | 114 | 70 - 128 | 3 | 25 |
| Methylene Chloride | 69 | 65.9 | | ug/m3 | | 95 | 65 - 125 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 85.7 | | ug/m3 | | 105 | 73 - 133 | 0 | 25 |
| Styrene | 85 | 82.4 | | ug/m3 | | 97 | 76 - 144 | 3 | 25 |
| 1,1,2,2-Tetrachloroethane | 140 | 134 | | ug/m3 | | 98 | 75 - 135 | 3 | 25 |
| Tetrachloroethene | 140 | 135 | | ug/m3 | | 99 | 56 - 138 | 3 | 25 |
| Toluene | 75 | 78.0 | | ug/m3 | | 104 | 71 - 132 | 2 | 25 |
| 1,2,4-Trichlorobenzene | 150 | 188 | | ug/m3 | | 126 | 59 - 150 | 6 | 25 |
| 1,1,1-Trichloroethane | 110 | 114 | | ug/m3 | | 105 | 65 - 124 | 1 | 25 |
| 1,1,2-Trichloroethane | 110 | 117 | | ug/m3 | | 107 | 71 - 131 | 4 | 25 |
| Trichloroethene | 110 | 113 | | ug/m3 | | 105 | 64 - 127 | 0 | 25 |
| 1,4-Dioxane | 72 | 75.9 | | ug/m3 | | 105 | 55 - 141 | 3 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCSD 320-133354/5

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133354

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Trichlorofluoromethane | 110 | 120 | | ug/m3 | | 106 | 68 - 128 | 3 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 147 | | ug/m3 | | 96 | 50 - 132 | 0 | 25 |
| 1,2,4-Trimethylbenzene | 98 | 77.2 | | ug/m3 | | 79 | 61 - 145 | 2 | 25 |
| 1,3,5-Trimethylbenzene | 98 | 76.8 | | ug/m3 | | 78 | 65 - 136 | 1 | 25 |
| Vinyl acetate | 70 | 81.1 | | ug/m3 | | 115 | 77 - 134 | 2 | 25 |
| Vinyl chloride | 51 | 54.1 | | ug/m3 | | 106 | 69 - 129 | 0 | 25 |
| m,p-Xylene | 170 | 166 | | ug/m3 | | 96 | 75 - 138 | 3 | 25 |
| o-Xylene | 87 | 80.0 | | ug/m3 | | 92 | 77 - 132 | 3 | 25 |
| Naphthalene | 100 | 136 | | ug/m3 | | 130 | 58 - 150 | 7 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 130 |
| Toluene-d8 (Surr) | 103 | | 70 - 130 |

Lab Sample ID: MB 320-133401/6

Client Sample ID: Method Blank

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133401

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|--------------|------|-----|---------|---|----------|----------------|---------|
| Acetone | ND | | 5.0 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Benzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Benzyl chloride | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Bromodichloromethane | ND | | 0.30 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Bromoform | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Bromomethane | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 2-Butanone (MEK) | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Carbon disulfide | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Carbon tetrachloride | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Chlorobenzene | ND | | 0.30 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Dibromochloromethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Chloroethane | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Chloroform | ND | | 0.30 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Chloromethane | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Dichlorodifluoromethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,1-Dichloroethane | ND | | 0.30 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,2-Dichloroethane | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,1-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,2-Dichloropropane | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: MB 320-133401/6
Matrix: Air
Analysis Batch: 133401

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|------|-----|---------|---|----------|----------------|---------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Ethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 4-Ethyltoluene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 2-Hexanone | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Methylene Chloride | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Styrene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Tetrachloroethene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Toluene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.30 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Trichloroethene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,4-Dioxane | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Trichlorofluoromethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Vinyl acetate | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Vinyl chloride | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| m,p-Xylene | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| o-Xylene | ND | | 0.40 | | ppb v/v | | | 10/19/16 18:38 | 1 |
| Naphthalene | ND | | 0.80 | | ppb v/v | | | 10/19/16 18:38 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| Acetone | ND | | 12 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Benzene | ND | | 1.3 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Benzyl chloride | ND | | 4.1 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Bromoform | ND | | 4.1 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Bromomethane | ND | | 3.1 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 2-Butanone (MEK) | ND | | 2.4 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Carbon disulfide | ND | | 2.5 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Chlorobenzene | ND | | 1.4 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Dibromochloromethane | ND | | 3.4 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Chloroethane | ND | | 2.1 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Chloroform | ND | | 1.5 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Chloromethane | ND | | 1.7 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,1-Dichloroethane | ND | | 1.2 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/19/16 18:38 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: MB 320-133401/6
Matrix: Air
Analysis Batch: 133401

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,2-Dichloropropane | ND | | 1.8 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.8 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Ethylbenzene | ND | | 1.7 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 4-Ethyltoluene | ND | | 2.0 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Hexachlorobutadiene | ND | | 21 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 2-Hexanone | ND | | 1.6 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Methylene Chloride | ND | | 1.4 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Styrene | ND | | 1.7 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Tetrachloroethene | ND | | 2.7 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Toluene | ND | | 1.5 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Trichloroethene | ND | | 2.1 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,4-Dioxane | ND | | 2.9 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Trichlorofluoromethane | ND | | 2.2 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.9 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Vinyl acetate | ND | | 2.8 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| m,p-Xylene | ND | | 3.5 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| o-Xylene | ND | | 1.7 | | ug/m3 | | | 10/19/16 18:38 | 1 |
| Naphthalene | ND | | 4.2 | | ug/m3 | | | 10/19/16 18:38 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | 10/19/16 18:38 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 70 - 130 | | 10/19/16 18:38 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 10/19/16 18:38 | 1 |

Lab Sample ID: LCS 320-133401/3
Matrix: Air
Analysis Batch: 133401

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|---------|---|------|--------------|
| Acetone | 20.0 | 16.9 | | ppb v/v | | 85 | 71 - 131 |
| Benzene | 20.0 | 19.1 | | ppb v/v | | 96 | 68 - 128 |
| Benzyl chloride | 20.0 | 18.8 | | ppb v/v | | 94 | 58 - 120 |
| Bromodichloromethane | 20.0 | 19.4 | | ppb v/v | | 97 | 65 - 130 |
| Bromoform | 20.0 | 21.0 | | ppb v/v | | 105 | 64 - 144 |
| Bromomethane | 20.0 | 21.0 | | ppb v/v | | 105 | 70 - 131 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCS 320-133401/3

Matrix: Air

Analysis Batch: 133401

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| 2-Butanone (MEK) | 20.0 | 18.7 | | ppb v/v | | 94 | 71 - 131 |
| Carbon disulfide | 20.0 | 18.3 | | ppb v/v | | 91 | 63 - 123 |
| Carbon tetrachloride | 20.0 | 19.6 | | ppb v/v | | 98 | 67 - 127 |
| Chlorobenzene | 20.0 | 20.2 | | ppb v/v | | 101 | 70 - 132 |
| Dibromochloromethane | 20.0 | 20.1 | | ppb v/v | | 100 | 68 - 128 |
| Chloroethane | 20.0 | 20.4 | | ppb v/v | | 102 | 70 - 131 |
| Chloroform | 20.0 | 19.2 | | ppb v/v | | 96 | 69 - 129 |
| Chloromethane | 20.0 | 19.0 | | ppb v/v | | 95 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.6 | | ppb v/v | | 103 | 68 - 131 |
| 1,2-Dichlorobenzene | 20.0 | 23.3 | | ppb v/v | | 116 | 73 - 143 |
| 1,3-Dichlorobenzene | 20.0 | 23.0 | | ppb v/v | | 115 | 77 - 136 |
| 1,4-Dichlorobenzene | 20.0 | 23.3 | | ppb v/v | | 117 | 73 - 143 |
| Dichlorodifluoromethane | 20.0 | 19.2 | | ppb v/v | | 96 | 69 - 129 |
| 1,1-Dichloroethane | 20.0 | 18.4 | | ppb v/v | | 92 | 65 - 125 |
| 1,2-Dichloroethane | 20.0 | 19.0 | | ppb v/v | | 95 | 71 - 131 |
| 1,1-Dichloroethene | 20.0 | 16.9 | | ppb v/v | | 85 | 53 - 128 |
| cis-1,2-Dichloroethene | 20.0 | 19.5 | | ppb v/v | | 97 | 68 - 128 |
| trans-1,2-Dichloroethene | 20.0 | 18.3 | | ppb v/v | | 91 | 70 - 130 |
| 1,2-Dichloropropane | 20.0 | 19.9 | | ppb v/v | | 100 | 74 - 128 |
| cis-1,3-Dichloropropene | 20.0 | 21.8 | | ppb v/v | | 109 | 78 - 132 |
| trans-1,3-Dichloropropene | 20.0 | 18.3 | | ppb v/v | | 92 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 20.7 | | ppb v/v | | 103 | 64 - 124 |
| Ethylbenzene | 20.0 | 20.4 | | ppb v/v | | 102 | 76 - 136 |
| 4-Ethyltoluene | 20.0 | 21.3 | | ppb v/v | | 106 | 62 - 136 |
| Hexachlorobutadiene | 20.0 | 22.5 | | ppb v/v | | 112 | 42 - 150 |
| 2-Hexanone | 20.0 | 20.9 | | ppb v/v | | 105 | 70 - 128 |
| Methylene Chloride | 20.0 | 16.2 | | ppb v/v | | 81 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 19.1 | | ppb v/v | | 96 | 73 - 133 |
| Styrene | 20.0 | 21.6 | | ppb v/v | | 108 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 21.4 | | ppb v/v | | 107 | 75 - 135 |
| Tetrachloroethene | 20.0 | 19.9 | | ppb v/v | | 100 | 56 - 138 |
| Toluene | 20.0 | 19.9 | | ppb v/v | | 100 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 20.0 | 25.6 | | ppb v/v | | 128 | 59 - 150 |
| 1,1,1-Trichloroethane | 20.0 | 19.3 | | ppb v/v | | 97 | 65 - 124 |
| 1,1,2-Trichloroethane | 20.0 | 20.7 | | ppb v/v | | 104 | 71 - 131 |
| Trichloroethene | 20.0 | 20.1 | | ppb v/v | | 100 | 64 - 127 |
| 1,4-Dioxane | 20.0 | 21.3 | | ppb v/v | | 106 | 55 - 141 |
| Trichlorofluoromethane | 20.0 | 19.9 | | ppb v/v | | 99 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 17.8 | | ppb v/v | | 89 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.2 | | ppb v/v | | 106 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.5 | | ppb v/v | | 102 | 65 - 136 |
| Vinyl acetate | 20.0 | 19.1 | | ppb v/v | | 95 | 77 - 134 |
| Vinyl chloride | 20.0 | 20.2 | | ppb v/v | | 101 | 69 - 129 |
| m,p-Xylene | 40.0 | 41.3 | | ppb v/v | | 103 | 75 - 138 |
| o-Xylene | 20.0 | 20.8 | | ppb v/v | | 104 | 77 - 132 |
| Naphthalene | 20.0 | 25.1 | | ppb v/v | | 126 | 58 - 150 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|-------|---|------|--------------|
| Acetone | 48 | 40.2 | | ug/m3 | | 85 | 71 - 131 |
| Benzene | 64 | 61.1 | | ug/m3 | | 96 | 68 - 128 |
| Benzyl chloride | 100 | 97.1 | | ug/m3 | | 94 | 58 - 120 |
| Bromodichloromethane | 130 | 130 | | ug/m3 | | 97 | 65 - 130 |
| Bromoform | 210 | 217 | | ug/m3 | | 105 | 64 - 144 |
| Bromomethane | 78 | 81.6 | | ug/m3 | | 105 | 70 - 131 |
| 2-Butanone (MEK) | 59 | 55.2 | | ug/m3 | | 94 | 71 - 131 |
| Carbon disulfide | 62 | 56.9 | | ug/m3 | | 91 | 63 - 123 |
| Carbon tetrachloride | 130 | 123 | | ug/m3 | | 98 | 67 - 127 |
| Chlorobenzene | 92 | 93.0 | | ug/m3 | | 101 | 70 - 132 |
| Dibromochloromethane | 170 | 171 | | ug/m3 | | 100 | 68 - 128 |
| Chloroethane | 53 | 53.8 | | ug/m3 | | 102 | 70 - 131 |
| Chloroform | 98 | 93.7 | | ug/m3 | | 96 | 69 - 129 |
| Chloromethane | 41 | 39.3 | | ug/m3 | | 95 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 150 | 158 | | ug/m3 | | 103 | 68 - 131 |
| 1,2-Dichlorobenzene | 120 | 140 | | ug/m3 | | 116 | 73 - 143 |
| 1,3-Dichlorobenzene | 120 | 138 | | ug/m3 | | 115 | 77 - 136 |
| 1,4-Dichlorobenzene | 120 | 140 | | ug/m3 | | 117 | 73 - 143 |
| Dichlorodifluoromethane | 99 | 95.1 | | ug/m3 | | 96 | 69 - 129 |
| 1,1-Dichloroethane | 81 | 74.3 | | ug/m3 | | 92 | 65 - 125 |
| 1,2-Dichloroethane | 81 | 76.9 | | ug/m3 | | 95 | 71 - 131 |
| 1,1-Dichloroethene | 79 | 67.1 | | ug/m3 | | 85 | 53 - 128 |
| cis-1,2-Dichloroethene | 79 | 77.3 | | ug/m3 | | 97 | 68 - 128 |
| trans-1,2-Dichloroethene | 79 | 72.4 | | ug/m3 | | 91 | 70 - 130 |
| 1,2-Dichloropropane | 92 | 92.0 | | ug/m3 | | 100 | 74 - 128 |
| cis-1,3-Dichloropropene | 91 | 98.8 | | ug/m3 | | 109 | 78 - 132 |
| trans-1,3-Dichloropropene | 91 | 83.2 | | ug/m3 | | 92 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 144 | | ug/m3 | | 103 | 64 - 124 |
| Ethylbenzene | 87 | 88.7 | | ug/m3 | | 102 | 76 - 136 |
| 4-Ethyltoluene | 98 | 105 | | ug/m3 | | 106 | 62 - 136 |
| Hexachlorobutadiene | 210 | 240 | | ug/m3 | | 112 | 42 - 150 |
| 2-Hexanone | 82 | 85.8 | | ug/m3 | | 105 | 70 - 128 |
| Methylene Chloride | 69 | 56.3 | | ug/m3 | | 81 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 78.3 | | ug/m3 | | 96 | 73 - 133 |
| Styrene | 85 | 92.1 | | ug/m3 | | 108 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 140 | 147 | | ug/m3 | | 107 | 75 - 135 |
| Tetrachloroethene | 140 | 135 | | ug/m3 | | 100 | 56 - 138 |
| Toluene | 75 | 75.0 | | ug/m3 | | 100 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 150 | 190 | | ug/m3 | | 128 | 59 - 150 |
| 1,1,1-Trichloroethane | 110 | 106 | | ug/m3 | | 97 | 65 - 124 |
| 1,1,2-Trichloroethane | 110 | 113 | | ug/m3 | | 104 | 71 - 131 |
| Trichloroethene | 110 | 108 | | ug/m3 | | 100 | 64 - 127 |
| 1,4-Dioxane | 72 | 76.7 | | ug/m3 | | 106 | 55 - 141 |
| Trichlorofluoromethane | 110 | 112 | | ug/m3 | | 99 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 137 | | ug/m3 | | 89 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 98 | 104 | | ug/m3 | | 106 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 98 | 101 | | ug/m3 | | 102 | 65 - 136 |
| Vinyl acetate | 70 | 67.1 | | ug/m3 | | 95 | 77 - 134 |
| Vinyl chloride | 51 | 51.7 | | ug/m3 | | 101 | 69 - 129 |
| m,p-Xylene | 170 | 179 | | ug/m3 | | 103 | 75 - 138 |
| o-Xylene | 87 | 90.3 | | ug/m3 | | 104 | 77 - 132 |
| Naphthalene | 100 | 132 | | ug/m3 | | 126 | 58 - 150 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCS 320-133401/3

Matrix: Air

Analysis Batch: 133401

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |

Lab Sample ID: LCSD 320-133401/4

Matrix: Air

Analysis Batch: 133401

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|----------------|----------------|-------------------|---------|---|------|-----------------|-----|--------------|
| Acetone | 20.0 | 17.2 | | ppb v/v | | 86 | 71 - 131 | 1 | 25 |
| Benzene | 20.0 | 19.5 | | ppb v/v | | 97 | 68 - 128 | 2 | 25 |
| Benzyl chloride | 20.0 | 19.2 | | ppb v/v | | 96 | 58 - 120 | 2 | 25 |
| Bromodichloromethane | 20.0 | 19.5 | | ppb v/v | | 98 | 65 - 130 | 1 | 25 |
| Bromoform | 20.0 | 21.1 | | ppb v/v | | 105 | 64 - 144 | 0 | 25 |
| Bromomethane | 20.0 | 21.4 | | ppb v/v | | 107 | 70 - 131 | 2 | 25 |
| 2-Butanone (MEK) | 20.0 | 19.0 | | ppb v/v | | 95 | 71 - 131 | 2 | 25 |
| Carbon disulfide | 20.0 | 18.6 | | ppb v/v | | 93 | 63 - 123 | 2 | 25 |
| Carbon tetrachloride | 20.0 | 19.7 | | ppb v/v | | 99 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 20.0 | 20.2 | | ppb v/v | | 101 | 70 - 132 | 0 | 25 |
| Dibromochloromethane | 20.0 | 20.2 | | ppb v/v | | 101 | 68 - 128 | 1 | 25 |
| Chloroethane | 20.0 | 20.5 | | ppb v/v | | 102 | 70 - 131 | 0 | 25 |
| Chloroform | 20.0 | 19.4 | | ppb v/v | | 97 | 69 - 129 | 1 | 25 |
| Chloromethane | 20.0 | 19.1 | | ppb v/v | | 95 | 67 - 127 | 0 | 25 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.6 | | ppb v/v | | 103 | 68 - 131 | 0 | 25 |
| 1,2-Dichlorobenzene | 20.0 | 23.6 | | ppb v/v | | 118 | 73 - 143 | 1 | 25 |
| 1,3-Dichlorobenzene | 20.0 | 23.2 | | ppb v/v | | 116 | 77 - 136 | 1 | 25 |
| 1,4-Dichlorobenzene | 20.0 | 23.6 | | ppb v/v | | 118 | 73 - 143 | 1 | 25 |
| Dichlorodifluoromethane | 20.0 | 19.5 | | ppb v/v | | 97 | 69 - 129 | 1 | 25 |
| 1,1-Dichloroethane | 20.0 | 18.6 | | ppb v/v | | 93 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 20.0 | 19.0 | | ppb v/v | | 95 | 71 - 131 | 0 | 25 |
| 1,1-Dichloroethene | 20.0 | 17.3 | | ppb v/v | | 87 | 53 - 128 | 2 | 25 |
| cis-1,2-Dichloroethene | 20.0 | 19.7 | | ppb v/v | | 98 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 20.0 | 18.6 | | ppb v/v | | 93 | 70 - 130 | 2 | 25 |
| 1,2-Dichloropropane | 20.0 | 20.1 | | ppb v/v | | 101 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 20.0 | 21.8 | | ppb v/v | | 109 | 78 - 132 | 0 | 25 |
| trans-1,3-Dichloropropene | 20.0 | 18.4 | | ppb v/v | | 92 | 56 - 136 | 0 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 20.8 | | ppb v/v | | 104 | 64 - 124 | 1 | 25 |
| Ethylbenzene | 20.0 | 20.5 | | ppb v/v | | 102 | 76 - 136 | 0 | 25 |
| 4-Ethyltoluene | 20.0 | 20.2 | | ppb v/v | | 101 | 62 - 136 | 5 | 25 |
| Hexachlorobutadiene | 20.0 | 22.4 | | ppb v/v | | 112 | 42 - 150 | 1 | 25 |
| 2-Hexanone | 20.0 | 21.1 | | ppb v/v | | 106 | 70 - 128 | 1 | 25 |
| Methylene Chloride | 20.0 | 16.4 | | ppb v/v | | 82 | 65 - 125 | 1 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 19.2 | | ppb v/v | | 96 | 73 - 133 | 1 | 25 |
| Styrene | 20.0 | 21.7 | | ppb v/v | | 108 | 76 - 144 | 0 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 21.4 | | ppb v/v | | 107 | 75 - 135 | 0 | 25 |
| Tetrachloroethene | 20.0 | 20.2 | | ppb v/v | | 101 | 56 - 138 | 1 | 25 |
| Toluene | 20.0 | 20.1 | | ppb v/v | | 101 | 71 - 132 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCSD 320-133401/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133401

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| 1,2,4-Trichlorobenzene | 20.0 | 25.3 | | ppb v/v | | 126 | 59 - 150 | 1 | 25 |
| 1,1,1-Trichloroethane | 20.0 | 19.6 | | ppb v/v | | 98 | 65 - 124 | 1 | 25 |
| 1,1,2-Trichloroethane | 20.0 | 20.8 | | ppb v/v | | 104 | 71 - 131 | 0 | 25 |
| Trichloroethene | 20.0 | 20.2 | | ppb v/v | | 101 | 64 - 127 | 1 | 25 |
| 1,4-Dioxane | 20.0 | 21.4 | | ppb v/v | | 107 | 55 - 141 | 1 | 25 |
| Trichlorofluoromethane | 20.0 | 20.2 | | ppb v/v | | 101 | 68 - 128 | 2 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 18.1 | | ppb v/v | | 90 | 50 - 132 | 1 | 25 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.3 | | ppb v/v | | 107 | 61 - 145 | 0 | 25 |
| 1,3,5-Trimethylbenzene | 20.0 | 21.6 | | ppb v/v | | 108 | 65 - 136 | 5 | 25 |
| Vinyl acetate | 20.0 | 19.2 | | ppb v/v | | 96 | 77 - 134 | 1 | 25 |
| Vinyl chloride | 20.0 | 20.2 | | ppb v/v | | 101 | 69 - 129 | 0 | 25 |
| m,p-Xylene | 40.0 | 41.5 | | ppb v/v | | 104 | 75 - 138 | 1 | 25 |
| o-Xylene | 20.0 | 20.9 | | ppb v/v | | 104 | 77 - 132 | 0 | 25 |
| Naphthalene | 20.0 | 24.8 | | ppb v/v | | 124 | 58 - 150 | 1 | 25 |
| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
| Acetone | 48 | 40.8 | | ug/m3 | | 86 | 71 - 131 | 1 | 25 |
| Benzene | 64 | 62.2 | | ug/m3 | | 97 | 68 - 128 | 2 | 25 |
| Benzyl chloride | 100 | 99.2 | | ug/m3 | | 96 | 58 - 120 | 2 | 25 |
| Bromodichloromethane | 130 | 131 | | ug/m3 | | 98 | 65 - 130 | 1 | 25 |
| Bromoform | 210 | 218 | | ug/m3 | | 105 | 64 - 144 | 0 | 25 |
| Bromomethane | 78 | 83.2 | | ug/m3 | | 107 | 70 - 131 | 2 | 25 |
| 2-Butanone (MEK) | 59 | 56.1 | | ug/m3 | | 95 | 71 - 131 | 2 | 25 |
| Carbon disulfide | 62 | 57.8 | | ug/m3 | | 93 | 63 - 123 | 2 | 25 |
| Carbon tetrachloride | 130 | 124 | | ug/m3 | | 99 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 92 | 93.2 | | ug/m3 | | 101 | 70 - 132 | 0 | 25 |
| Dibromochloromethane | 170 | 172 | | ug/m3 | | 101 | 68 - 128 | 1 | 25 |
| Chloroethane | 53 | 54.1 | | ug/m3 | | 102 | 70 - 131 | 0 | 25 |
| Chloroform | 98 | 94.5 | | ug/m3 | | 97 | 69 - 129 | 1 | 25 |
| Chloromethane | 41 | 39.4 | | ug/m3 | | 95 | 67 - 127 | 0 | 25 |
| 1,2-Dibromoethane (EDB) | 150 | 158 | | ug/m3 | | 103 | 68 - 131 | 0 | 25 |
| 1,2-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 73 - 143 | 1 | 25 |
| 1,3-Dichlorobenzene | 120 | 140 | | ug/m3 | | 116 | 77 - 136 | 1 | 25 |
| 1,4-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 73 - 143 | 1 | 25 |
| Dichlorodifluoromethane | 99 | 96.4 | | ug/m3 | | 97 | 69 - 129 | 1 | 25 |
| 1,1-Dichloroethane | 81 | 75.3 | | ug/m3 | | 93 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 81 | 76.9 | | ug/m3 | | 95 | 71 - 131 | 0 | 25 |
| 1,1-Dichloroethene | 79 | 68.7 | | ug/m3 | | 87 | 53 - 128 | 2 | 25 |
| cis-1,2-Dichloroethene | 79 | 78.0 | | ug/m3 | | 98 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 79 | 73.9 | | ug/m3 | | 93 | 70 - 130 | 2 | 25 |
| 1,2-Dichloropropane | 92 | 93.1 | | ug/m3 | | 101 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 91 | 98.8 | | ug/m3 | | 109 | 78 - 132 | 0 | 25 |
| trans-1,3-Dichloropropene | 91 | 83.4 | | ug/m3 | | 92 | 56 - 136 | 0 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 145 | | ug/m3 | | 104 | 64 - 124 | 1 | 25 |
| Ethylbenzene | 87 | 89.0 | | ug/m3 | | 102 | 76 - 136 | 0 | 25 |
| 4-Ethyltoluene | 98 | 99.3 | | ug/m3 | | 101 | 62 - 136 | 5 | 25 |
| Hexachlorobutadiene | 210 | 238 | | ug/m3 | | 112 | 42 - 150 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCSD 320-133401/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133401

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| 2-Hexanone | 82 | 86.6 | | ug/m3 | | 106 | 70 - 128 | 1 | 25 |
| Methylene Chloride | 69 | 57.0 | | ug/m3 | | 82 | 65 - 125 | 1 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 78.8 | | ug/m3 | | 96 | 73 - 133 | 1 | 25 |
| Styrene | 85 | 92.4 | | ug/m3 | | 108 | 76 - 144 | 0 | 25 |
| 1,1,2,2-Tetrachloroethane | 140 | 147 | | ug/m3 | | 107 | 75 - 135 | 0 | 25 |
| Tetrachloroethene | 140 | 137 | | ug/m3 | | 101 | 56 - 138 | 1 | 25 |
| Toluene | 75 | 75.8 | | ug/m3 | | 101 | 71 - 132 | 1 | 25 |
| 1,2,4-Trichlorobenzene | 150 | 188 | | ug/m3 | | 126 | 59 - 150 | 1 | 25 |
| 1,1,1-Trichloroethane | 110 | 107 | | ug/m3 | | 98 | 65 - 124 | 1 | 25 |
| 1,1,2-Trichloroethane | 110 | 114 | | ug/m3 | | 104 | 71 - 131 | 0 | 25 |
| Trichloroethene | 110 | 109 | | ug/m3 | | 101 | 64 - 127 | 1 | 25 |
| 1,4-Dioxane | 72 | 77.1 | | ug/m3 | | 107 | 55 - 141 | 1 | 25 |
| Trichlorofluoromethane | 110 | 114 | | ug/m3 | | 101 | 68 - 128 | 2 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 138 | | ug/m3 | | 90 | 50 - 132 | 1 | 25 |
| 1,2,4-Trimethylbenzene | 98 | 105 | | ug/m3 | | 107 | 61 - 145 | 0 | 25 |
| 1,3,5-Trimethylbenzene | 98 | 106 | | ug/m3 | | 108 | 65 - 136 | 5 | 25 |
| Vinyl acetate | 70 | 67.6 | | ug/m3 | | 96 | 77 - 134 | 1 | 25 |
| Vinyl chloride | 51 | 51.8 | | ug/m3 | | 101 | 69 - 129 | 0 | 25 |
| m,p-Xylene | 170 | 180 | | ug/m3 | | 104 | 75 - 138 | 1 | 25 |
| o-Xylene | 87 | 90.6 | | ug/m3 | | 104 | 77 - 132 | 0 | 25 |
| Naphthalene | 100 | 130 | | ug/m3 | | 124 | 58 - 150 | 1 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 |

Lab Sample ID: MB 320-133595/6

Client Sample ID: Method Blank

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133595

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|--------------|------|-----|---------|---|----------|----------------|---------|
| Acetone | ND | | 5.0 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Benzene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Benzyl chloride | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Bromodichloromethane | ND | | 0.30 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Bromoform | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Bromomethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 2-Butanone (MEK) | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Carbon disulfide | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Carbon tetrachloride | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Chlorobenzene | ND | | 0.30 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Dibromochloromethane | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Chloroethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Chloroform | ND | | 0.30 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Chloromethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: MB 320-133595/6
Matrix: Air
Analysis Batch: 133595

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|------|-----|---------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Dichlorodifluoromethane | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,1-Dichloroethane | ND | | 0.30 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,2-Dichloroethane | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,1-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,2-Dichloropropane | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Ethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 4-Ethyltoluene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 2-Hexanone | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Methylene Chloride | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Styrene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Tetrachloroethene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Toluene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.30 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Trichloroethene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,4-Dioxane | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Trichlorofluoromethane | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Vinyl acetate | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Vinyl chloride | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| m,p-Xylene | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| o-Xylene | ND | | 0.40 | | ppb v/v | | | 10/20/16 16:55 | 1 |
| Naphthalene | ND | | 0.80 | | ppb v/v | | | 10/20/16 16:55 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| Acetone | ND | | 12 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Benzene | ND | | 1.3 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Benzyl chloride | ND | | 4.1 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Bromoform | ND | | 4.1 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Bromomethane | ND | | 3.1 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 2-Butanone (MEK) | ND | | 2.4 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Carbon disulfide | ND | | 2.5 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/m3 | | | 10/20/16 16:55 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: MB 320-133595/6
Matrix: Air
Analysis Batch: 133595

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| Chlorobenzene | ND | | 1.4 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Dibromochloromethane | ND | | 3.4 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Chloroethane | ND | | 2.1 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Chloroform | ND | | 1.5 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Chloromethane | ND | | 1.7 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,1-Dichloroethane | ND | | 1.2 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,1-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,2-Dichloropropane | ND | | 1.8 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.8 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Ethylbenzene | ND | | 1.7 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 4-Ethyltoluene | ND | | 2.0 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Hexachlorobutadiene | ND | | 21 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 2-Hexanone | ND | | 1.6 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Methylene Chloride | ND | | 1.4 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Styrene | ND | | 1.7 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Tetrachloroethene | ND | | 2.7 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Toluene | ND | | 1.5 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Trichloroethene | ND | | 2.1 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,4-Dioxane | ND | | 2.9 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Trichlorofluoromethane | ND | | 2.2 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.9 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Vinyl acetate | ND | | 2.8 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| m,p-Xylene | ND | | 3.5 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| o-Xylene | ND | | 1.7 | | ug/m3 | | | 10/20/16 16:55 | 1 |
| Naphthalene | ND | | 4.2 | | ug/m3 | | | 10/20/16 16:55 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 87 | | 70 - 130 | | 10/20/16 16:55 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 | | 10/20/16 16:55 | 1 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | 10/20/16 16:55 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

Lab Sample ID: LCS 320-133595/3
Matrix: Air
Analysis Batch: 133595

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| Acetone | 20.0 | 19.5 | | ppb v/v | | 97 | 71 - 131 |
| Benzene | 20.0 | 21.6 | | ppb v/v | | 108 | 68 - 128 |
| Benzyl chloride | 20.0 | 16.5 | | ppb v/v | | 82 | 58 - 120 |
| Bromodichloromethane | 20.0 | 22.2 | | ppb v/v | | 111 | 65 - 130 |
| Bromoform | 20.0 | 20.0 | | ppb v/v | | 100 | 64 - 144 |
| Bromomethane | 20.0 | 21.8 | | ppb v/v | | 109 | 70 - 131 |
| 2-Butanone (MEK) | 20.0 | 22.6 | | ppb v/v | | 113 | 71 - 131 |
| Carbon disulfide | 20.0 | 20.5 | | ppb v/v | | 103 | 63 - 123 |
| Carbon tetrachloride | 20.0 | 22.1 | | ppb v/v | | 110 | 67 - 127 |
| Chlorobenzene | 20.0 | 19.6 | | ppb v/v | | 98 | 70 - 132 |
| Dibromochloromethane | 20.0 | 21.0 | | ppb v/v | | 105 | 68 - 128 |
| Chloroethane | 20.0 | 23.0 | | ppb v/v | | 115 | 70 - 131 |
| Chloroform | 20.0 | 22.4 | | ppb v/v | | 112 | 69 - 129 |
| Chloromethane | 20.0 | 21.5 | | ppb v/v | | 107 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 20.0 | 21.2 | | ppb v/v | | 106 | 68 - 131 |
| 1,2-Dichlorobenzene | 20.0 | 17.1 | | ppb v/v | | 85 | 73 - 143 |
| 1,3-Dichlorobenzene | 20.0 | 16.9 | | ppb v/v | | 84 | 77 - 136 |
| 1,4-Dichlorobenzene | 20.0 | 17.1 | | ppb v/v | | 86 | 73 - 143 |
| Dichlorodifluoromethane | 20.0 | 21.9 | | ppb v/v | | 110 | 69 - 129 |
| 1,1-Dichloroethane | 20.0 | 22.3 | | ppb v/v | | 111 | 65 - 125 |
| 1,2-Dichloroethane | 20.0 | 22.3 | | ppb v/v | | 112 | 71 - 131 |
| 1,1-Dichloroethene | 20.0 | 20.2 | | ppb v/v | | 101 | 53 - 128 |
| cis-1,2-Dichloroethene | 20.0 | 21.5 | | ppb v/v | | 107 | 68 - 128 |
| trans-1,2-Dichloroethene | 20.0 | 22.4 | | ppb v/v | | 112 | 70 - 130 |
| 1,2-Dichloropropane | 20.0 | 23.3 | | ppb v/v | | 117 | 74 - 128 |
| cis-1,3-Dichloropropene | 20.0 | 24.4 | | ppb v/v | | 122 | 78 - 132 |
| trans-1,3-Dichloropropene | 20.0 | 20.5 | | ppb v/v | | 102 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 21.3 | | ppb v/v | | 107 | 64 - 124 |
| Ethylbenzene | 20.0 | 19.3 | | ppb v/v | | 96 | 76 - 136 |
| 4-Ethyltoluene | 20.0 | 14.1 | | ppb v/v | | 70 | 62 - 136 |
| Hexachlorobutadiene | 20.0 | 21.3 | | ppb v/v | | 106 | 42 - 150 |
| 2-Hexanone | 20.0 | 23.4 | | ppb v/v | | 117 | 70 - 128 |
| Methylene Chloride | 20.0 | 20.4 | | ppb v/v | | 102 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 22.0 | | ppb v/v | | 110 | 73 - 133 |
| Styrene | 20.0 | 19.1 | | ppb v/v | | 96 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 19.9 | | ppb v/v | | 99 | 75 - 135 |
| Tetrachloroethene | 20.0 | 19.7 | | ppb v/v | | 99 | 56 - 138 |
| Toluene | 20.0 | 20.9 | | ppb v/v | | 105 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 20.0 | 23.8 | | ppb v/v | | 119 | 59 - 150 |
| 1,1,1-Trichloroethane | 20.0 | 21.8 | | ppb v/v | | 109 | 65 - 124 |
| 1,1,2-Trichloroethane | 20.0 | 22.0 | | ppb v/v | | 110 | 71 - 131 |
| Trichloroethene | 20.0 | 21.3 | | ppb v/v | | 107 | 64 - 127 |
| 1,4-Dioxane | 20.0 | 21.1 | | ppb v/v | | 106 | 55 - 141 |
| Trichlorofluoromethane | 20.0 | 22.3 | | ppb v/v | | 111 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 19.9 | | ppb v/v | | 100 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 20.0 | 15.2 | | ppb v/v | | 76 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 20.0 | 15.7 | | ppb v/v | | 79 | 65 - 136 |
| Vinyl acetate | 20.0 | 24.8 | | ppb v/v | | 124 | 77 - 134 |
| Vinyl chloride | 20.0 | 21.9 | | ppb v/v | | 110 | 69 - 129 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCS 320-133595/3

Matrix: Air

Analysis Batch: 133595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| m,p-Xylene | 40.0 | 38.4 | | ppb v/v | | 96 | 75 - 138 |
| o-Xylene | 20.0 | 18.5 | | ppb v/v | | 92 | 77 - 132 |
| Naphthalene | 20.0 | 24.3 | | ppb v/v | | 122 | 58 - 150 |
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
| Acetone | 48 | 46.3 | | ug/m3 | | 97 | 71 - 131 |
| Benzene | 64 | 69.0 | | ug/m3 | | 108 | 68 - 128 |
| Benzyl chloride | 100 | 85.4 | | ug/m3 | | 82 | 58 - 120 |
| Bromodichloromethane | 130 | 148 | | ug/m3 | | 111 | 65 - 130 |
| Bromoform | 210 | 207 | | ug/m3 | | 100 | 64 - 144 |
| Bromomethane | 78 | 84.5 | | ug/m3 | | 109 | 70 - 131 |
| 2-Butanone (MEK) | 59 | 66.5 | | ug/m3 | | 113 | 71 - 131 |
| Carbon disulfide | 62 | 64.0 | | ug/m3 | | 103 | 63 - 123 |
| Carbon tetrachloride | 130 | 139 | | ug/m3 | | 110 | 67 - 127 |
| Chlorobenzene | 92 | 90.1 | | ug/m3 | | 98 | 70 - 132 |
| Dibromochloromethane | 170 | 179 | | ug/m3 | | 105 | 68 - 128 |
| Chloroethane | 53 | 60.7 | | ug/m3 | | 115 | 70 - 131 |
| Chloroform | 98 | 109 | | ug/m3 | | 112 | 69 - 129 |
| Chloromethane | 41 | 44.4 | | ug/m3 | | 107 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 150 | 163 | | ug/m3 | | 106 | 68 - 131 |
| 1,2-Dichlorobenzene | 120 | 103 | | ug/m3 | | 85 | 73 - 143 |
| 1,3-Dichlorobenzene | 120 | 101 | | ug/m3 | | 84 | 77 - 136 |
| 1,4-Dichlorobenzene | 120 | 103 | | ug/m3 | | 86 | 73 - 143 |
| Dichlorodifluoromethane | 99 | 109 | | ug/m3 | | 110 | 69 - 129 |
| 1,1-Dichloroethane | 81 | 90.1 | | ug/m3 | | 111 | 65 - 125 |
| 1,2-Dichloroethane | 81 | 90.3 | | ug/m3 | | 112 | 71 - 131 |
| 1,1-Dichloroethene | 79 | 80.0 | | ug/m3 | | 101 | 53 - 128 |
| cis-1,2-Dichloroethene | 79 | 85.2 | | ug/m3 | | 107 | 68 - 128 |
| trans-1,2-Dichloroethene | 79 | 88.9 | | ug/m3 | | 112 | 70 - 130 |
| 1,2-Dichloropropane | 92 | 108 | | ug/m3 | | 117 | 74 - 128 |
| cis-1,3-Dichloropropene | 91 | 111 | | ug/m3 | | 122 | 78 - 132 |
| trans-1,3-Dichloropropene | 91 | 92.9 | | ug/m3 | | 102 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 149 | | ug/m3 | | 107 | 64 - 124 |
| Ethylbenzene | 87 | 83.7 | | ug/m3 | | 96 | 76 - 136 |
| 4-Ethyltoluene | 98 | 69.2 | | ug/m3 | | 70 | 62 - 136 |
| Hexachlorobutadiene | 210 | 227 | | ug/m3 | | 106 | 42 - 150 |
| 2-Hexanone | 82 | 96.1 | | ug/m3 | | 117 | 70 - 128 |
| Methylene Chloride | 69 | 71.0 | | ug/m3 | | 102 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 90.3 | | ug/m3 | | 110 | 73 - 133 |
| Styrene | 85 | 81.5 | | ug/m3 | | 96 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 140 | 137 | | ug/m3 | | 99 | 75 - 135 |
| Tetrachloroethene | 140 | 134 | | ug/m3 | | 99 | 56 - 138 |
| Toluene | 75 | 78.9 | | ug/m3 | | 105 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 150 | 176 | | ug/m3 | | 119 | 59 - 150 |
| 1,1,1-Trichloroethane | 110 | 119 | | ug/m3 | | 109 | 65 - 124 |
| 1,1,2-Trichloroethane | 110 | 120 | | ug/m3 | | 110 | 71 - 131 |
| Trichloroethene | 110 | 115 | | ug/m3 | | 107 | 64 - 127 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCS 320-133595/3

Matrix: Air

Analysis Batch: 133595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,4-Dioxane | 72 | 76.2 | | ug/m3 | | 106 | 55 - 141 |
| Trichlorofluoromethane | 110 | 125 | | ug/m3 | | 111 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 153 | | ug/m3 | | 100 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 98 | 74.6 | | ug/m3 | | 76 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 98 | 77.4 | | ug/m3 | | 79 | 65 - 136 |
| Vinyl acetate | 70 | 87.4 | | ug/m3 | | 124 | 77 - 134 |
| Vinyl chloride | 51 | 56.0 | | ug/m3 | | 110 | 69 - 129 |
| m,p-Xylene | 170 | 167 | | ug/m3 | | 96 | 75 - 138 |
| o-Xylene | 87 | 80.3 | | ug/m3 | | 92 | 77 - 132 |
| Naphthalene | 100 | 128 | | ug/m3 | | 122 | 58 - 150 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 70 - 130 |
| Toluene-d8 (Surr) | 103 | | 70 - 130 |

Lab Sample ID: LCSD 320-133595/4

Matrix: Air

Analysis Batch: 133595

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| Acetone | 20.0 | 19.0 | | ppb v/v | | 95 | 71 - 131 | 3 | 25 |
| Benzene | 20.0 | 22.1 | | ppb v/v | | 111 | 68 - 128 | 2 | 25 |
| Benzyl chloride | 20.0 | 16.6 | | ppb v/v | | 83 | 58 - 120 | 1 | 25 |
| Bromodichloromethane | 20.0 | 21.9 | | ppb v/v | | 110 | 65 - 130 | 1 | 25 |
| Bromoform | 20.0 | 20.2 | | ppb v/v | | 101 | 64 - 144 | 1 | 25 |
| Bromomethane | 20.0 | 22.0 | | ppb v/v | | 110 | 70 - 131 | 1 | 25 |
| 2-Butanone (MEK) | 20.0 | 22.5 | | ppb v/v | | 113 | 71 - 131 | 0 | 25 |
| Carbon disulfide | 20.0 | 21.0 | | ppb v/v | | 105 | 63 - 123 | 2 | 25 |
| Carbon tetrachloride | 20.0 | 21.9 | | ppb v/v | | 109 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 20.0 | 20.0 | | ppb v/v | | 100 | 70 - 132 | 2 | 25 |
| Dibromochloromethane | 20.0 | 20.8 | | ppb v/v | | 104 | 68 - 128 | 1 | 25 |
| Chloroethane | 20.0 | 23.0 | | ppb v/v | | 115 | 70 - 131 | 0 | 25 |
| Chloroform | 20.0 | 22.2 | | ppb v/v | | 111 | 69 - 129 | 1 | 25 |
| Chloromethane | 20.0 | 21.2 | | ppb v/v | | 106 | 67 - 127 | 1 | 25 |
| 1,2-Dibromoethane (EDB) | 20.0 | 21.2 | | ppb v/v | | 106 | 68 - 131 | 0 | 25 |
| 1,2-Dichlorobenzene | 20.0 | 17.2 | | ppb v/v | | 86 | 73 - 143 | 1 | 25 |
| 1,3-Dichlorobenzene | 20.0 | 17.0 | | ppb v/v | | 85 | 77 - 136 | 1 | 25 |
| 1,4-Dichlorobenzene | 20.0 | 17.2 | | ppb v/v | | 86 | 73 - 143 | 0 | 25 |
| Dichlorodifluoromethane | 20.0 | 22.3 | | ppb v/v | | 112 | 69 - 129 | 2 | 25 |
| 1,1-Dichloroethane | 20.0 | 22.1 | | ppb v/v | | 110 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 20.0 | 22.0 | | ppb v/v | | 110 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 20.0 | 20.2 | | ppb v/v | | 101 | 53 - 128 | 0 | 25 |
| cis-1,2-Dichloroethene | 20.0 | 21.6 | | ppb v/v | | 108 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 20.0 | 22.2 | | ppb v/v | | 111 | 70 - 130 | 1 | 25 |
| 1,2-Dichloropropane | 20.0 | 23.0 | | ppb v/v | | 115 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 20.0 | 24.8 | | ppb v/v | | 124 | 78 - 132 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCSD 320-133595/4

Matrix: Air

Analysis Batch: 133595

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| trans-1,3-Dichloropropene | 20.0 | 20.2 | | ppb v/v | | 101 | 56 - 136 | 1 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 21.4 | | ppb v/v | | 107 | 64 - 124 | 0 | 25 |
| Ethylbenzene | 20.0 | 20.0 | | ppb v/v | | 100 | 76 - 136 | 4 | 25 |
| 4-Ethyltoluene | 20.0 | 14.6 | | ppb v/v | | 73 | 62 - 136 | 4 | 25 |
| Hexachlorobutadiene | 20.0 | 22.3 | | ppb v/v | | 112 | 42 - 150 | 5 | 25 |
| 2-Hexanone | 20.0 | 23.5 | | ppb v/v | | 118 | 70 - 128 | 0 | 25 |
| Methylene Chloride | 20.0 | 20.0 | | ppb v/v | | 100 | 65 - 125 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 21.3 | | ppb v/v | | 107 | 73 - 133 | 3 | 25 |
| Styrene | 20.0 | 19.6 | | ppb v/v | | 98 | 76 - 144 | 2 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.2 | | ppb v/v | | 101 | 75 - 135 | 2 | 25 |
| Tetrachloroethene | 20.0 | 20.0 | | ppb v/v | | 100 | 56 - 138 | 1 | 25 |
| Toluene | 20.0 | 21.4 | | ppb v/v | | 107 | 71 - 132 | 2 | 25 |
| 1,2,4-Trichlorobenzene | 20.0 | 25.1 | | ppb v/v | | 126 | 59 - 150 | 6 | 25 |
| 1,1,1-Trichloroethane | 20.0 | 21.6 | | ppb v/v | | 108 | 65 - 124 | 1 | 25 |
| 1,1,2-Trichloroethane | 20.0 | 22.0 | | ppb v/v | | 110 | 71 - 131 | 0 | 25 |
| Trichloroethene | 20.0 | 21.3 | | ppb v/v | | 107 | 64 - 127 | 0 | 25 |
| 1,4-Dioxane | 20.0 | 21.5 | | ppb v/v | | 107 | 55 - 141 | 2 | 25 |
| Trichlorofluoromethane | 20.0 | 22.1 | | ppb v/v | | 110 | 68 - 128 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 20.3 | | ppb v/v | | 101 | 50 - 132 | 2 | 25 |
| 1,2,4-Trimethylbenzene | 20.0 | 15.6 | | ppb v/v | | 78 | 61 - 145 | 3 | 25 |
| 1,3,5-Trimethylbenzene | 20.0 | 15.5 | | ppb v/v | | 78 | 65 - 136 | 1 | 25 |
| Vinyl acetate | 20.0 | 24.5 | | ppb v/v | | 123 | 77 - 134 | 1 | 25 |
| Vinyl chloride | 20.0 | 22.1 | | ppb v/v | | 110 | 69 - 129 | 1 | 25 |
| m,p-Xylene | 40.0 | 39.4 | | ppb v/v | | 98 | 75 - 138 | 3 | 25 |
| o-Xylene | 20.0 | 18.9 | | ppb v/v | | 94 | 77 - 132 | 2 | 25 |
| Naphthalene | 20.0 | 25.6 | | ppb v/v | | 128 | 58 - 150 | 5 | 25 |
| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
| Acetone | 48 | 45.0 | | ug/m3 | | 95 | 71 - 131 | 3 | 25 |
| Benzene | 64 | 70.7 | | ug/m3 | | 111 | 68 - 128 | 2 | 25 |
| Benzyl chloride | 100 | 86.1 | | ug/m3 | | 83 | 58 - 120 | 1 | 25 |
| Bromodichloromethane | 130 | 147 | | ug/m3 | | 110 | 65 - 130 | 1 | 25 |
| Bromoform | 210 | 209 | | ug/m3 | | 101 | 64 - 144 | 1 | 25 |
| Bromomethane | 78 | 85.5 | | ug/m3 | | 110 | 70 - 131 | 1 | 25 |
| 2-Butanone (MEK) | 59 | 66.4 | | ug/m3 | | 113 | 71 - 131 | 0 | 25 |
| Carbon disulfide | 62 | 65.4 | | ug/m3 | | 105 | 63 - 123 | 2 | 25 |
| Carbon tetrachloride | 130 | 138 | | ug/m3 | | 109 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 92 | 91.9 | | ug/m3 | | 100 | 70 - 132 | 2 | 25 |
| Dibromochloromethane | 170 | 177 | | ug/m3 | | 104 | 68 - 128 | 1 | 25 |
| Chloroethane | 53 | 60.8 | | ug/m3 | | 115 | 70 - 131 | 0 | 25 |
| Chloroform | 98 | 109 | | ug/m3 | | 111 | 69 - 129 | 1 | 25 |
| Chloromethane | 41 | 43.8 | | ug/m3 | | 106 | 67 - 127 | 1 | 25 |
| 1,2-Dibromoethane (EDB) | 150 | 163 | | ug/m3 | | 106 | 68 - 131 | 0 | 25 |
| 1,2-Dichlorobenzene | 120 | 103 | | ug/m3 | | 86 | 73 - 143 | 1 | 25 |
| 1,3-Dichlorobenzene | 120 | 102 | | ug/m3 | | 85 | 77 - 136 | 1 | 25 |
| 1,4-Dichlorobenzene | 120 | 103 | | ug/m3 | | 86 | 73 - 143 | 0 | 25 |
| Dichlorodifluoromethane | 99 | 110 | | ug/m3 | | 112 | 69 - 129 | 2 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

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

Lab Sample ID: LCSD 320-133595/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133595

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| 1,1-Dichloroethane | 81 | 89.4 | | ug/m3 | | 110 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 81 | 89.2 | | ug/m3 | | 110 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 79 | 80.3 | | ug/m3 | | 101 | 53 - 128 | 0 | 25 |
| cis-1,2-Dichloroethene | 79 | 85.8 | | ug/m3 | | 108 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 79 | 88.2 | | ug/m3 | | 111 | 70 - 130 | 1 | 25 |
| 1,2-Dichloropropane | 92 | 106 | | ug/m3 | | 115 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 91 | 112 | | ug/m3 | | 124 | 78 - 132 | 1 | 25 |
| trans-1,3-Dichloropropene | 91 | 91.7 | | ug/m3 | | 101 | 56 - 136 | 1 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 150 | | ug/m3 | | 107 | 64 - 124 | 0 | 25 |
| Ethylbenzene | 87 | 86.6 | | ug/m3 | | 100 | 76 - 136 | 4 | 25 |
| 4-Ethyltoluene | 98 | 71.7 | | ug/m3 | | 73 | 62 - 136 | 4 | 25 |
| Hexachlorobutadiene | 210 | 238 | | ug/m3 | | 112 | 42 - 150 | 5 | 25 |
| 2-Hexanone | 82 | 96.3 | | ug/m3 | | 118 | 70 - 128 | 0 | 25 |
| Methylene Chloride | 69 | 69.6 | | ug/m3 | | 100 | 65 - 125 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 87.5 | | ug/m3 | | 107 | 73 - 133 | 3 | 25 |
| Styrene | 85 | 83.5 | | ug/m3 | | 98 | 76 - 144 | 2 | 25 |
| 1,1,2,2-Tetrachloroethane | 140 | 139 | | ug/m3 | | 101 | 75 - 135 | 2 | 25 |
| Tetrachloroethene | 140 | 136 | | ug/m3 | | 100 | 56 - 138 | 1 | 25 |
| Toluene | 75 | 80.5 | | ug/m3 | | 107 | 71 - 132 | 2 | 25 |
| 1,2,4-Trichlorobenzene | 150 | 186 | | ug/m3 | | 126 | 59 - 150 | 6 | 25 |
| 1,1,1-Trichloroethane | 110 | 118 | | ug/m3 | | 108 | 65 - 124 | 1 | 25 |
| 1,1,2-Trichloroethane | 110 | 120 | | ug/m3 | | 110 | 71 - 131 | 0 | 25 |
| Trichloroethene | 110 | 115 | | ug/m3 | | 107 | 64 - 127 | 0 | 25 |
| 1,4-Dioxane | 72 | 77.4 | | ug/m3 | | 107 | 55 - 141 | 2 | 25 |
| Trichlorofluoromethane | 110 | 124 | | ug/m3 | | 110 | 68 - 128 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 155 | | ug/m3 | | 101 | 50 - 132 | 2 | 25 |
| 1,2,4-Trimethylbenzene | 98 | 76.9 | | ug/m3 | | 78 | 61 - 145 | 3 | 25 |
| 1,3,5-Trimethylbenzene | 98 | 76.4 | | ug/m3 | | 78 | 65 - 136 | 1 | 25 |
| Vinyl acetate | 70 | 86.3 | | ug/m3 | | 123 | 77 - 134 | 1 | 25 |
| Vinyl chloride | 51 | 56.5 | | ug/m3 | | 110 | 69 - 129 | 1 | 25 |
| m,p-Xylene | 170 | 171 | | ug/m3 | | 98 | 75 - 138 | 3 | 25 |
| o-Xylene | 87 | 82.0 | | ug/m3 | | 94 | 77 - 132 | 2 | 25 |
| Naphthalene | 100 | 134 | | ug/m3 | | 128 | 58 - 150 | 5 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 70 - 130 |
| Toluene-d8 (Surr) | 104 | | 70 - 130 |

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

Method: D1946 - Fixed Gases in Air (GC)

Lab Sample ID: MB 320-133992/7

Matrix: Air

Analysis Batch: 133992

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.50 | | % v/v | | | 10/22/16 17:01 | 1 |
| Oxygen | ND | | 0.20 | | % v/v | | | 10/22/16 17:01 | 1 |

Lab Sample ID: MB 320-133992/8

Matrix: Air

Analysis Batch: 133992

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Helium | ND | | 0.10 | | % v/v | | | 10/22/16 17:13 | 1 |

Lab Sample ID: LCS 320-133992/2

Matrix: Air

Analysis Batch: 133992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|-------|---|------|--------------|
| Carbon Dioxide (TCD) | 25.5 | 27.2 | | % v/v | | 107 | 80 - 120 |

Lab Sample ID: LCS 320-133992/5

Matrix: Air

Analysis Batch: 133992

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Helium | 16.0 | 15.8 | | % v/v | | 99 | 80 - 120 |
| Oxygen | 17.1 | 15.3 | | % v/v | | 90 | 80 - 120 |

Lab Sample ID: LCSD 320-133992/3

Matrix: Air

Analysis Batch: 133992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Carbon Dioxide (TCD) | 25.5 | 27.4 | | % v/v | | 108 | 80 - 120 | 1 | 20 |

Lab Sample ID: LCSD 320-133992/6

Matrix: Air

Analysis Batch: 133992

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Helium | 16.0 | 15.9 | | % v/v | | 99 | 80 - 120 | 1 | 20 |
| Oxygen | 17.1 | 15.1 | | % v/v | | 88 | 80 - 120 | 1 | 20 |

Lab Sample ID: MB 320-134156/7

Matrix: Air

Analysis Batch: 134156

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Helium | ND | | 0.10 | | % v/v | | | 10/24/16 13:06 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22817-1

Method: D1946 - Fixed Gases in Air (GC) (Continued)

Lab Sample ID: MB 320-134156/8
Matrix: Air
Analysis Batch: 134156

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.50 | | % v/v | | | 10/24/16 13:16 | 1 |
| Oxygen | ND | | 0.20 | | % v/v | | | 10/24/16 13:16 | 1 |

Lab Sample ID: LCS 320-134156/2
Matrix: Air
Analysis Batch: 134156

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|-------|---|------|--------------|
| Carbon Dioxide (TCD) | 25.5 | 27.3 | | % v/v | | 107 | 80 - 120 |

Lab Sample ID: LCS 320-134156/5
Matrix: Air
Analysis Batch: 134156

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Helium | 16.0 | 15.8 | | % v/v | | 99 | 80 - 120 |
| Oxygen | 17.1 | 15.3 | | % v/v | | 89 | 80 - 120 |

Lab Sample ID: LCSD 320-134156/3
Matrix: Air
Analysis Batch: 134156

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Carbon Dioxide (TCD) | 25.5 | 27.5 | | % v/v | | 108 | 80 - 120 | 1 | 20 |

Lab Sample ID: LCSD 320-134156/6
Matrix: Air
Analysis Batch: 134156

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Helium | 16.0 | 15.7 | | % v/v | | 98 | 80 - 120 | 1 | 20 |
| Oxygen | 17.1 | 15.3 | | % v/v | | 89 | 80 - 120 | 0 | 20 |

QC Association Summary

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

TestAmerica Job ID: 320-22817-1

Air - GC/MS VOA

Analysis Batch: 133354

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22817-8 | SSV8 | Total/NA | Air | TO-15 | |
| 320-22817-9 | SSV9 | Total/NA | Air | TO-15 | |
| 320-22817-9 - DL | SSV9 | Total/NA | Air | TO-15 | |
| 320-22817-11 | SSV11 | Total/NA | Air | TO-15 | |
| MB 320-133354/7 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 320-133354/4 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 320-133354/5 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

Analysis Batch: 133401

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22817-1 | SSV1 | Total/NA | Air | TO-15 | |
| 320-22817-2 | SSV2 | Total/NA | Air | TO-15 | |
| 320-22817-3 | SSV3 | Total/NA | Air | TO-15 | |
| 320-22817-4 | SSV4 | Total/NA | Air | TO-15 | |
| MB 320-133401/6 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 320-133401/3 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 320-133401/4 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

Analysis Batch: 133595

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22817-5 | SSV5 | Total/NA | Air | TO-15 | |
| 320-22817-6 | SSV6 | Total/NA | Air | TO-15 | |
| 320-22817-7 | SSV7 | Total/NA | Air | TO-15 | |
| 320-22817-10 | SSV10 | Total/NA | Air | TO-15 | |
| 320-22817-12 | PSV5-5 | Total/NA | Air | TO-15 | |
| 320-22817-13 | PSV5-10 | Total/NA | Air | TO-15 | |
| MB 320-133595/6 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 320-133595/3 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 320-133595/4 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

Air - GC VOA

Analysis Batch: 133992

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22817-1 | SSV1 | Total/NA | Air | D1946 | |
| 320-22817-2 | SSV2 | Total/NA | Air | D1946 | |
| 320-22817-3 | SSV3 | Total/NA | Air | D1946 | |
| 320-22817-4 | SSV4 | Total/NA | Air | D1946 | |
| 320-22817-5 | SSV5 | Total/NA | Air | D1946 | |
| 320-22817-6 | SSV6 | Total/NA | Air | D1946 | |
| MB 320-133992/7 | Method Blank | Total/NA | Air | D1946 | |
| MB 320-133992/8 | Method Blank | Total/NA | Air | D1946 | |
| LCS 320-133992/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCS 320-133992/5 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 320-133992/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |
| LCSD 320-133992/6 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

Analysis Batch: 134156

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 320-22817-7 | SSV7 | Total/NA | Air | D1946 | |

TestAmerica Sacramento

QC Association Summary

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

TestAmerica Job ID: 320-22817-1

Air - GC VOA (Continued)

Analysis Batch: 134156 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22817-8 | SSV8 | Total/NA | Air | D1946 | |
| 320-22817-9 | SSV9 | Total/NA | Air | D1946 | |
| 320-22817-10 | SSV10 | Total/NA | Air | D1946 | |
| 320-22817-11 | SSV11 | Total/NA | Air | D1946 | |
| 320-22817-12 | PSV5-5 | Total/NA | Air | D1946 | |
| 320-22817-13 | PSV5-10 | Total/NA | Air | D1946 | |
| MB 320-134156/7 | Method Blank | Total/NA | Air | D1946 | |
| MB 320-134156/8 | Method Blank | Total/NA | Air | D1946 | |
| LCS 320-134156/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCS 320-134156/5 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 320-134156/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |
| LCSD 320-134156/6 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

Lab Chronicle

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV1
Date Collected: 10/18/16 04:21
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-1
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 | | 4.44 | 101 mL | 250 mL | 133401 | 10/20/16 04:35 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.79 | 50 mL | 50 mL | 133992 | 10/22/16 17:29 | AMAO | TAL SAC |

Client Sample ID: SSV2
Date Collected: 10/18/16 04:39
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-2
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 | | 4.44 | 109 mL | 250 mL | 133401 | 10/20/16 05:25 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.94 | 50 mL | 50 mL | 133992 | 10/22/16 17:37 | AMAO | TAL SAC |

Client Sample ID: SSV3
Date Collected: 10/18/16 04:49
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-3
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 | | 1.51 | 326 mL | 250 mL | 133401 | 10/20/16 08:18 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.96 | 50 mL | 50 mL | 133992 | 10/22/16 17:51 | AMAO | TAL SAC |

Client Sample ID: SSV4
Date Collected: 10/18/16 05:10
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-4
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 | | 12.7 | 39 mL | 250 mL | 133401 | 10/20/16 10:59 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.98 | 50 mL | 50 mL | 133992 | 10/22/16 18:00 | AMAO | TAL SAC |

Client Sample ID: SSV5
Date Collected: 10/18/16 05:44
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-5
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 | | 2.05 | 250 mL | 250 mL | 133595 | 10/20/16 17:49 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2.05 | 50 mL | 50 mL | 133992 | 10/22/16 18:10 | AMAO | TAL SAC |

Client Sample ID: SSV6
Date Collected: 10/18/16 06:12
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-6
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 | | 1.99 | 250 mL | 250 mL | 133595 | 10/20/16 18:43 | AP1 | TAL SAC |

TestAmerica Sacramento

Lab Chronicle

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV6

Date Collected: 10/18/16 06:12
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-6

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 | D1946 | | 1.99 | 50 mL | 50 mL | 133992 | 10/22/16 18:22 | AMAO | TAL SAC |

Client Sample ID: SSV7

Date Collected: 10/18/16 06:22
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-7

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 | | 47.3 | 9.9 mL | 250 mL | 133595 | 10/20/16 19:36 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.89 | 50 mL | 50 mL | 134156 | 10/24/16 13:31 | AMAO | TAL SAC |

Client Sample ID: SSV8

Date Collected: 10/18/16 07:04
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-8

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 | | 5.13 | 100 mL | 250 mL | 133354 | 10/20/16 07:31 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2.05 | 50 mL | 50 mL | 134156 | 10/24/16 13:43 | AMAO | TAL SAC |

Client Sample ID: SSV9

Date Collected: 10/18/16 07:11
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-9

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 | | 2.61 | 195 mL | 250 mL | 133354 | 10/20/16 03:07 | AP1 | TAL SAC |
| Total/NA | Analysis | TO-15 | DL | 5.09 | 100 mL | 250 mL | 133354 | 10/20/16 08:23 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2.04 | 50 mL | 50 mL | 134156 | 10/24/16 13:59 | AMAO | TAL SAC |

Client Sample ID: SSV10

Date Collected: 10/18/16 07:21
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-10

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 | | 2.14 | 250 mL | 250 mL | 133595 | 10/20/16 20:30 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2.14 | 50 mL | 50 mL | 134156 | 10/24/16 14:07 | AMAO | TAL SAC |

Client Sample ID: SSV11

Date Collected: 10/18/16 07:47
Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-11

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 | | 6.2 | 80 mL | 250 mL | 133354 | 10/20/16 10:07 | AP1 | TAL SAC |

TestAmerica Sacramento

Lab Chronicle

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

TestAmerica Job ID: 320-22817-1

Client Sample ID: SSV11

Date Collected: 10/18/16 07:47

Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-11

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 | D1946 | | 1.98 | 50 mL | 50 mL | 134156 | 10/24/16 14:15 | AMAO | TAL SAC |

Client Sample ID: PSV5-5

Date Collected: 10/19/16 05:39

Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-12

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 | | 20 | 25 mL | 250 mL | 133595 | 10/20/16 21:22 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2 | 50 mL | 50 mL | 134156 | 10/24/16 14:24 | AMAO | TAL SAC |

Client Sample ID: PSV5-10

Date Collected: 10/19/16 05:49

Date Received: 10/19/16 13:39

Lab Sample ID: 320-22817-13

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 | | 24.6 | 20 mL | 250 mL | 133595 | 10/20/16 22:14 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.97 | 50 mL | 50 mL | 134156 | 10/24/16 14:40 | AMAO | TAL SAC |

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 320-22817-1

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | 4040 | 01-29-17 |

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Method Summary

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

TestAmerica Job ID: 320-22817-1

| Method | Method Description | Protocol | Laboratory |
|--------|---|----------|------------|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | TAL SAC |
| D1946 | Fixed Gases in Air (GC) | ASTM | TAL SAC |

Protocol References:

ASTM = ASTM International

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: 320-22817-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 320-22817-1 | SSV1 | Air | 10/18/16 04:21 | 10/19/16 13:39 |
| 320-22817-2 | SSV2 | Air | 10/18/16 04:39 | 10/19/16 13:39 |
| 320-22817-3 | SSV3 | Air | 10/18/16 04:49 | 10/19/16 13:39 |
| 320-22817-4 | SSV4 | Air | 10/18/16 05:10 | 10/19/16 13:39 |
| 320-22817-5 | SSV5 | Air | 10/18/16 05:44 | 10/19/16 13:39 |
| 320-22817-6 | SSV6 | Air | 10/18/16 06:12 | 10/19/16 13:39 |
| 320-22817-7 | SSV7 | Air | 10/18/16 06:22 | 10/19/16 13:39 |
| 320-22817-8 | SSV8 | Air | 10/18/16 07:04 | 10/19/16 13:39 |
| 320-22817-9 | SSV9 | Air | 10/18/16 07:11 | 10/19/16 13:39 |
| 320-22817-10 | SSV10 | Air | 10/18/16 07:21 | 10/19/16 13:39 |
| 320-22817-11 | SSV11 | Air | 10/18/16 07:47 | 10/19/16 13:39 |
| 320-22817-12 | PSV5-5 | Air | 10/19/16 05:39 | 10/19/16 13:39 |
| 320-22817-13 | PSV5-10 | Air | 10/19/16 05:49 | 10/19/16 13:39 |

JOB # **320-22817**
 Sample # **1**

| | | |
|-----------------------------|-----------|---|
| Client/Project: | VFR ID: | |
| Canister Serial #: 34000992 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | Flow: | mL/min |
| Client ID: | Initials: | |
| Site Location: | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|------------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 13.52 | 10/19/16 | LHS for SV | |
| FINAL PRESSURE (PSIA) | 24.26 | 10/19/16 | LHS for SV | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.79 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.79 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|---|---------------------|---|------------|--------|-------------|
| | | | | | | |
| Canister DF = 1.79 | X | Load DF = 2.4752475 | X | Date | Instr. | File # |
| | | | | 10/19/2016 | ATMS9 | |
| | | | | FINAL DF | | |
| | | | | Bag DF = 1 | = | 4.441531431 |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |
| Canister DF = 1.79 | X | Load DF = 0.557296 | X | Date | Instr. | File # |
| | | | | | | |
| | | | | FINAL DF | | |
| | | | | Bag DF = 1 | = | 1 |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |
| Canister DF = 1.79 | X | Load DF = #DIV/0! | X | Date | Instr. | File # |
| | | | | | | |
| | | | | FINAL DF | | |
| | | | | Bag DF = 1 | = | #DIV/0! |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |



JOB # **320-22817**
 Sample # **2**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000628 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|------------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.64 | 10/19/16 | LHS for SV | |
| FINAL PRESSURE (PSIA) | 24.48 | 10/19/16 | LHS for SV | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.94 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.94 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|----------|---------------------------|----------|-------------------|--------|------------------|
| | | | | | | |
| Canister DF = 1.94 | X | Load DF = 2.293578 | X | Date | Instr. | File # |
| | | | | 10/19/2016 | ATMS9 | |
| | | | | FINAL DF | | |
| | | | | Bag DF = 1 | = | 4.4419928 |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |
| Canister DF = 1.94 | X | Load DF = #DIV/0! | X | Date | Instr. | File # |
| | | | | | | |
| | | | | FINAL DF | | |
| | | | | Bag DF = 1 | = | #DIV/0! |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |
| Canister DF = 1.94 | X | Load DF = #DIV/0! | X | Date | Instr. | File # |
| | | | | | | |
| | | | | FINAL DF | | |
| | | | | Bag DF = 1 | = | #DIV/0! |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |



JOB # 320-22817
 Sample # 3

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000744 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|------------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.40 | 10/19/16 | LHS for SV | |
| FINAL PRESSURE (PSIA) | 24.35 | 10/19/16 | LHS for SV | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.96 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.96 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|--|------------|--------|--------|---|--|---|
| | Date | Instr. | File # | | | |
| Canister DF = 1.96 X | 10/19/2016 | ATMS9 | | = | FINAL DF | 1.505912329 |
| | | | | | Bag DF = 1 | |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |
| Canister DF = 1.96 X | | | | = | FINAL DF | #DIV/0! |
| | | | | | Bag DF = 1 | |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |
| Canister DF = 1.96 X | | | | = | FINAL DF | #DIV/0! |
| | | | | | Bag DF = 1 | |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |



JOB # 320-22817
 Sample # 4

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34001243 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|------------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.64 | 10/19/16 | LHS for SV | |
| FINAL PRESSURE (PSIA) | 25.04 | 10/19/16 | LHS for SV | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.98 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.98 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | | |
|--|---|--------|--------|---|----------|---|--|
| | Date | Instr. | File # | | | | |
| Canister DF = 1.98 X | 10/20/2016 | ATMS9 | | = | FINAL DF | 12.69879909 | |
| | Load DF = 6.4102564 X | | | | | | Bag DF = 1 |
| | | | | | | | BVf (mLs) |
| | | | | | | | Bvi (mLs) |
| Canister DF = 1.98 X | | | | = | FINAL DF | #DIV/0! | |
| | Load DF = #DIV/0! X | | | | | | Bag DF = 1 |
| | | | | | | | BVf (mLs) |
| | | | | | | | Bvi (mLs) |
| Canister DF = 1.98 X | | | | = | FINAL DF | #DIV/0! | |
| | Load DF = #DIV/0! X | | | | | | Bag DF = 1 |
| | | | | | | | BVf (mLs) |
| | | | | | | | Bvi (mLs) |



JOB # **320-22817**
 Sample # **5**

| | | |
|-----------------------------|-----------|---|
| Client/Project: | VFR ID: | |
| Canister Serial #: 34000954 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | Flow: | mL/min |
| Client ID: | Initials: | |
| Site Location: | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|------------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 11.96 | 10/19/16 | LHS for SV | |
| FINAL PRESSURE (PSIA) | 24.54 | 10/19/16 | LHS for SV | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 2.05 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 2.05 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------|--------|--------|---|-------------------|------------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 2.05 | 10/20/2016 | MS7 | | X | Load DF = 1 | FINAL DF = 2.051839465 |
| | | | | | 250 | |
| | | | | | 250 | |
| | | | | | BVf (mLs) | |
| | | | | | BVi (mLs) | |
| Canister DF = 2.05 | | | | X | Load DF = #DIV/0! | FINAL DF = #DIV/0! |
| | | | | | LVf (mLs) | |
| | | | | | LVi (mLs) | |
| | | | | | BVf (mLs) | |
| | | | | | BVi (mLs) | |
| Canister DF = 2.05 | | | | X | Load DF = #DIV/0! | FINAL DF = #DIV/0! |
| | | | | | LVf (mLs) | |
| | | | | | LVi (mLs) | |
| | | | | | BVf (mLs) | |
| | | | | | BVi (mLs) | |



JOB # 320-22817
 Sample # 6

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000939 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|------------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.10 | 10/19/16 | LHS for SV | |
| FINAL PRESSURE (PSIA) | 24.13 | 10/19/16 | LHS for SV | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.99 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.99 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | | | | |
|--|------|--------|--------|---|---|---|--|---|--|
| | Date | Instr. | File # | | | | | | |
| Canister DF = 1.99 | | | | X | Load DF = 1 | X | Bag DF = 1 | = | FINAL DF 1.994214876 |
| | | | | | 250 | | BVf (mLs) | | |
| | | | | | 250 | | BVi (mLs) | | |
| Canister DF = 1.99 | | | | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | | | | LVf (mLs) | | BVf (mLs) | | |
| | | | | | LVi (mLs) | | BVi (mLs) | | |
| Canister DF = 1.99 | | | | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | | | | LVf (mLs) | | BVf (mLs) | | |
| | | | | | LVi (mLs) | | BVi (mLs) | | |



JOB # **320-22817**
Sample # **7**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34001219 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|------------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.74 | 10/19/16 | LHS for SV | |
| FINAL PRESSURE (PSIA) | 24.09 | 10/19/16 | LHS for SV | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.89 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| 10/20/16 | 14.70 | 44.10 | 1.89 | SV | 5.67 |
| | | | 5.67 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------|--------|--------|------------------------------|-------------------|-------------------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 5.67 X | 10/20/2016 | MS7 | | Load DF = 8.3333333 X | Bag DF = 1 | FINAL DF = 47.27237049 |
| | | | | 250 | BVf (mLs) | |
| | | | | 30 | Bvi (mLs) | |
| Canister DF = 1.89 X | | | | Load DF = #DIV/0! X | Bag DF = 1 | FINAL DF = #DIV/0! |
| | | | | LVf (mLs) | BVf (mLs) | |
| | | | | LVi (mLs) | Bvi (mLs) | |
| Canister DF = 1.89 X | | | | Load DF = #DIV/0! X | Bag DF = 1 | FINAL DF = #DIV/0! |
| | | | | LVf (mLs) | BVf (mLs) | |
| | | | | LVi (mLs) | Bvi (mLs) | |

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JOB # **320-22817**
 Sample # **10**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34001089 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 11.72 | 10/19/16 | LHS | |
| FINAL PRESSURE (PSIA) | 25.03 | 10/19/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 2.14 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 2.14 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------------------------|--------|--------|---|----------|--------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 2.14 X | 10/20/2016 | MS7 | | = | FINAL DF | 6.281369203 |
| | | | | | | |
| | Load DF = 2.9411765 X | | | | | |
| | 250 | | | | | |
| | | | | | | |
| | | | | | | |
| Canister DF = 2.14 X | 10/20/2016 | MS7 | | = | FINAL DF | 2.135665529 |
| | | | | | | |
| | Load DF = 1 X | | | | | |
| | LVf (mLs) 250 | | | | | |
| | | | | | | |
| | | | | | | |
| Canister DF = 2.14 X | | | | = | FINAL DF | #DIV/0! |
| | | | | | | |
| | Load DF = #DIV/0! X | | | | | |
| | LVf (mLs) | | | | | |
| | | | | | | |
| | | | | | | |



JOB # **320-22817**
 Sample # **12**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000602 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.62 | 10/19/16 | LHS | |
| FINAL PRESSURE (PSIA) | 25.26 | 10/19/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 2.00 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 2.00 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|----------|--------------------------|----------|-------------------|---|---------------------------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 2.00 | X | Load DF = 10 | X | Bag DF = 1 | = | FINAL DF 20.01584786 |
| | | 250 | | BVf (mLs) | | |
| | | 25 | | Bvi (mLs) | | |
| Canister DF = 2.00 | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | LVf (mLs) | | BVf (mLs) | | |
| | | LVi (mLs) | | Bvi (mLs) | | |
| Canister DF = 2.00 | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | LVf (mLs) | | BVf (mLs) | | |
| | | LVi (mLs) | | Bvi (mLs) | | |



JOB # **320-22817**
 Sample # **13**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000969 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|------|-----------------------------------|----------------------|----------|
| READING | | PRESS. | DATE | INITIALS |
| INITIAL VACUUM CHECK (INCHES Hg) | | 29.8 | | JMT |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | | 12.78 | 10/19/16 | LHS |
| FINAL PRESSURE (PSIA) | | 25.17 | 10/19/16 | LHS |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | |
| Initial Canister Dilution Factor = | 1.97 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.97 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | | | | | |
|-----------------------------|------|---|-----------|-----------|---|-----------|---|---|----------|------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Canister DF = | 1.97 | X | Load DF = | 12.5 | X | Bag DF = | 1 | = | FINAL DF | 24.6185446 |
| | | | | 250 | | BVf (mLs) | | | | |
| | | | | 20 | | BVi (mLs) | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Canister DF = | 1.97 | X | Load DF = | #DIV/0! | X | Bag DF = | 1 | = | FINAL DF | #DIV/0! |
| | | | | LVf (mLs) | | BVf (mLs) | | | | |
| | | | | LVi (mLs) | | BVi (mLs) | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Canister DF = | 1.97 | X | Load DF = | #DIV/0! | X | Bag DF = | 1 | = | FINAL DF | #DIV/0! |
| | | | | LVf (mLs) | | BVf (mLs) | | | | |
| | | | | LVi (mLs) | | BVi (mLs) | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 320-22817-1

Login Number: 22817
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

| 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 | |





Certification Type TO15, SGCN
 Date Cleaned/Batch ID 10/05/16, 320-22410
 Date of QC 10/06/16
 Data File Number M59100621

CANISTER ID NUMBERS

| | | |
|-------------------|-----------------|-------|
| <u>34000773 *</u> | <u>34000644</u> | _____ |
| <u>34000675</u> | <u>34000602</u> | _____ |
| <u>34001220</u> | <u>34002002</u> | _____ |
| <u>34001622</u> | <u>34000992</u> | _____ |
| <u>34000628</u> | <u>34000744</u> | _____ |
| <u>34000616</u> | <u>34001006</u> | _____ |
| <u>34000238</u> | <u>34001185</u> | _____ |
| <u>34001967</u> | <u>34001076</u> | _____ |

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.

[Signature]
1st level Reviewed By:

10/10/16
Date:

[Signature]
2nd level Reviewed By:

10/10/16
Date:





Certification Type TO15, SOG21
 Date Cleaned/Batch ID 10/07/16, 320-22537
 Date of QC 10/11/16
 Data File Number 16101108

CANISTER ID NUMBERS

| | | |
|-----------------|-------------------|-------|
| <u>34000969</u> | <u>5943</u> | _____ |
| <u>34000939</u> | <u>34001090</u> | _____ |
| <u>8442</u> | <u>34001053 *</u> | _____ |
| <u>34000954</u> | <u>34001243</u> | _____ |
| <u>34001670</u> | <u>34001219</u> | _____ |
| <u>4864</u> | <u>34001089</u> | _____ |
| <u>5876</u> | <u>34000901</u> | _____ |
| <u>4857</u> | <u>34001949</u> | _____ |

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.

DW for AP
1st level Reviewed By:

10/13/16
Date:

[Signature]
2nd level Reviewed By:

10/14/16
Date:



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

Lab Name: TestAmerica Sacramento Job No.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.21 | 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 | 0.11 |
| 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.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 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 | 0.050 |
| 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 | 0.053 | J | 0.40 | 0.051 |
| 109-99-9 | Tetrahydrofuran | ND | | 0.80 | 0.079 |
| 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.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 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) | 101 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D
 Lims ID: 320-22410-A-1
 Client ID: 34000773
 Sample Type: Client
 Inject. Date: 07-Oct-2016 08:39:30 ALS Bottle#: 4 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22410-A-1
 Misc. Info.: 500 mL
 Operator ID: KY Instrument ID: ATMS9
 Method: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\TO15_ATMS9N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 10-Oct-2016 09:33:02 Calib Date: 29-Sep-2016 01:36:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20160928-35069.b\MS9092812.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: vanommens

Date: 10-Oct-2016 09:33:02

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.418 | 12.430 | -0.012 | 99 | 52380 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.517 | 14.529 | -0.012 | 95 | 222382 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.442 | 20.442 | 0.000 | 89 | 199064 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.592 | 13.604 | -0.012 | 98 | 76461 | 3.66 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.692 | -0.006 | 99 | 137759 | 3.85 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.358 | 22.358 | 0.000 | 86 | 111537 | 4.02 | |
| 14 Propene | 41 | 4.229 | 4.199 | 0.030 | 27 | 587 | 0.0394 | |
| 31 Acetone | 43 | 7.727 | 7.648 | 0.079 | 91 | 6209 | 0.2133 | |
| 93 Tetrachloroethene | 166 | 19.128 | 19.128 | 0.000 | 93 | 1416 | 0.0533 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Operator ID: KY

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Worklist Smp#: 21

Client ID: 34000773

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

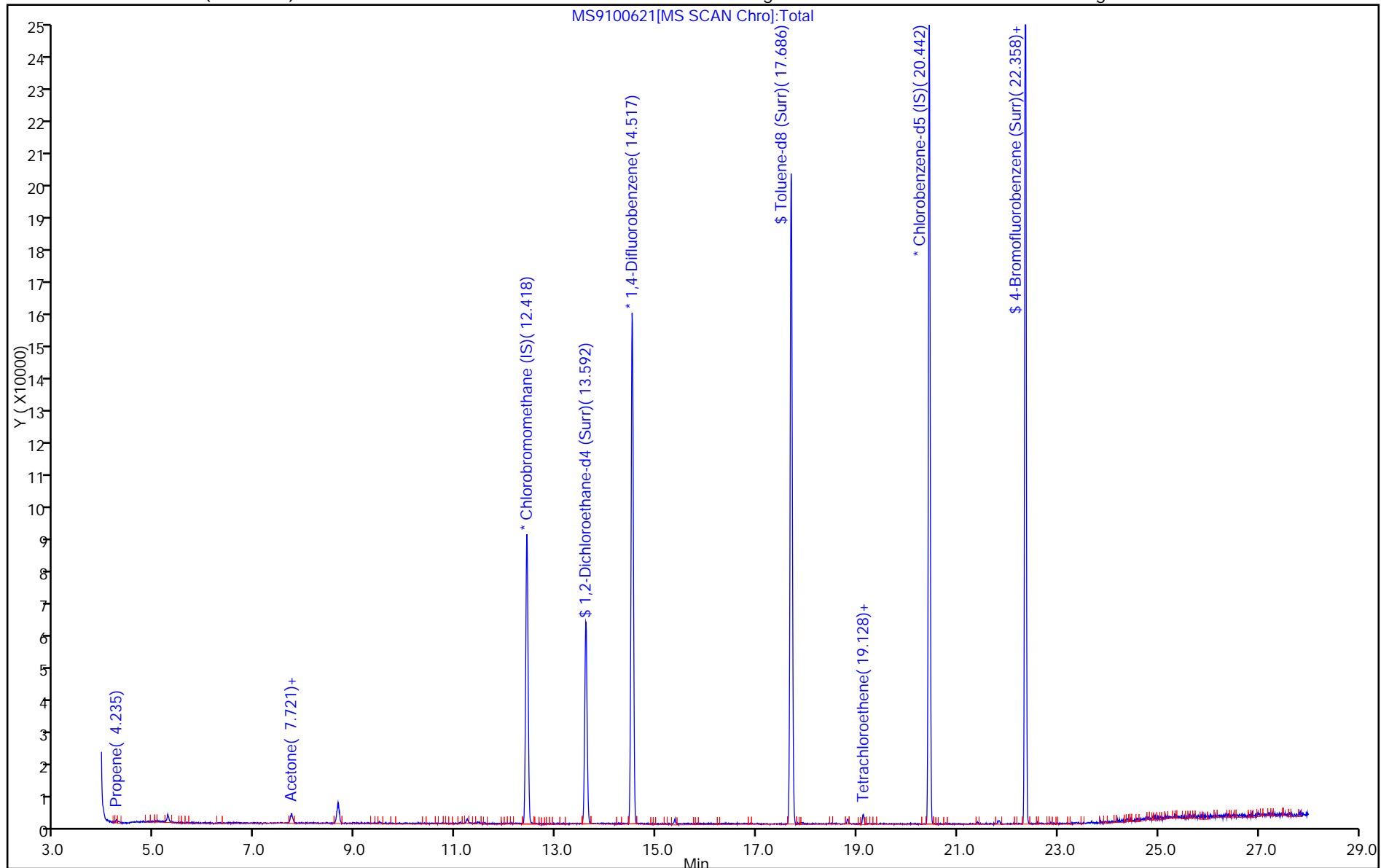
ALS Bottle#: 4

Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Client ID: 34000773

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

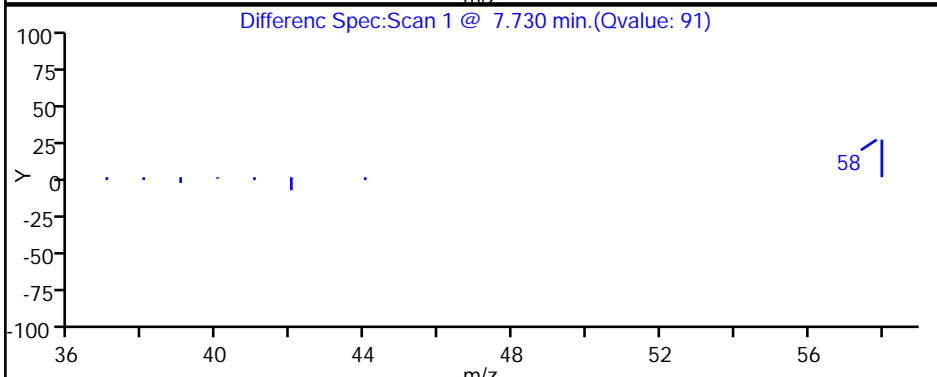
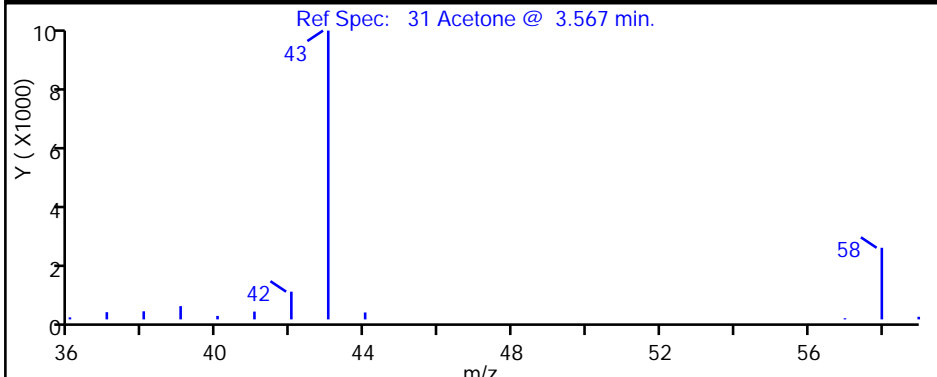
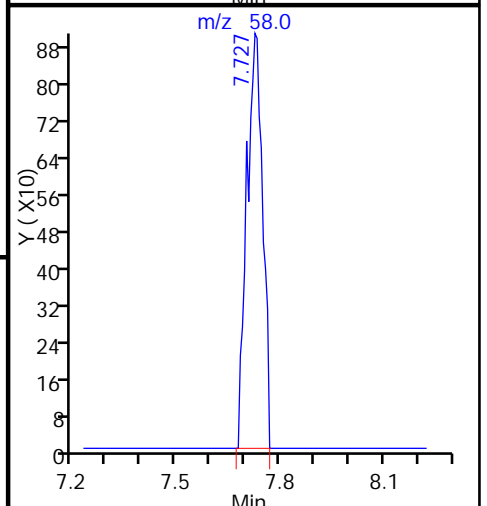
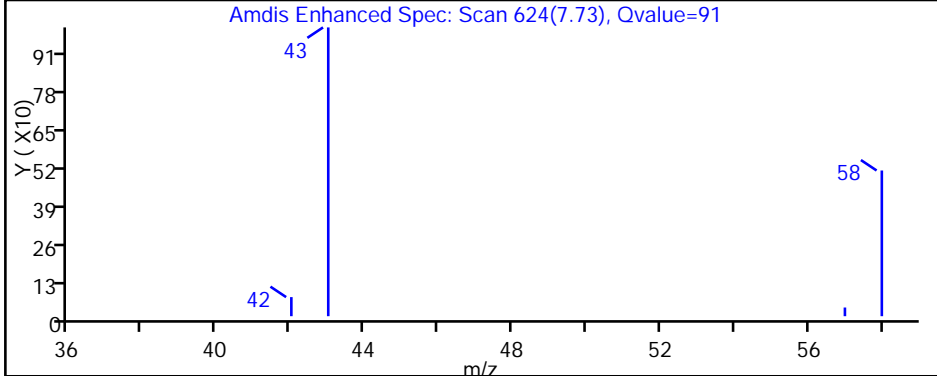
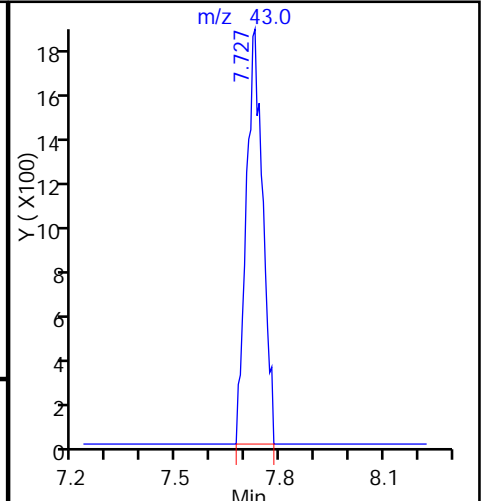
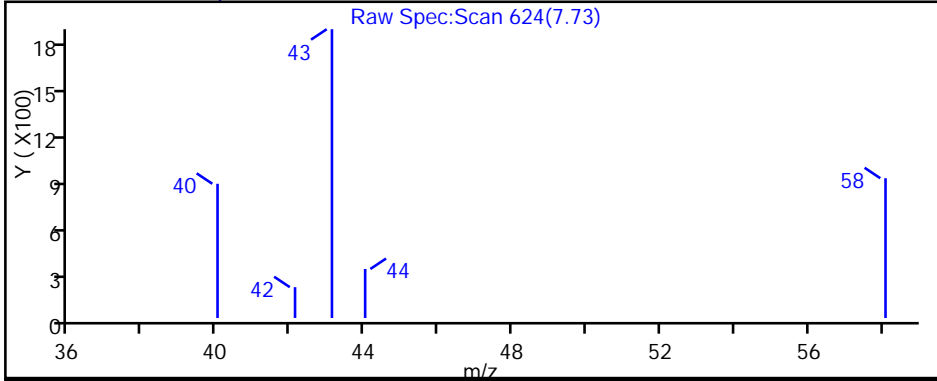
Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Client ID: 34000773

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

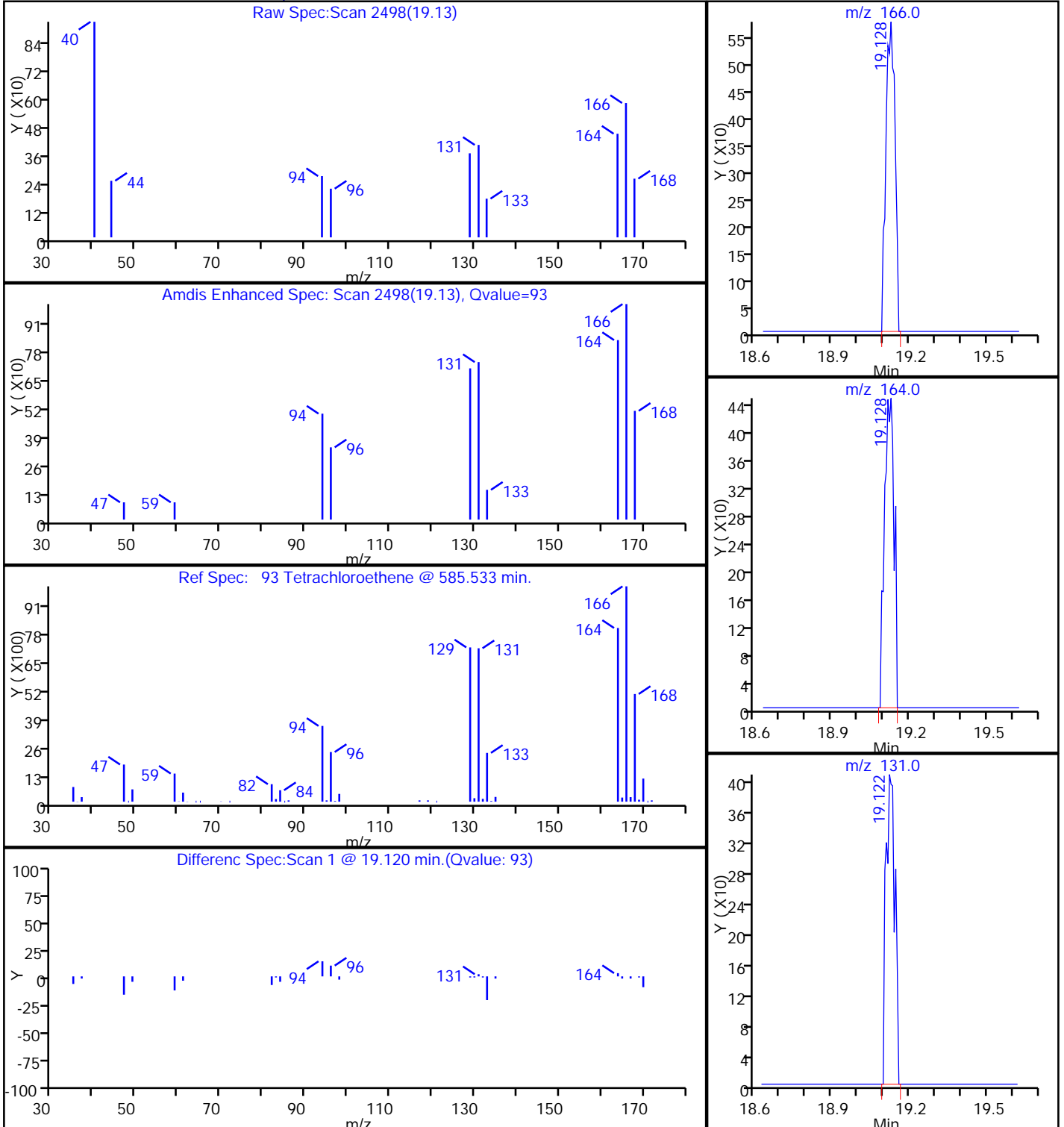
Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

93 Tetrachloroethene, CAS: 127-18-4



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

Lab Name: TestAmerica Sacramento Job No.: 320-22537-1
 SDG No.: _____
 Client Sample ID: 34001053 Lab Sample ID: 320-22537-11
 Matrix: Air Lab File ID: 16101108.D
 Analysis Method: TO-15 Date Collected: 10/07/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/11/2016 22:35
 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.: 132051 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | ND | | 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 | 0.11 |
| 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.: 320-22537-1
 SDG No.: _____
 Client Sample ID: 34001053 Lab Sample ID: 320-22537-11
 Matrix: Air Lab File ID: 16101108.D
 Analysis Method: TO-15 Date Collected: 10/07/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/11/2016 22:35
 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.: 132051 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22537-1
 SDG No.: _____
 Client Sample ID: 34001053 Lab Sample ID: 320-22537-11
 Matrix: Air Lab File ID: 16101108.D
 Analysis Method: TO-15 Date Collected: 10/07/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/11/2016 22:35
 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.: 132051 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) | 87 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 110 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161011-35543.b\16101108.D
 Lims ID: 320-22537-A-11
 Client ID: 34001053
 Sample Type: Client
 Inject. Date: 11-Oct-2016 22:35:30 ALS Bottle#: 4 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22537-A-11
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161011-35543.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 12-Oct-2016 13:41:49 Calib Date: 11-Oct-2016 18:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161011-35543.b\16101103.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: phanthasena Date: 12-Oct-2016 13:45:44

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.438 | 12.437 | 0.001 | 92 | 31072 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.530 | 14.529 | 0.001 | 96 | 117878 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.435 | 20.440 | -0.005 | 90 | 101979 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.612 | 13.605 | 0.007 | 96 | 45866 | 3.92 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.691 | -0.005 | 97 | 70033 | 4.40 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.357 | 22.350 | 0.007 | 90 | 48840 | 3.48 | |
| 14 Propene | 41 | 4.271 | 4.258 | 0.013 | 27 | 486 | 0.0395 | |
| 88 n-Octane | 43 | 17.698 | 17.697 | 0.001 | 43 | 793 | 0.0224 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161011-35543.b\16101108.D

Injection Date: 11-Oct-2016 22:35:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22537-A-11

Lab Sample ID: 320-22537-11

Worklist Smp#: 8

Client ID: 34001053

Purge Vol: 500.000 mL

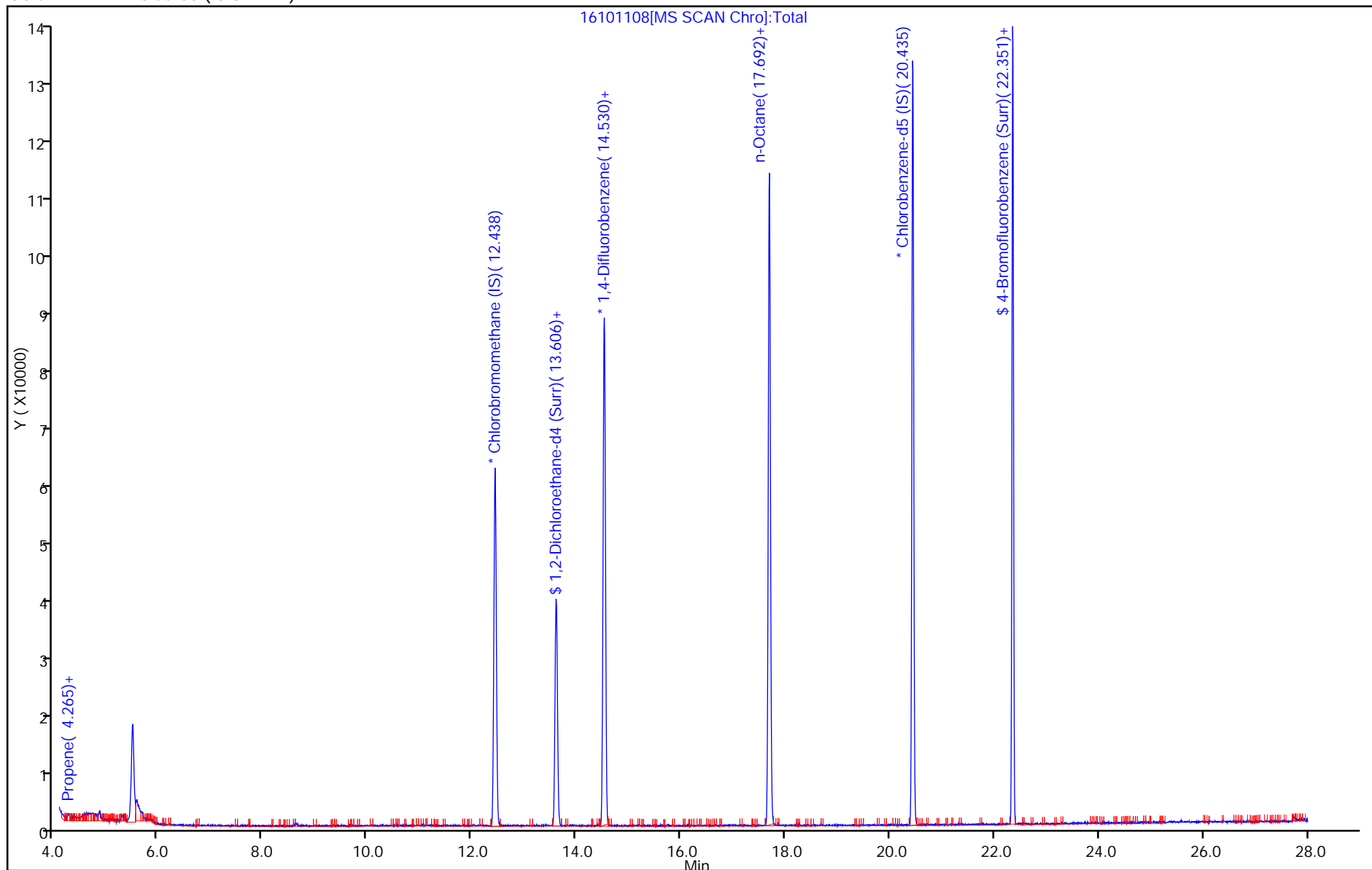
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



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: 320-22882-1

Client Project/Site: 6701 Shellmound St, Emeryville Air

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

Attn: Mr. Kyle Flory

Beth Riley

Authorized for release by:
10/26/2016 9:45:24 AM

Beth Riley, Project Manager II
(714)258-8610
beth.riley@testamericainc.com

LINKS

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www.testamericainc.com

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: 320-22882-1

Qualifiers

Air - GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|-------------------------------------|
| X | Surrogate is outside control limits |

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) |

Case Narrative

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

TestAmerica Job ID: 320-22882-1

Job ID: 320-22882-1

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative 320-22882-1

Receipt

The samples were received on 10/20/2016 6:23 PM; the samples arrived in good condition.

Air - GC VOA

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

Air - GC/MS VOA

Method(s) TO-15: 1,2-Dichloroethane-d4 (Surrogate recovery) for the following sample was outside control limits: PSV7-10 (320-22882-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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Detection Summary

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV6-5

Lab Sample ID: 320-22882-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 200 | | 21 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| Benzene | 56 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 84 | | 3.4 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| Carbon disulfide | 6.3 | | 3.4 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 26 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 2.8 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| Ethylbenzene | 5.7 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 21 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| Toluene | 40 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| Trichloroethene | 6.7 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 4.1 | | 3.4 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 2.0 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| Vinyl chloride | 59 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| m,p-Xylene | 23 | | 3.4 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| o-Xylene | 6.0 | | 1.7 | | ppb v/v | 4.23 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 6.8 | | 0.82 | | % v/v | 1.64 | | D1946 | Total/NA |
| Oxygen | 2.6 | | 0.33 | | % v/v | 1.64 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 470 | | 50 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| Benzene | 180 | | 5.4 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 250 | | 10 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| Carbon disulfide | 20 | | 11 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 100 | | 6.7 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 11 | | 6.7 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| Ethylbenzene | 25 | | 7.3 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 88 | | 6.9 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| Toluene | 150 | | 6.4 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| Trichloroethene | 36 | | 9.1 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 20 | | 17 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 9.6 | | 8.3 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| Vinyl chloride | 150 | | 4.3 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| m,p-Xylene | 98 | | 15 | | ug/m3 | 4.23 | | TO-15 | Total/NA |
| o-Xylene | 26 | | 7.3 | | ug/m3 | 4.23 | | TO-15 | Total/NA |

Client Sample ID: PSV6-10

Lab Sample ID: 320-22882-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|---------|---------|---|--------|-----------|
| Acetone | 68 | | 26 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| Benzene | 60 | | 2.1 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 31 | | 4.2 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| Carbon disulfide | 20 | | 4.2 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| Chloroethane | 14 | | 4.2 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| Ethylbenzene | 6.9 | | 2.1 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 2.6 | | 2.1 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| Toluene | 18 | | 2.1 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 6.0 | | 4.2 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 4.0 | | 2.1 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| Vinyl chloride | 180 | | 2.1 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| m,p-Xylene | 22 | | 4.2 | | ppb v/v | 5.24 | | TO-15 | Total/NA |
| o-Xylene | 8.7 | | 2.1 | | ppb v/v | 5.24 | | 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: 320-22882-1

Client Sample ID: PSV6-10 (Continued)

Lab Sample ID: 320-22882-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Helium | 1.1 | | 0.16 | | % v/v | 1.55 | | D1946 | Total/NA |
| Oxygen | 8.1 | | 0.31 | | % v/v | 1.55 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 160 | | 62 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| Benzene | 190 | | 6.7 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 92 | | 12 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| Carbon disulfide | 62 | | 13 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| Chloroethane | 36 | | 11 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| Ethylbenzene | 30 | | 9.1 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 13 | | 10 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| Toluene | 69 | | 7.9 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 29 | | 21 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 20 | | 10 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| Vinyl chloride | 460 | | 5.4 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| m,p-Xylene | 97 | | 18 | | ug/m3 | 5.24 | | TO-15 | Total/NA |
| o-Xylene | 38 | | 9.1 | | ug/m3 | 5.24 | | TO-15 | Total/NA |

Client Sample ID: PSV7-5

Lab Sample ID: 320-22882-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 88 | | 16 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| Benzene | 91 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 34 | | 2.6 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| Carbon disulfide | 3.0 | | 2.6 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 9.4 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 3.7 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| Ethylbenzene | 3.5 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 1.3 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| Toluene | 18 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| Trichloroethene | 4.6 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 2.7 | | 2.6 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| Vinyl chloride | 4.9 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| m,p-Xylene | 13 | | 2.6 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| o-Xylene | 4.2 | | 1.3 | | ppb v/v | 3.27 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 7.1 | | 0.75 | | % v/v | 1.5 | | D1946 | Total/NA |
| Helium | 0.33 | | 0.15 | | % v/v | 1.5 | | D1946 | Total/NA |
| Oxygen | 9.8 | | 0.30 | | % v/v | 1.5 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 210 | | 39 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| Benzene | 290 | | 4.2 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 100 | | 7.7 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| Carbon disulfide | 9.3 | | 8.1 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 37 | | 5.2 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 15 | | 5.2 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| Ethylbenzene | 15 | | 5.7 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 6.4 | | 6.4 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| Toluene | 67 | | 4.9 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| Trichloroethene | 24 | | 7.0 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 13 | | 13 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| Vinyl chloride | 12 | | 3.3 | | ug/m3 | 3.27 | | 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: 320-22882-1

Client Sample ID: PSV7-5 (Continued)

Lab Sample ID: 320-22882-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| m,p-Xylene | 58 | | 11 | | ug/m3 | 3.27 | | TO-15 | Total/NA |
| o-Xylene | 18 | | 5.7 | | ug/m3 | 3.27 | | TO-15 | Total/NA |

Client Sample ID: PSV7-10

Lab Sample ID: 320-22882-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 61 | | 8.9 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| Benzene | 15 | | 0.71 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 40 | | 1.4 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| Carbon disulfide | 4.2 | | 1.4 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 0.98 | | 0.71 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| Ethylbenzene | 4.8 | | 0.71 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 1.6 | | 0.71 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| Toluene | 25 | | 0.71 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 5.8 | | 1.4 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 2.3 | | 0.71 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| m,p-Xylene | 14 | | 1.4 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| o-Xylene | 6.1 | | 0.71 | | ppb v/v | 1.77 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 4.1 | | 0.76 | | % v/v | 1.52 | | D1946 | Total/NA |
| Oxygen | 6.6 | | 0.30 | | % v/v | 1.52 | | D1946 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| Acetone | 150 | | 21 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| Benzene | 47 | | 2.3 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 120 | | 4.2 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| Carbon disulfide | 13 | | 4.4 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 3.9 | | 2.8 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| Ethylbenzene | 21 | | 3.1 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 8.0 | | 3.5 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| Toluene | 95 | | 2.7 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 28 | | 7.0 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 11 | | 3.5 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| m,p-Xylene | 61 | | 6.1 | | ug/m3 | 1.77 | | TO-15 | Total/NA |
| o-Xylene | 26 | | 3.1 | | ug/m3 | 1.77 | | TO-15 | Total/NA |

Client Sample ID: PSV8-5

Lab Sample ID: 320-22882-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-----|-----|---------|---------|---|--------|-----------|
| Acetone | 160 | | 27 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| Benzene | 22 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 84 | | 4.4 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| Carbon disulfide | 11 | | 4.4 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 3.2 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| Ethylbenzene | 13 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 4.0 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 17 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| Toluene | 76 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 9.2 | | 4.4 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 4.6 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| Vinyl chloride | 12 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| m,p-Xylene | 48 | | 4.4 | | ppb v/v | 5.49 | | 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: 320-22882-1

Client Sample ID: PSV8-5 (Continued)

Lab Sample ID: 320-22882-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| o-Xylene | 14 | | 2.2 | | ppb v/v | 5.49 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 1.2 | | 0.84 | | % v/v | 1.67 | | D1946 | Total/NA |
| Oxygen | 8.4 | | 0.33 | | % v/v | 1.67 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 370 | | 65 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| Benzene | 71 | | 7.0 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 250 | | 13 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| Carbon disulfide | 33 | | 14 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 13 | | 8.7 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| Ethylbenzene | 58 | | 9.5 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 20 | | 11 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 68 | | 9.0 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| Toluene | 290 | | 8.3 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 45 | | 22 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 22 | | 11 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| Vinyl chloride | 30 | | 5.6 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| m,p-Xylene | 210 | | 19 | | ug/m3 | 5.49 | | TO-15 | Total/NA |
| o-Xylene | 61 | | 9.5 | | ug/m3 | 5.49 | | TO-15 | Total/NA |

Client Sample ID: PSV8-10

Lab Sample ID: 320-22882-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 82 | | 14 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| Benzene | 47 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 38 | | 2.2 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| Carbon disulfide | 16 | | 2.2 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 7.6 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 1.6 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| Ethylbenzene | 14 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 2.2 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| Styrene | 2.7 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| Toluene | 46 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| Trichloroethene | 2.1 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 5.5 | | 2.2 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 2.7 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| Vinyl chloride | 20 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| m,p-Xylene | 28 | | 2.2 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| o-Xylene | 8.8 | | 1.1 | | ppb v/v | 2.8 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 2.8 | | 1.0 | | % v/v | 2 | | D1946 | Total/NA |
| Oxygen | 5.5 | | 0.40 | | % v/v | 2 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 190 | | 33 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| Benzene | 150 | | 3.6 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 110 | | 6.6 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| Carbon disulfide | 49 | | 7.0 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 30 | | 4.4 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 6.3 | | 4.4 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| Ethylbenzene | 63 | | 4.9 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 11 | | 5.5 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| Styrene | 12 | | 4.8 | | ug/m3 | 2.8 | | 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: 320-22882-1

Client Sample ID: PSV8-10 (Continued)

Lab Sample ID: 320-22882-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| Toluene | 170 | | 4.2 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| Trichloroethene | 11 | | 6.0 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 27 | | 11 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 13 | | 5.5 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| Vinyl chloride | 51 | | 2.9 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| m,p-Xylene | 120 | | 9.7 | | ug/m3 | 2.8 | | TO-15 | Total/NA |
| o-Xylene | 38 | | 4.9 | | ug/m3 | 2.8 | | TO-15 | Total/NA |

Client Sample ID: PSV9-5

Lab Sample ID: 320-22882-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 160 | | 31 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| Benzene | 16 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 110 | | 5.0 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 9.3 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 15 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| Ethylbenzene | 8.4 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 17 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| Toluene | 42 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| Trichloroethene | 18 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 6.9 | | 5.0 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 2.9 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| Vinyl chloride | 46 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| m,p-Xylene | 33 | | 5.0 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| o-Xylene | 9.3 | | 2.5 | | ppb v/v | 6.21 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 11 | | 0.95 | | % v/v | 1.89 | | D1946 | Total/NA |
| Oxygen | 1.9 | | 0.38 | | % v/v | 1.89 | | D1946 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| Acetone | 370 | | 74 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| Benzene | 51 | | 7.9 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 320 | | 15 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 37 | | 9.8 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 58 | | 9.8 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| Ethylbenzene | 36 | | 11 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 68 | | 10 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| Toluene | 160 | | 9.4 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| Trichloroethene | 95 | | 13 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 34 | | 24 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 14 | | 12 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| Vinyl chloride | 120 | | 6.3 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| m,p-Xylene | 140 | | 22 | | ug/m3 | 6.21 | | TO-15 | Total/NA |
| o-Xylene | 40 | | 11 | | ug/m3 | 6.21 | | TO-15 | Total/NA |

Client Sample ID: PSV9-9

Lab Sample ID: 320-22882-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|-----|-----|---------|---------|---|--------|-----------|
| Acetone | 72 | | 15 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| Benzene | 17 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 45 | | 2.4 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| Carbon disulfide | 60 | | 2.4 | | ppb v/v | 2.99 | | 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: 320-22882-1

Client Sample ID: PSV9-9 (Continued)

Lab Sample ID: 320-22882-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Chlorobenzene | 2.0 | | 0.90 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| 1,1-Dichloroethene | 4.3 | | 2.4 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 25 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 27 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| Ethylbenzene | 5.2 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 12 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| Tetrachloroethene | 7.1 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| Toluene | 41 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| Trichloroethene | 21 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| Vinyl chloride | 84 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| m,p-Xylene | 16 | | 2.4 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| o-Xylene | 4.6 | | 1.2 | | ppb v/v | 2.99 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 4.2 | | 0.98 | | % v/v | 1.95 | | D1946 | Total/NA |
| Oxygen | 1.7 | | 0.39 | | % v/v | 1.95 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 170 | | 36 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| Benzene | 53 | | 3.8 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 130 | | 7.1 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| Carbon disulfide | 190 | | 7.4 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| Chlorobenzene | 9.3 | | 4.1 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| 1,1-Dichloroethene | 17 | | 9.5 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 98 | | 4.7 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 110 | | 4.7 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| Ethylbenzene | 23 | | 5.2 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 48 | | 4.9 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| Tetrachloroethene | 48 | | 8.1 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| Toluene | 150 | | 4.5 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| Trichloroethene | 110 | | 6.4 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| Vinyl chloride | 210 | | 3.1 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| m,p-Xylene | 69 | | 10 | | ug/m3 | 2.99 | | TO-15 | Total/NA |
| o-Xylene | 20 | | 5.2 | | ug/m3 | 2.99 | | TO-15 | Total/NA |

Client Sample ID: PSV10-5

Lab Sample ID: 320-22882-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 160 | | 32 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| Benzene | 29 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 93 | | 5.0 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 23 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 17 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| Ethylbenzene | 9.7 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 22 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| Toluene | 56 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| Trichloroethene | 15 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 8.2 | | 5.0 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 3.9 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| Vinyl chloride | 78 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| m,p-Xylene | 35 | | 5.0 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| o-Xylene | 11 | | 2.5 | | ppb v/v | 6.31 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 8.4 | | 0.82 | | % v/v | 1.64 | | D1946 | 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: 320-22882-1

Client Sample ID: PSV10-5 (Continued)

Lab Sample ID: 320-22882-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Oxygen | 1.5 | | 0.33 | | % v/v | 1.64 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 380 | | 75 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| Benzene | 92 | | 8.1 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 270 | | 15 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 90 | | 10 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 69 | | 10 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| Ethylbenzene | 42 | | 11 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 91 | | 10 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| Toluene | 210 | | 9.5 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| Trichloroethene | 79 | | 14 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 40 | | 25 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 19 | | 12 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| Vinyl chloride | 200 | | 6.5 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| m,p-Xylene | 150 | | 22 | | ug/m3 | 6.31 | | TO-15 | Total/NA |
| o-Xylene | 47 | | 11 | | ug/m3 | 6.31 | | TO-15 | Total/NA |

Client Sample ID: PSV10-10

Lab Sample ID: 320-22882-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Benzene | 540 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 38 | | 15 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| Carbon disulfide | 33 | | 15 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 240 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 98 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| Ethylbenzene | 140 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 37 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| Toluene | 72 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| Trichloroethene | 23 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 91 | | 15 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 58 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| Vinyl chloride | 600 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| m,p-Xylene | 130 | | 15 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| o-Xylene | 89 | | 7.7 | | ppb v/v | 19.34 | | TO-15 | Total/NA |
| Oxygen | 1.3 | | 0.39 | | % v/v | 1.93 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Benzene | 1700 | | 25 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 110 | | 46 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| Carbon disulfide | 100 | | 48 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 950 | | 31 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 390 | | 31 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| Ethylbenzene | 610 | | 34 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 180 | | 38 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| Toluene | 270 | | 29 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| Trichloroethene | 120 | | 42 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 450 | | 76 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 280 | | 38 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| Vinyl chloride | 1500 | | 20 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| m,p-Xylene | 580 | | 67 | | ug/m3 | 19.34 | | TO-15 | Total/NA |
| o-Xylene | 390 | | 34 | | ug/m3 | 19.34 | | 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: 320-22882-1

Client Sample ID: PSV6-5

Lab Sample ID: 320-22882-1

Date Collected: 10/20/16 05:06

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 200 | | 21 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Benzene | 56 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Benzyl chloride | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Bromodichloromethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Bromoform | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Bromomethane | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 2-Butanone (MEK) | 84 | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Carbon disulfide | 6.3 | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Carbon tetrachloride | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Chlorobenzene | ND | | 1.3 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Dibromochloromethane | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Chloroethane | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Chloroform | ND | | 1.3 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Chloromethane | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dibromoethane (EDB) | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichlorobenzene | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,3-Dichlorobenzene | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,4-Dichlorobenzene | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Dichlorodifluoromethane | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,1-Dichloroethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichloroethane | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,1-Dichloroethene | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| cis-1,2-Dichloroethene | 26 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| trans-1,2-Dichloroethene | 2.8 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichloropropane | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| cis-1,3-Dichloropropene | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| trans-1,3-Dichloropropene | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Ethylbenzene | 5.7 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 4-Ethyltoluene | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Hexachlorobutadiene | ND | | 8.5 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 2-Hexanone | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Methylene Chloride | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 4-Methyl-2-pentanone (MIBK) | 21 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Styrene | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Tetrachloroethene | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Toluene | 40 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,2,4-Trichlorobenzene | ND | | 8.5 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,1,1-Trichloroethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,1,2-Trichloroethane | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Trichloroethene | 6.7 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,4-Dioxane | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Trichlorofluoromethane | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,2,4-Trimethylbenzene | 4.1 | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| 1,3,5-Trimethylbenzene | 2.0 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Vinyl acetate | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV6-5

Lab Sample ID: 320-22882-1

Date Collected: 10/20/16 05:06

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | 59 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| m,p-Xylene | 23 | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| o-Xylene | 6.0 | | 1.7 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Naphthalene | ND | | 3.4 | | ppb v/v | | | 10/21/16 17:10 | 4.23 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 470 | | 50 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Benzene | 180 | | 5.4 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Benzyl chloride | ND | | 18 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Bromodichloromethane | ND | | 8.5 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Bromoform | ND | | 17 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Bromomethane | ND | | 13 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 2-Butanone (MEK) | 250 | | 10 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Carbon disulfide | 20 | | 11 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Carbon tetrachloride | ND | | 21 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Chlorobenzene | ND | | 5.8 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Dibromochloromethane | ND | | 14 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Chloroethane | ND | | 8.9 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Chloroform | ND | | 6.2 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Chloromethane | ND | | 7.0 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dibromoethane (EDB) | ND | | 26 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichlorobenzene | ND | | 10 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,3-Dichlorobenzene | ND | | 10 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,4-Dichlorobenzene | ND | | 10 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Dichlorodifluoromethane | ND | | 8.4 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,1-Dichloroethane | ND | | 5.1 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichloroethane | ND | | 14 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,1-Dichloroethene | ND | | 13 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| cis-1,2-Dichloroethene | 100 | | 6.7 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| trans-1,2-Dichloroethene | 11 | | 6.7 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichloropropane | ND | | 7.8 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| cis-1,3-Dichloropropene | ND | | 7.7 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| trans-1,3-Dichloropropene | ND | | 7.7 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 12 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Ethylbenzene | 25 | | 7.3 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 4-Ethyltoluene | ND | | 8.3 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Hexachlorobutadiene | ND | | 90 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 2-Hexanone | ND | | 6.9 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Methylene Chloride | ND | | 5.9 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 4-Methyl-2-pentanone (MIBK) | 88 | | 6.9 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Styrene | ND | | 7.2 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,1,2,2-Tetrachloroethane | ND | | 12 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Tetrachloroethene | ND | | 11 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Toluene | 150 | | 6.4 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,2,4-Trichlorobenzene | ND | | 63 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,1,1-Trichloroethane | ND | | 6.9 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,1,2-Trichloroethane | ND | | 9.2 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Trichloroethene | 36 | | 9.1 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,4-Dioxane | ND | | 12 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV6-5

Lab Sample ID: 320-22882-1

Date Collected: 10/20/16 05:06

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 9.5 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 13 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,2,4-Trimethylbenzene | 20 | | 17 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| 1,3,5-Trimethylbenzene | 9.6 | | 8.3 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Vinyl acetate | ND | | 12 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Vinyl chloride | 150 | | 4.3 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| m,p-Xylene | 98 | | 15 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| o-Xylene | 26 | | 7.3 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Naphthalene | ND | | 18 | | ug/m3 | | | 10/21/16 17:10 | 4.23 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | | | 10/21/16 17:10 | 4.23 |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 70 - 130 | | | | | 10/21/16 17:10 | 4.23 |
| Toluene-d8 (Surr) | 104 | | 70 - 130 | | | | | 10/21/16 17:10 | 4.23 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 6.8 | | 0.82 | | % v/v | | | 10/25/16 14:29 | 1.64 |
| Helium | ND | | 0.16 | | % v/v | | | 10/25/16 14:29 | 1.64 |
| Oxygen | 2.6 | | 0.33 | | % v/v | | | 10/25/16 14:29 | 1.64 |

Client Sample ID: PSV6-10

Lab Sample ID: 320-22882-2

Date Collected: 10/20/16 05:06

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 68 | | 26 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Benzene | 60 | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Benzyl chloride | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Bromodichloromethane | ND | | 1.6 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Bromoform | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Bromomethane | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 2-Butanone (MEK) | 31 | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Carbon disulfide | 20 | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Carbon tetrachloride | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Chlorobenzene | ND | | 1.6 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Dibromochloromethane | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Chloroethane | 14 | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Chloroform | ND | | 1.6 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Chloromethane | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dibromoethane (EDB) | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichlorobenzene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,3-Dichlorobenzene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,4-Dichlorobenzene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Dichlorodifluoromethane | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,1-Dichloroethane | ND | | 1.6 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichloroethane | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV6-10

Lab Sample ID: 320-22882-2

Date Collected: 10/20/16 05:06

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| cis-1,2-Dichloroethene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| trans-1,2-Dichloroethene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichloropropane | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| cis-1,3-Dichloropropene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| trans-1,3-Dichloropropene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Ethylbenzene | 6.9 | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 4-Ethyltoluene | 2.6 | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Hexachlorobutadiene | ND | | 10 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 2-Hexanone | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Methylene Chloride | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Styrene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Tetrachloroethene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Toluene | 18 | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,2,4-Trichlorobenzene | ND | | 10 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,1,2-Trichloroethane | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Trichloroethene | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,4-Dioxane | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Trichlorofluoromethane | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,2,4-Trimethylbenzene | 6.0 | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| 1,3,5-Trimethylbenzene | 4.0 | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Vinyl acetate | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Vinyl chloride | 180 | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| m,p-Xylene | 22 | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| o-Xylene | 8.7 | | 2.1 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Naphthalene | ND | | 4.2 | | ppb v/v | | | 10/21/16 18:00 | 5.24 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 160 | | 62 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Benzene | 190 | | 6.7 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Benzyl chloride | ND | | 22 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Bromodichloromethane | ND | | 11 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Bromoform | ND | | 22 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Bromomethane | ND | | 16 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 2-Butanone (MEK) | 92 | | 12 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Carbon disulfide | 62 | | 13 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Carbon tetrachloride | ND | | 26 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Chlorobenzene | ND | | 7.2 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Dibromochloromethane | ND | | 18 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Chloroethane | 36 | | 11 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Chloroform | ND | | 7.7 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Chloromethane | ND | | 8.7 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dibromoethane (EDB) | ND | | 32 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichlorobenzene | ND | | 13 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV6-10

Lab Sample ID: 320-22882-2

Date Collected: 10/20/16 05:06

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 13 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,4-Dichlorobenzene | ND | | 13 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Dichlorodifluoromethane | ND | | 10 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,1-Dichloroethane | ND | | 6.4 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichloroethane | ND | | 17 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,1-Dichloroethene | ND | | 17 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| cis-1,2-Dichloroethene | ND | | 8.3 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| trans-1,2-Dichloroethene | ND | | 8.3 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichloropropane | ND | | 9.7 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| cis-1,3-Dichloropropene | ND | | 9.5 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| trans-1,3-Dichloropropene | ND | | 9.5 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 15 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Ethylbenzene | 30 | | 9.1 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 4-Ethyltoluene | 13 | | 10 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Hexachlorobutadiene | ND | | 110 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 2-Hexanone | ND | | 8.6 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Methylene Chloride | ND | | 7.3 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 8.6 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Styrene | ND | | 8.9 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,1,2,2-Tetrachloroethane | ND | | 14 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Tetrachloroethene | ND | | 14 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Toluene | 69 | | 7.9 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,2,4-Trichlorobenzene | ND | | 78 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,1,1-Trichloroethane | ND | | 8.6 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,1,2-Trichloroethane | ND | | 11 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Trichloroethene | ND | | 11 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,4-Dioxane | ND | | 15 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Trichlorofluoromethane | ND | | 12 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 16 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,2,4-Trimethylbenzene | 29 | | 21 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| 1,3,5-Trimethylbenzene | 20 | | 10 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Vinyl acetate | ND | | 15 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Vinyl chloride | 460 | | 5.4 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| m,p-Xylene | 97 | | 18 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| o-Xylene | 38 | | 9.1 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |
| Naphthalene | ND | | 22 | | ug/m3 | | | 10/21/16 18:00 | 5.24 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | 10/21/16 18:00 | 5.24 |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 70 - 130 | | 10/21/16 18:00 | 5.24 |
| Toluene-d8 (Surr) | 98 | | 70 - 130 | | 10/21/16 18:00 | 5.24 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.78 | | % v/v | | | 10/25/16 14:54 | 1.55 |
| Helium | 1.1 | | 0.16 | | % v/v | | | 10/25/16 14:54 | 1.55 |
| Oxygen | 8.1 | | 0.31 | | % v/v | | | 10/25/16 14:54 | 1.55 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV7-5

Lab Sample ID: 320-22882-3

Date Collected: 10/20/16 05:45

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Acetone | 88 | | 16 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Benzene | 91 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Benzyl chloride | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Bromodichloromethane | ND | | 0.98 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Bromoform | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Bromomethane | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 2-Butanone (MEK) | 34 | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Carbon disulfide | 3.0 | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Carbon tetrachloride | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Chlorobenzene | ND | | 0.98 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Dibromochloromethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Chloroethane | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Chloroform | ND | | 0.98 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Chloromethane | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dibromoethane (EDB) | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichlorobenzene | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,3-Dichlorobenzene | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,4-Dichlorobenzene | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Dichlorodifluoromethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,1-Dichloroethane | ND | | 0.98 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichloroethane | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,1-Dichloroethene | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| cis-1,2-Dichloroethene | 9.4 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| trans-1,2-Dichloroethene | 3.7 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichloropropane | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| cis-1,3-Dichloropropene | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| trans-1,3-Dichloropropene | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Ethylbenzene | 3.5 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 4-Ethyltoluene | 1.3 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Hexachlorobutadiene | ND | | 6.5 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 2-Hexanone | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Methylene Chloride | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Styrene | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Tetrachloroethene | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Toluene | 18 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,2,4-Trichlorobenzene | ND | | 6.5 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,1,1-Trichloroethane | ND | | 0.98 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,1,2-Trichloroethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Trichloroethene | 4.6 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,4-Dioxane | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Trichlorofluoromethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,2,4-Trimethylbenzene | 2.7 | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| 1,3,5-Trimethylbenzene | ND | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Vinyl acetate | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV7-5

Lab Sample ID: 320-22882-3

Date Collected: 10/20/16 05:45

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | 4.9 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| m,p-Xylene | 13 | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| o-Xylene | 4.2 | | 1.3 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Naphthalene | ND | | 2.6 | | ppb v/v | | | 10/21/16 18:50 | 3.27 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 210 | | 39 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Benzene | 290 | | 4.2 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Benzyl chloride | ND | | 14 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Bromodichloromethane | ND | | 6.6 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Bromoform | ND | | 14 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Bromomethane | ND | | 10 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 2-Butanone (MEK) | 100 | | 7.7 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Carbon disulfide | 9.3 | | 8.1 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Carbon tetrachloride | ND | | 16 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Chlorobenzene | ND | | 4.5 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Dibromochloromethane | ND | | 11 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Chloroethane | ND | | 6.9 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Chloroform | ND | | 4.8 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Chloromethane | ND | | 5.4 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dibromoethane (EDB) | ND | | 20 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichlorobenzene | ND | | 7.9 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,3-Dichlorobenzene | ND | | 7.9 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,4-Dichlorobenzene | ND | | 7.9 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Dichlorodifluoromethane | ND | | 6.5 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,1-Dichloroethane | ND | | 4.0 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichloroethane | ND | | 11 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,1-Dichloroethene | ND | | 10 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| cis-1,2-Dichloroethene | 37 | | 5.2 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| trans-1,2-Dichloroethene | 15 | | 5.2 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichloropropane | ND | | 6.0 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| cis-1,3-Dichloropropene | ND | | 5.9 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| trans-1,3-Dichloropropene | ND | | 5.9 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 9.1 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Ethylbenzene | 15 | | 5.7 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 4-Ethyltoluene | 6.4 | | 6.4 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Hexachlorobutadiene | ND | | 70 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 2-Hexanone | ND | | 5.4 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Methylene Chloride | ND | | 4.5 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.4 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Styrene | ND | | 5.6 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,1,2,2-Tetrachloroethane | ND | | 9.0 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Tetrachloroethene | ND | | 8.9 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Toluene | 67 | | 4.9 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,2,4-Trichlorobenzene | ND | | 49 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,1,1-Trichloroethane | ND | | 5.4 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,1,2-Trichloroethane | ND | | 7.1 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Trichloroethene | 24 | | 7.0 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,4-Dioxane | ND | | 9.4 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV7-5

Lab Sample ID: 320-22882-3

Date Collected: 10/20/16 05:45

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 7.3 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 10 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,2,4-Trimethylbenzene | 13 | | 13 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| 1,3,5-Trimethylbenzene | ND | | 6.4 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Vinyl acetate | ND | | 9.2 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Vinyl chloride | 12 | | 3.3 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| m,p-Xylene | 58 | | 11 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| o-Xylene | 18 | | 5.7 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Naphthalene | ND | | 14 | | ug/m3 | | | 10/21/16 18:50 | 3.27 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | | 10/21/16 18:50 | 3.27 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 70 - 130 | | | | | 10/21/16 18:50 | 3.27 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 10/21/16 18:50 | 3.27 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 7.1 | | 0.75 | | % v/v | | | 10/25/16 15:01 | 1.5 |
| Helium | 0.33 | | 0.15 | | % v/v | | | 10/25/16 15:01 | 1.5 |
| Oxygen | 9.8 | | 0.30 | | % v/v | | | 10/25/16 15:01 | 1.5 |

Client Sample ID: PSV7-10

Lab Sample ID: 320-22882-4

Date Collected: 10/20/16 05:45

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Acetone | 61 | | 8.9 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Benzene | 15 | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Benzyl chloride | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Bromodichloromethane | ND | | 0.53 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Bromoform | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Bromomethane | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 2-Butanone (MEK) | 40 | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Carbon disulfide | 4.2 | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Carbon tetrachloride | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Chlorobenzene | ND | | 0.53 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Dibromochloromethane | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Chloroethane | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Chloroform | ND | | 0.53 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Chloromethane | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dibromoethane (EDB) | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichlorobenzene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,3-Dichlorobenzene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,4-Dichlorobenzene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Dichlorodifluoromethane | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,1-Dichloroethane | ND | | 0.53 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichloroethane | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV7-10

Lab Sample ID: 320-22882-4

Date Collected: 10/20/16 05:45

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| cis-1,2-Dichloroethene | 0.98 | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| trans-1,2-Dichloroethene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichloropropane | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| cis-1,3-Dichloropropene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| trans-1,3-Dichloropropene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Ethylbenzene | 4.8 | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 4-Ethyltoluene | 1.6 | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Hexachlorobutadiene | ND | | 3.5 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 2-Hexanone | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Methylene Chloride | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Styrene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Tetrachloroethene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Toluene | 25 | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,2,4-Trichlorobenzene | ND | | 3.5 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,1,1-Trichloroethane | ND | | 0.53 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,1,2-Trichloroethane | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Trichloroethene | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,4-Dioxane | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Trichlorofluoromethane | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,2,4-Trimethylbenzene | 5.8 | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| 1,3,5-Trimethylbenzene | 2.3 | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Vinyl acetate | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Vinyl chloride | ND | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| m,p-Xylene | 14 | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| o-Xylene | 6.1 | | 0.71 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Naphthalene | ND | | 1.4 | | ppb v/v | | | 10/21/16 19:42 | 1.77 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 150 | | 21 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Benzene | 47 | | 2.3 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Benzyl chloride | ND | | 7.3 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Bromodichloromethane | ND | | 3.6 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Bromoform | ND | | 7.3 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Bromomethane | ND | | 5.5 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 2-Butanone (MEK) | 120 | | 4.2 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Carbon disulfide | 13 | | 4.4 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Carbon tetrachloride | ND | | 8.9 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Chlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Dibromochloromethane | ND | | 6.0 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Chloroethane | ND | | 3.7 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Chloroform | ND | | 2.6 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Chloromethane | ND | | 2.9 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dibromoethane (EDB) | ND | | 11 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichlorobenzene | ND | | 4.3 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV7-10

Lab Sample ID: 320-22882-4

Date Collected: 10/20/16 05:45

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 4.3 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,4-Dichlorobenzene | ND | | 4.3 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Dichlorodifluoromethane | ND | | 3.5 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,1-Dichloroethane | ND | | 2.1 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichloroethane | ND | | 5.7 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,1-Dichloroethene | ND | | 5.6 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| cis-1,2-Dichloroethene | 3.9 | | 2.8 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| trans-1,2-Dichloroethene | ND | | 2.8 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichloropropane | ND | | 3.3 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| cis-1,3-Dichloropropene | ND | | 3.2 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| trans-1,3-Dichloropropene | ND | | 3.2 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 4.9 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Ethylbenzene | 21 | | 3.1 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 4-Ethyltoluene | 8.0 | | 3.5 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Hexachlorobutadiene | ND | | 38 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 2-Hexanone | ND | | 2.9 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Methylene Chloride | ND | | 2.5 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 2.9 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Styrene | ND | | 3.0 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.9 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Tetrachloroethene | ND | | 4.8 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Toluene | 95 | | 2.7 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,2,4-Trichlorobenzene | ND | | 26 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,1,1-Trichloroethane | ND | | 2.9 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,1,2-Trichloroethane | ND | | 3.9 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Trichloroethene | ND | | 3.8 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,4-Dioxane | ND | | 5.1 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Trichlorofluoromethane | ND | | 4.0 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.4 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,2,4-Trimethylbenzene | 28 | | 7.0 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| 1,3,5-Trimethylbenzene | 11 | | 3.5 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Vinyl acetate | ND | | 5.0 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Vinyl chloride | ND | | 1.8 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| m,p-Xylene | 61 | | 6.1 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| o-Xylene | 26 | | 3.1 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |
| Naphthalene | ND | | 7.4 | | ug/m3 | | | 10/21/16 19:42 | 1.77 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | 10/21/16 19:42 | 1.77 |
| 1,2-Dichloroethane-d4 (Surr) | 135 | X | 70 - 130 | | 10/21/16 19:42 | 1.77 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | 10/21/16 19:42 | 1.77 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 4.1 | | 0.76 | | % v/v | | | 10/25/16 15:08 | 1.52 |
| Helium | ND | | 0.15 | | % v/v | | | 10/25/16 15:08 | 1.52 |
| Oxygen | 6.6 | | 0.30 | | % v/v | | | 10/25/16 15:08 | 1.52 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV8-5

Lab Sample ID: 320-22882-5

Date Collected: 10/20/16 06:18

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 160 | | 27 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Benzene | 22 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Benzyl chloride | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Bromodichloromethane | ND | | 1.6 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Bromoform | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Bromomethane | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 2-Butanone (MEK) | 84 | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Carbon disulfide | 11 | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Carbon tetrachloride | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Chlorobenzene | ND | | 1.6 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Dibromochloromethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Chloroethane | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Chloroform | ND | | 1.6 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Chloromethane | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dibromoethane (EDB) | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichlorobenzene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,3-Dichlorobenzene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,4-Dichlorobenzene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Dichlorodifluoromethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,1-Dichloroethane | ND | | 1.6 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichloroethane | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,1-Dichloroethene | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| cis-1,2-Dichloroethene | 3.2 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| trans-1,2-Dichloroethene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichloropropane | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| cis-1,3-Dichloropropene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| trans-1,3-Dichloropropene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Ethylbenzene | 13 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 4-Ethyltoluene | 4.0 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Hexachlorobutadiene | ND | | 11 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 2-Hexanone | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Methylene Chloride | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 4-Methyl-2-pentanone (MIBK) | 17 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Styrene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Tetrachloroethene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Toluene | 76 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,2,4-Trichlorobenzene | ND | | 11 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Trichloroethene | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,4-Dioxane | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Trichlorofluoromethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,2,4-Trimethylbenzene | 9.2 | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| 1,3,5-Trimethylbenzene | 4.6 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Vinyl acetate | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV8-5

Lab Sample ID: 320-22882-5

Date Collected: 10/20/16 06:18

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | 12 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| m,p-Xylene | 48 | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| o-Xylene | 14 | | 2.2 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Naphthalene | ND | | 4.4 | | ppb v/v | | | 10/21/16 20:32 | 5.49 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 370 | | 65 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Benzene | 71 | | 7.0 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Benzyl chloride | ND | | 23 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Bromodichloromethane | ND | | 11 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Bromoform | ND | | 23 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Bromomethane | ND | | 17 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 2-Butanone (MEK) | 250 | | 13 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Carbon disulfide | 33 | | 14 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Carbon tetrachloride | ND | | 28 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Chlorobenzene | ND | | 7.6 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Dibromochloromethane | ND | | 19 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Chloroethane | ND | | 12 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Chloroform | ND | | 8.0 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Chloromethane | ND | | 9.1 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dibromoethane (EDB) | ND | | 34 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichlorobenzene | ND | | 13 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,3-Dichlorobenzene | ND | | 13 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,4-Dichlorobenzene | ND | | 13 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Dichlorodifluoromethane | ND | | 11 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,1-Dichloroethane | ND | | 6.7 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichloroethane | ND | | 18 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,1-Dichloroethene | ND | | 17 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| cis-1,2-Dichloroethene | 13 | | 8.7 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| trans-1,2-Dichloroethene | ND | | 8.7 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichloropropane | ND | | 10 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| cis-1,3-Dichloropropene | ND | | 10 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| trans-1,3-Dichloropropene | ND | | 10 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 15 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Ethylbenzene | 58 | | 9.5 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 4-Ethyltoluene | 20 | | 11 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Hexachlorobutadiene | ND | | 120 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 2-Hexanone | ND | | 9.0 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Methylene Chloride | ND | | 7.6 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 4-Methyl-2-pentanone (MIBK) | 68 | | 9.0 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Styrene | ND | | 9.4 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,1,2,2-Tetrachloroethane | ND | | 15 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Tetrachloroethene | ND | | 15 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Toluene | 290 | | 8.3 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,2,4-Trichlorobenzene | ND | | 81 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,1,1-Trichloroethane | ND | | 9.0 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,1,2-Trichloroethane | ND | | 12 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Trichloroethene | ND | | 12 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,4-Dioxane | ND | | 16 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV8-5

Lab Sample ID: 320-22882-5

Date Collected: 10/20/16 06:18

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 12 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 17 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,2,4-Trimethylbenzene | 45 | | 22 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| 1,3,5-Trimethylbenzene | 22 | | 11 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Vinyl acetate | ND | | 15 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Vinyl chloride | 30 | | 5.6 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| m,p-Xylene | 210 | | 19 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| o-Xylene | 61 | | 9.5 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Naphthalene | ND | | 23 | | ug/m3 | | | 10/21/16 20:32 | 5.49 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | | 10/21/16 20:32 | 5.49 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 | | | | | 10/21/16 20:32 | 5.49 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 10/21/16 20:32 | 5.49 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 1.2 | | 0.84 | | % v/v | | | 10/25/16 15:15 | 1.67 |
| Helium | ND | | 0.17 | | % v/v | | | 10/25/16 15:15 | 1.67 |
| Oxygen | 8.4 | | 0.33 | | % v/v | | | 10/25/16 15:15 | 1.67 |

Client Sample ID: PSV8-10

Lab Sample ID: 320-22882-6

Date Collected: 10/20/16 06:18

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|------|-----|---------|---|----------|----------------|---------|
| Acetone | 82 | | 14 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Benzene | 47 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Benzyl chloride | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Bromodichloromethane | ND | | 0.84 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Bromoform | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Bromomethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 2-Butanone (MEK) | 38 | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Carbon disulfide | 16 | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Carbon tetrachloride | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Chlorobenzene | ND | | 0.84 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Dibromochloromethane | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Chloroethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Chloroform | ND | | 0.84 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Chloromethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dibromoethane (EDB) | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichlorobenzene | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,3-Dichlorobenzene | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,4-Dichlorobenzene | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Dichlorodifluoromethane | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,1-Dichloroethane | ND | | 0.84 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichloroethane | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV8-10

Lab Sample ID: 320-22882-6

Date Collected: 10/20/16 06:18

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| cis-1,2-Dichloroethene | 7.6 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| trans-1,2-Dichloroethene | 1.6 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichloropropane | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| cis-1,3-Dichloropropene | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| trans-1,3-Dichloropropene | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Ethylbenzene | 14 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 4-Ethyltoluene | 2.2 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Hexachlorobutadiene | ND | | 5.6 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 2-Hexanone | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Methylene Chloride | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Styrene | 2.7 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Tetrachloroethene | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Toluene | 46 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,2,4-Trichlorobenzene | ND | | 5.6 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,1,1-Trichloroethane | ND | | 0.84 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,1,2-Trichloroethane | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Trichloroethene | 2.1 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,4-Dioxane | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Trichlorofluoromethane | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,2,4-Trimethylbenzene | 5.5 | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| 1,3,5-Trimethylbenzene | 2.7 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Vinyl acetate | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Vinyl chloride | 20 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| m,p-Xylene | 28 | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| o-Xylene | 8.8 | | 1.1 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Naphthalene | ND | | 2.2 | | ppb v/v | | | 10/21/16 21:23 | 2.8 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 190 | | 33 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Benzene | 150 | | 3.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Benzyl chloride | ND | | 12 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Bromodichloromethane | ND | | 5.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Bromoform | ND | | 12 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Bromomethane | ND | | 8.7 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 2-Butanone (MEK) | 110 | | 6.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Carbon disulfide | 49 | | 7.0 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Carbon tetrachloride | ND | | 14 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Chlorobenzene | ND | | 3.9 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Dibromochloromethane | ND | | 9.5 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Chloroethane | ND | | 5.9 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Chloroform | ND | | 4.1 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Chloromethane | ND | | 4.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dibromoethane (EDB) | ND | | 17 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichlorobenzene | ND | | 6.7 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV8-10

Lab Sample ID: 320-22882-6

Date Collected: 10/20/16 06:18

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 6.7 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,4-Dichlorobenzene | ND | | 6.7 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Dichlorodifluoromethane | ND | | 5.5 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,1-Dichloroethane | ND | | 3.4 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichloroethane | ND | | 9.1 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,1-Dichloroethene | ND | | 8.9 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| cis-1,2-Dichloroethene | 30 | | 4.4 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| trans-1,2-Dichloroethene | 6.3 | | 4.4 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichloropropane | ND | | 5.2 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| cis-1,3-Dichloropropene | ND | | 5.1 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| trans-1,3-Dichloropropene | ND | | 5.1 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 7.8 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Ethylbenzene | 63 | | 4.9 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 4-Ethyltoluene | 11 | | 5.5 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Hexachlorobutadiene | ND | | 60 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 2-Hexanone | ND | | 4.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Methylene Chloride | ND | | 3.9 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 4.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Styrene | 12 | | 4.8 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.7 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Tetrachloroethene | ND | | 7.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Toluene | 170 | | 4.2 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,2,4-Trichlorobenzene | ND | | 42 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,1,1-Trichloroethane | ND | | 4.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,1,2-Trichloroethane | ND | | 6.1 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Trichloroethene | 11 | | 6.0 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,4-Dioxane | ND | | 8.1 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Trichlorofluoromethane | ND | | 6.3 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 8.6 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,2,4-Trimethylbenzene | 27 | | 11 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| 1,3,5-Trimethylbenzene | 13 | | 5.5 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Vinyl acetate | ND | | 7.9 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Vinyl chloride | 51 | | 2.9 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| m,p-Xylene | 120 | | 9.7 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| o-Xylene | 38 | | 4.9 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |
| Naphthalene | ND | | 12 | | ug/m3 | | | 10/21/16 21:23 | 2.8 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | 10/21/16 21:23 | 2.8 |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 70 - 130 | | 10/21/16 21:23 | 2.8 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 10/21/16 21:23 | 2.8 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 2.8 | | 1.0 | | % v/v | | | 10/25/16 15:31 | 2 |
| Helium | ND | | 0.20 | | % v/v | | | 10/25/16 15:31 | 2 |
| Oxygen | 5.5 | | 0.40 | | % v/v | | | 10/25/16 15:31 | 2 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV9-5

Lab Sample ID: 320-22882-7

Date Collected: 10/20/16 06:56

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 160 | | 31 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Benzene | 16 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Benzyl chloride | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Bromodichloromethane | ND | | 1.9 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Bromoform | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Bromomethane | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 2-Butanone (MEK) | 110 | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Carbon disulfide | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Carbon tetrachloride | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Chlorobenzene | ND | | 1.9 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Dibromochloromethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Chloroethane | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Chloroform | ND | | 1.9 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Chloromethane | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,3-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,4-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Dichlorodifluoromethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,1-Dichloroethane | ND | | 1.9 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichloroethane | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,1-Dichloroethene | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| cis-1,2-Dichloroethene | 9.3 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| trans-1,2-Dichloroethene | 15 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichloropropane | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| cis-1,3-Dichloropropene | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| trans-1,3-Dichloropropene | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Ethylbenzene | 8.4 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 4-Ethyltoluene | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Hexachlorobutadiene | ND | | 12 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 2-Hexanone | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Methylene Chloride | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 4-Methyl-2-pentanone (MIBK) | 17 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Styrene | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Tetrachloroethene | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Toluene | 42 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,2,4-Trichlorobenzene | ND | | 12 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,1,1-Trichloroethane | ND | | 1.9 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,1,2-Trichloroethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Trichloroethene | 18 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,4-Dioxane | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Trichlorofluoromethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,2,4-Trimethylbenzene | 6.9 | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| 1,3,5-Trimethylbenzene | 2.9 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Vinyl acetate | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV9-5

Lab Sample ID: 320-22882-7

Date Collected: 10/20/16 06:56

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | 46 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| m,p-Xylene | 33 | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| o-Xylene | 9.3 | | 2.5 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Naphthalene | ND | | 5.0 | | ppb v/v | | | 10/21/16 22:13 | 6.21 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 370 | | 74 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Benzene | 51 | | 7.9 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Benzyl chloride | ND | | 26 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Bromodichloromethane | ND | | 12 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Bromoform | ND | | 26 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Bromomethane | ND | | 19 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 2-Butanone (MEK) | 320 | | 15 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Carbon disulfide | ND | | 15 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Carbon tetrachloride | ND | | 31 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Chlorobenzene | ND | | 8.6 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Dibromochloromethane | ND | | 21 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Chloroethane | ND | | 13 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Chloroform | ND | | 9.1 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Chloromethane | ND | | 10 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dibromoethane (EDB) | ND | | 38 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,3-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,4-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Dichlorodifluoromethane | ND | | 12 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,1-Dichloroethane | ND | | 7.5 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichloroethane | ND | | 20 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,1-Dichloroethene | ND | | 20 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| cis-1,2-Dichloroethene | 37 | | 9.8 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| trans-1,2-Dichloroethene | 58 | | 9.8 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichloropropane | ND | | 11 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| cis-1,3-Dichloropropene | ND | | 11 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| trans-1,3-Dichloropropene | ND | | 11 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 17 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Ethylbenzene | 36 | | 11 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 4-Ethyltoluene | ND | | 12 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Hexachlorobutadiene | ND | | 130 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 2-Hexanone | ND | | 10 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Methylene Chloride | ND | | 8.6 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 4-Methyl-2-pentanone (MIBK) | 68 | | 10 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Styrene | ND | | 11 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,1,2,2-Tetrachloroethane | ND | | 17 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Tetrachloroethene | ND | | 17 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Toluene | 160 | | 9.4 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,2,4-Trichlorobenzene | ND | | 92 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,1,1-Trichloroethane | ND | | 10 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,1,2-Trichloroethane | ND | | 14 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Trichloroethene | 95 | | 13 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,4-Dioxane | ND | | 18 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV9-5

Lab Sample ID: 320-22882-7

Date Collected: 10/20/16 06:56

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 14 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 19 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,2,4-Trimethylbenzene | 34 | | 24 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| 1,3,5-Trimethylbenzene | 14 | | 12 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Vinyl acetate | ND | | 17 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Vinyl chloride | 120 | | 6.3 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| m,p-Xylene | 140 | | 22 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| o-Xylene | 40 | | 11 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Naphthalene | ND | | 26 | | ug/m3 | | | 10/21/16 22:13 | 6.21 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | | 10/21/16 22:13 | 6.21 |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 70 - 130 | | | | | 10/21/16 22:13 | 6.21 |
| Toluene-d8 (Surr) | 102 | | 70 - 130 | | | | | 10/21/16 22:13 | 6.21 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 11 | | 0.95 | | % v/v | | | 10/25/16 16:03 | 1.89 |
| Helium | ND | | 0.19 | | % v/v | | | 10/25/16 16:03 | 1.89 |
| Oxygen | 1.9 | | 0.38 | | % v/v | | | 10/25/16 16:03 | 1.89 |

Client Sample ID: PSV9-9

Lab Sample ID: 320-22882-8

Date Collected: 10/20/16 06:56

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Acetone | 72 | | 15 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Benzene | 17 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Benzyl chloride | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Bromodichloromethane | ND | | 0.90 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Bromoform | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Bromomethane | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 2-Butanone (MEK) | 45 | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Carbon disulfide | 60 | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Carbon tetrachloride | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Chlorobenzene | 2.0 | | 0.90 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Dibromochloromethane | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Chloroethane | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Chloroform | ND | | 0.90 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Chloromethane | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dibromoethane (EDB) | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichlorobenzene | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,3-Dichlorobenzene | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,4-Dichlorobenzene | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Dichlorodifluoromethane | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,1-Dichloroethane | ND | | 0.90 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichloroethane | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV9-9

Lab Sample ID: 320-22882-8

Date Collected: 10/20/16 06:56

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 4.3 | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| cis-1,2-Dichloroethene | 25 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| trans-1,2-Dichloroethene | 27 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichloropropane | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| cis-1,3-Dichloropropene | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| trans-1,3-Dichloropropene | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Ethylbenzene | 5.2 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 4-Ethyltoluene | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Hexachlorobutadiene | ND | | 6.0 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 2-Hexanone | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Methylene Chloride | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 4-Methyl-2-pentanone (MIBK) | 12 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Styrene | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Tetrachloroethene | 7.1 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Toluene | 41 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,2,4-Trichlorobenzene | ND | | 6.0 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,1,1-Trichloroethane | ND | | 0.90 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,1,2-Trichloroethane | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Trichloroethene | 21 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,4-Dioxane | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Trichlorofluoromethane | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,2,4-Trimethylbenzene | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| 1,3,5-Trimethylbenzene | ND | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Vinyl acetate | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Vinyl chloride | 84 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| m,p-Xylene | 16 | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| o-Xylene | 4.6 | | 1.2 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Naphthalene | ND | | 2.4 | | ppb v/v | | | 10/21/16 23:04 | 2.99 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 170 | | 36 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Benzene | 53 | | 3.8 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Benzyl chloride | ND | | 12 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Bromodichloromethane | ND | | 6.0 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Bromoform | ND | | 12 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Bromomethane | ND | | 9.3 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 2-Butanone (MEK) | 130 | | 7.1 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Carbon disulfide | 190 | | 7.4 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Carbon tetrachloride | ND | | 15 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Chlorobenzene | 9.3 | | 4.1 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Dibromochloromethane | ND | | 10 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Chloroethane | ND | | 6.3 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Chloroform | ND | | 4.4 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Chloromethane | ND | | 4.9 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dibromoethane (EDB) | ND | | 18 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichlorobenzene | ND | | 7.2 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV9-9

Lab Sample ID: 320-22882-8

Date Collected: 10/20/16 06:56

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 7.2 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,4-Dichlorobenzene | ND | | 7.2 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Dichlorodifluoromethane | ND | | 5.9 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,1-Dichloroethane | ND | | 3.6 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichloroethane | ND | | 9.7 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,1-Dichloroethene | 17 | | 9.5 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| cis-1,2-Dichloroethene | 98 | | 4.7 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| trans-1,2-Dichloroethene | 110 | | 4.7 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichloropropane | ND | | 5.5 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| cis-1,3-Dichloropropene | ND | | 5.4 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| trans-1,3-Dichloropropene | ND | | 5.4 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 8.4 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Ethylbenzene | 23 | | 5.2 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 4-Ethyltoluene | ND | | 5.9 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Hexachlorobutadiene | ND | | 64 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 2-Hexanone | ND | | 4.9 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Methylene Chloride | ND | | 4.2 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 4-Methyl-2-pentanone (MIBK) | 48 | | 4.9 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Styrene | ND | | 5.1 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,1,2,2-Tetrachloroethane | ND | | 8.2 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Tetrachloroethene | 48 | | 8.1 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Toluene | 150 | | 4.5 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,2,4-Trichlorobenzene | ND | | 44 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,1,1-Trichloroethane | ND | | 4.9 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,1,2-Trichloroethane | ND | | 6.5 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Trichloroethene | 110 | | 6.4 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,4-Dioxane | ND | | 8.6 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Trichlorofluoromethane | ND | | 6.7 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 9.2 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,2,4-Trimethylbenzene | ND | | 12 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| 1,3,5-Trimethylbenzene | ND | | 5.9 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Vinyl acetate | ND | | 8.4 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Vinyl chloride | 210 | | 3.1 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| m,p-Xylene | 69 | | 10 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| o-Xylene | 20 | | 5.2 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |
| Naphthalene | ND | | 13 | | ug/m3 | | | 10/21/16 23:04 | 2.99 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | 10/21/16 23:04 | 2.99 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 | | 10/21/16 23:04 | 2.99 |
| Toluene-d8 (Surr) | 98 | | 70 - 130 | | 10/21/16 23:04 | 2.99 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 4.2 | | 0.98 | | % v/v | | | 10/25/16 16:13 | 1.95 |
| Helium | ND | | 0.20 | | % v/v | | | 10/25/16 16:13 | 1.95 |
| Oxygen | 1.7 | | 0.39 | | % v/v | | | 10/25/16 16:13 | 1.95 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV10-5

Lab Sample ID: 320-22882-9

Date Collected: 10/20/16 07:15

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 160 | | 32 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Benzene | 29 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Benzyl chloride | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Bromodichloromethane | ND | | 1.9 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Bromoform | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Bromomethane | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 2-Butanone (MEK) | 93 | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Carbon disulfide | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Carbon tetrachloride | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Chlorobenzene | ND | | 1.9 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Dibromochloromethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Chloroethane | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Chloroform | ND | | 1.9 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Chloromethane | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,3-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,4-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Dichlorodifluoromethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,1-Dichloroethane | ND | | 1.9 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichloroethane | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,1-Dichloroethene | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| cis-1,2-Dichloroethene | 23 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| trans-1,2-Dichloroethene | 17 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichloropropane | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| cis-1,3-Dichloropropene | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| trans-1,3-Dichloropropene | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Ethylbenzene | 9.7 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 4-Ethyltoluene | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Hexachlorobutadiene | ND | | 13 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 2-Hexanone | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Methylene Chloride | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 4-Methyl-2-pentanone (MIBK) | 22 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Styrene | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Tetrachloroethene | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Toluene | 56 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,2,4-Trichlorobenzene | ND | | 13 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,1,1-Trichloroethane | ND | | 1.9 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,1,2-Trichloroethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Trichloroethene | 15 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,4-Dioxane | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Trichlorofluoromethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,2,4-Trimethylbenzene | 8.2 | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| 1,3,5-Trimethylbenzene | 3.9 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Vinyl acetate | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV10-5

Lab Sample ID: 320-22882-9

Date Collected: 10/20/16 07:15

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | 78 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| m,p-Xylene | 35 | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| o-Xylene | 11 | | 2.5 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Naphthalene | ND | | 5.0 | | ppb v/v | | | 10/21/16 23:54 | 6.31 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 380 | | 75 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Benzene | 92 | | 8.1 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Benzyl chloride | ND | | 26 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Bromodichloromethane | ND | | 13 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Bromoform | ND | | 26 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Bromomethane | ND | | 20 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 2-Butanone (MEK) | 270 | | 15 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Carbon disulfide | ND | | 16 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Carbon tetrachloride | ND | | 32 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Chlorobenzene | ND | | 8.7 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Dibromochloromethane | ND | | 22 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Chloroethane | ND | | 13 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Chloroform | ND | | 9.2 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Chloromethane | ND | | 10 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dibromoethane (EDB) | ND | | 39 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,3-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,4-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Dichlorodifluoromethane | ND | | 12 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,1-Dichloroethane | ND | | 7.7 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichloroethane | ND | | 20 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,1-Dichloroethene | ND | | 20 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| cis-1,2-Dichloroethene | 90 | | 10 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| trans-1,2-Dichloroethene | 69 | | 10 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichloropropane | ND | | 12 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| cis-1,3-Dichloropropene | ND | | 11 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| trans-1,3-Dichloropropene | ND | | 11 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 18 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Ethylbenzene | 42 | | 11 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 4-Ethyltoluene | ND | | 12 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Hexachlorobutadiene | ND | | 130 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 2-Hexanone | ND | | 10 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Methylene Chloride | ND | | 8.8 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 4-Methyl-2-pentanone (MIBK) | 91 | | 10 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Styrene | ND | | 11 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,1,2,2-Tetrachloroethane | ND | | 17 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Tetrachloroethene | ND | | 17 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Toluene | 210 | | 9.5 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,2,4-Trichlorobenzene | ND | | 94 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,1,1-Trichloroethane | ND | | 10 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,1,2-Trichloroethane | ND | | 14 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Trichloroethene | 79 | | 14 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,4-Dioxane | ND | | 18 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV10-5

Lab Sample ID: 320-22882-9

Date Collected: 10/20/16 07:15

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 14 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 19 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,2,4-Trimethylbenzene | 40 | | 25 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| 1,3,5-Trimethylbenzene | 19 | | 12 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Vinyl acetate | ND | | 18 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Vinyl chloride | 200 | | 6.5 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| m,p-Xylene | 150 | | 22 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| o-Xylene | 47 | | 11 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Naphthalene | ND | | 26 | | ug/m3 | | | 10/21/16 23:54 | 6.31 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | | 10/21/16 23:54 | 6.31 |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 70 - 130 | | | | | 10/21/16 23:54 | 6.31 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | | | | 10/21/16 23:54 | 6.31 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 8.4 | | 0.82 | | % v/v | | | 10/25/16 16:19 | 1.64 |
| Helium | ND | | 0.16 | | % v/v | | | 10/25/16 16:19 | 1.64 |
| Oxygen | 1.5 | | 0.33 | | % v/v | | | 10/25/16 16:19 | 1.64 |

Client Sample ID: PSV10-10

Lab Sample ID: 320-22882-10

Date Collected: 10/20/16 07:15

Matrix: Air

Date Received: 10/20/16 18:23

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | ND | | 97 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Benzene | 540 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Benzyl chloride | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Bromodichloromethane | ND | | 5.8 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Bromoform | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Bromomethane | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 2-Butanone (MEK) | 38 | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Carbon disulfide | 33 | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Carbon tetrachloride | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Chlorobenzene | ND | | 5.8 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Dibromochloromethane | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Chloroethane | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Chloroform | ND | | 5.8 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Chloromethane | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dibromoethane (EDB) | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichlorobenzene | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,3-Dichlorobenzene | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,4-Dichlorobenzene | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Dichlorodifluoromethane | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,1-Dichloroethane | ND | | 5.8 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichloroethane | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV10-10

Lab Sample ID: 320-22882-10

Date Collected: 10/20/16 07:15

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|-------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| cis-1,2-Dichloroethene | 240 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| trans-1,2-Dichloroethene | 98 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichloropropane | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| cis-1,3-Dichloropropene | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| trans-1,3-Dichloropropene | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Ethylbenzene | 140 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 4-Ethyltoluene | 37 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Hexachlorobutadiene | ND | | 39 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 2-Hexanone | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Methylene Chloride | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Styrene | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,1,2,2-Tetrachloroethane | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Tetrachloroethene | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Toluene | 72 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,2,4-Trichlorobenzene | ND | | 39 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,1,1-Trichloroethane | ND | | 5.8 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,1,2-Trichloroethane | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Trichloroethene | 23 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,4-Dioxane | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Trichlorofluoromethane | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,2,4-Trimethylbenzene | 91 | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| 1,3,5-Trimethylbenzene | 58 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Vinyl acetate | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Vinyl chloride | 600 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| m,p-Xylene | 130 | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| o-Xylene | 89 | | 7.7 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Naphthalene | ND | | 15 | | ppb v/v | | | 10/22/16 00:44 | 19.34 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | ND | | 230 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Benzene | 1700 | | 25 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Benzyl chloride | ND | | 80 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Bromodichloromethane | ND | | 39 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Bromoform | ND | | 80 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Bromomethane | ND | | 60 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 2-Butanone (MEK) | 110 | | 46 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Carbon disulfide | 100 | | 48 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Carbon tetrachloride | ND | | 97 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Chlorobenzene | ND | | 27 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Dibromochloromethane | ND | | 66 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Chloroethane | ND | | 41 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Chloroform | ND | | 28 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Chloromethane | ND | | 32 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dibromoethane (EDB) | ND | | 120 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichlorobenzene | ND | | 47 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV10-10

Lab Sample ID: 320-22882-10

Date Collected: 10/20/16 07:15

Matrix: Air

Date Received: 10/20/16 18:23

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 |
|--|-------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 47 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,4-Dichlorobenzene | ND | | 47 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Dichlorodifluoromethane | ND | | 38 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,1-Dichloroethane | ND | | 23 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichloroethane | ND | | 63 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,1-Dichloroethene | ND | | 61 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| cis-1,2-Dichloroethene | 950 | | 31 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| trans-1,2-Dichloroethene | 390 | | 31 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichloropropane | ND | | 36 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| cis-1,3-Dichloropropene | ND | | 35 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| trans-1,3-Dichloropropene | ND | | 35 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 54 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Ethylbenzene | 610 | | 34 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 4-Ethyltoluene | 180 | | 38 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Hexachlorobutadiene | ND | | 410 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 2-Hexanone | ND | | 32 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Methylene Chloride | ND | | 27 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 32 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Styrene | ND | | 33 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,1,2,2-Tetrachloroethane | ND | | 53 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Tetrachloroethene | ND | | 52 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Toluene | 270 | | 29 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,2,4-Trichlorobenzene | ND | | 290 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,1,1-Trichloroethane | ND | | 32 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,1,2-Trichloroethane | ND | | 42 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Trichloroethene | 120 | | 42 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,4-Dioxane | ND | | 56 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Trichlorofluoromethane | ND | | 43 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 59 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,2,4-Trimethylbenzene | 450 | | 76 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| 1,3,5-Trimethylbenzene | 280 | | 38 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Vinyl acetate | ND | | 54 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Vinyl chloride | 1500 | | 20 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| m,p-Xylene | 580 | | 67 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| o-Xylene | 390 | | 34 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |
| Naphthalene | ND | | 81 | | ug/m3 | | | 10/22/16 00:44 | 19.34 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | 10/22/16 00:44 | 19.34 |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 70 - 130 | | 10/22/16 00:44 | 19.34 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | 10/22/16 00:44 | 19.34 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.97 | | % v/v | | | 10/25/16 16:40 | 1.93 |
| Helium | ND | | 0.19 | | % v/v | | | 10/25/16 16:40 | 1.93 |
| Oxygen | 1.3 | | 0.39 | | % v/v | | | 10/25/16 16:40 | 1.93 |

TestAmerica Sacramento

Surrogate Summary

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

TestAmerica Job ID: 320-22882-1

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

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) | 12DCE (70-130) | TOL (70-130) |
|-------------------|------------------------|-----------------|-------------------|-----------------|
| 320-22882-1 | PSV6-5 | 106 | 101 | 104 |
| 320-22882-2 | PSV6-10 | 105 | 109 | 98 |
| 320-22882-3 | PSV7-5 | 103 | 99 | 101 |
| 320-22882-4 | PSV7-10 | 109 | 135 X | 99 |
| 320-22882-5 | PSV8-5 | 103 | 96 | 101 |
| 320-22882-6 | PSV8-10 | 105 | 106 | 100 |
| 320-22882-7 | PSV9-5 | 103 | 94 | 102 |
| 320-22882-8 | PSV9-9 | 103 | 96 | 98 |
| 320-22882-9 | PSV10-5 | 103 | 95 | 100 |
| 320-22882-10 | PSV10-10 | 106 | 97 | 97 |
| LCS 320-133804/3 | Lab Control Sample | 108 | 100 | 101 |
| LCSD 320-133804/4 | Lab Control Sample Dup | 107 | 100 | 100 |
| MB 320-133804/6 | Method Blank | 97 | 100 | 99 |

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: 320-22882-1

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

Lab Sample ID: MB 320-133804/6
Matrix: Air
Analysis Batch: 133804

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 | | | 10/21/16 15:58 | 1 |
| Benzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Benzyl chloride | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Bromodichloromethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Bromoform | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Bromomethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 2-Butanone (MEK) | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Carbon disulfide | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Carbon tetrachloride | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Chlorobenzene | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Dibromochloromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Chloroethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Chloroform | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Chloromethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Dichlorodifluoromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1-Dichloroethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloroethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloropropane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Ethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 4-Ethyltoluene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 2-Hexanone | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Methylene Chloride | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Styrene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Tetrachloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Toluene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Trichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,4-Dioxane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Trichlorofluoromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Vinyl acetate | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22882-1

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

Lab Sample ID: MB 320-133804/6
Matrix: Air
Analysis Batch: 133804

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|-----|---------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Vinyl chloride | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| m,p-Xylene | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| o-Xylene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Naphthalene | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Result | Qualifier | | | | | | | |
| Acetone | ND | | 12 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Benzene | ND | | 1.3 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Benzyl chloride | ND | | 4.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Bromoform | ND | | 4.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Bromomethane | ND | | 3.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 2-Butanone (MEK) | ND | | 2.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Carbon disulfide | ND | | 2.5 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Chlorobenzene | ND | | 1.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Dibromochloromethane | ND | | 3.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Chloroethane | ND | | 2.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Chloroform | ND | | 1.5 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Chloromethane | ND | | 1.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1-Dichloroethane | ND | | 1.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloropropane | ND | | 1.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Ethylbenzene | ND | | 1.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 4-Ethyltoluene | ND | | 2.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Hexachlorobutadiene | ND | | 21 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 2-Hexanone | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Methylene Chloride | ND | | 1.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Styrene | ND | | 1.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Tetrachloroethene | ND | | 2.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Toluene | ND | | 1.5 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Trichloroethene | ND | | 2.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22882-1

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

Lab Sample ID: MB 320-133804/6
Matrix: Air
Analysis Batch: 133804

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------------|--------------|----------|-----|-------|---|----------|----------------|---------|
| 1,4-Dioxane | ND | | 2.9 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Trichlorofluoromethane | ND | | 2.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.9 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Vinyl acetate | ND | | 2.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| m,p-Xylene | ND | | 3.5 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| o-Xylene | ND | | 1.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Naphthalene | ND | | 4.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 70 - 130 | | | | | 10/21/16 15:58 | 1 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | | 10/21/16 15:58 | 1 |

Lab Sample ID: LCS 320-133804/3
Matrix: Air
Analysis Batch: 133804

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|---------|---|------|--------------|
| Acetone | 20.0 | 18.0 | | ppb v/v | | 90 | 71 - 131 |
| Benzene | 20.0 | 19.6 | | ppb v/v | | 98 | 68 - 128 |
| Benzyl chloride | 20.0 | 18.8 | | ppb v/v | | 94 | 58 - 120 |
| Bromodichloromethane | 20.0 | 20.2 | | ppb v/v | | 101 | 65 - 130 |
| Bromoform | 20.0 | 21.6 | | ppb v/v | | 108 | 64 - 144 |
| Bromomethane | 20.0 | 21.2 | | ppb v/v | | 106 | 70 - 131 |
| 2-Butanone (MEK) | 20.0 | 18.9 | | ppb v/v | | 94 | 71 - 131 |
| Carbon disulfide | 20.0 | 18.4 | | ppb v/v | | 92 | 63 - 123 |
| Carbon tetrachloride | 20.0 | 20.8 | | ppb v/v | | 104 | 67 - 127 |
| Chlorobenzene | 20.0 | 20.4 | | ppb v/v | | 102 | 70 - 132 |
| Dibromochloromethane | 20.0 | 20.7 | | ppb v/v | | 104 | 68 - 128 |
| Chloroethane | 20.0 | 20.1 | | ppb v/v | | 101 | 70 - 131 |
| Chloroform | 20.0 | 20.0 | | ppb v/v | | 100 | 69 - 129 |
| Chloromethane | 20.0 | 19.2 | | ppb v/v | | 96 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.8 | | ppb v/v | | 104 | 68 - 131 |
| 1,2-Dichlorobenzene | 20.0 | 23.6 | | ppb v/v | | 118 | 73 - 143 |
| 1,3-Dichlorobenzene | 20.0 | 23.1 | | ppb v/v | | 115 | 77 - 136 |
| 1,4-Dichlorobenzene | 20.0 | 23.6 | | ppb v/v | | 118 | 73 - 143 |
| Dichlorodifluoromethane | 20.0 | 20.3 | | ppb v/v | | 102 | 69 - 129 |
| 1,1-Dichloroethane | 20.0 | 18.9 | | ppb v/v | | 95 | 65 - 125 |
| 1,2-Dichloroethane | 20.0 | 20.4 | | ppb v/v | | 102 | 71 - 131 |
| 1,1-Dichloroethene | 20.0 | 17.7 | | ppb v/v | | 89 | 53 - 128 |
| cis-1,2-Dichloroethene | 20.0 | 19.7 | | ppb v/v | | 99 | 68 - 128 |
| trans-1,2-Dichloroethene | 20.0 | 18.9 | | ppb v/v | | 95 | 70 - 130 |
| 1,2-Dichloropropane | 20.0 | 20.9 | | ppb v/v | | 105 | 74 - 128 |
| cis-1,3-Dichloropropene | 20.0 | 22.2 | | ppb v/v | | 111 | 78 - 132 |
| trans-1,3-Dichloropropene | 20.0 | 18.7 | | ppb v/v | | 93 | 56 - 136 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22882-1

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

Lab Sample ID: LCS 320-133804/3

Matrix: Air

Analysis Batch: 133804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 20.8 | | ppb v/v | | 104 | 64 - 124 |
| Ethylbenzene | 20.0 | 20.7 | | ppb v/v | | 104 | 76 - 136 |
| 4-Ethyltoluene | 20.0 | 21.3 | | ppb v/v | | 107 | 62 - 136 |
| Hexachlorobutadiene | 20.0 | 23.3 | | ppb v/v | | 116 | 42 - 150 |
| 2-Hexanone | 20.0 | 21.0 | | ppb v/v | | 105 | 70 - 128 |
| Methylene Chloride | 20.0 | 16.7 | | ppb v/v | | 83 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 19.9 | | ppb v/v | | 99 | 73 - 133 |
| Styrene | 20.0 | 21.8 | | ppb v/v | | 109 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 21.2 | | ppb v/v | | 106 | 75 - 135 |
| Tetrachloroethene | 20.0 | 20.5 | | ppb v/v | | 102 | 56 - 138 |
| Toluene | 20.0 | 20.4 | | ppb v/v | | 102 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 20.0 | 26.0 | | ppb v/v | | 130 | 59 - 150 |
| 1,1,1-Trichloroethane | 20.0 | 20.7 | | ppb v/v | | 103 | 65 - 124 |
| 1,1,2-Trichloroethane | 20.0 | 20.9 | | ppb v/v | | 104 | 71 - 131 |
| Trichloroethene | 20.0 | 20.4 | | ppb v/v | | 102 | 64 - 127 |
| 1,4-Dioxane | 20.0 | 21.5 | | ppb v/v | | 108 | 55 - 141 |
| Trichlorofluoromethane | 20.0 | 21.0 | | ppb v/v | | 105 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 18.3 | | ppb v/v | | 91 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.5 | | ppb v/v | | 107 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.7 | | ppb v/v | | 104 | 65 - 136 |
| Vinyl acetate | 20.0 | 19.8 | | ppb v/v | | 99 | 77 - 134 |
| Vinyl chloride | 20.0 | 20.1 | | ppb v/v | | 101 | 69 - 129 |
| m,p-Xylene | 40.0 | 41.9 | | ppb v/v | | 105 | 75 - 138 |
| o-Xylene | 20.0 | 21.2 | | ppb v/v | | 106 | 77 - 132 |
| Naphthalene | 20.0 | 25.6 | | ppb v/v | | 128 | 58 - 150 |
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
| Acetone | 48 | 42.7 | | ug/m3 | | 90 | 71 - 131 |
| Benzene | 64 | 62.5 | | ug/m3 | | 98 | 68 - 128 |
| Benzyl chloride | 100 | 97.2 | | ug/m3 | | 94 | 58 - 120 |
| Bromodichloromethane | 130 | 136 | | ug/m3 | | 101 | 65 - 130 |
| Bromoform | 210 | 223 | | ug/m3 | | 108 | 64 - 144 |
| Bromomethane | 78 | 82.3 | | ug/m3 | | 106 | 70 - 131 |
| 2-Butanone (MEK) | 59 | 55.6 | | ug/m3 | | 94 | 71 - 131 |
| Carbon disulfide | 62 | 57.4 | | ug/m3 | | 92 | 63 - 123 |
| Carbon tetrachloride | 130 | 131 | | ug/m3 | | 104 | 67 - 127 |
| Chlorobenzene | 92 | 93.7 | | ug/m3 | | 102 | 70 - 132 |
| Dibromochloromethane | 170 | 176 | | ug/m3 | | 104 | 68 - 128 |
| Chloroethane | 53 | 53.0 | | ug/m3 | | 101 | 70 - 131 |
| Chloroform | 98 | 97.5 | | ug/m3 | | 100 | 69 - 129 |
| Chloromethane | 41 | 39.6 | | ug/m3 | | 96 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 150 | 160 | | ug/m3 | | 104 | 68 - 131 |
| 1,2-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 73 - 143 |
| 1,3-Dichlorobenzene | 120 | 139 | | ug/m3 | | 115 | 77 - 136 |
| 1,4-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 73 - 143 |
| Dichlorodifluoromethane | 99 | 100 | | ug/m3 | | 102 | 69 - 129 |
| 1,1-Dichloroethane | 81 | 76.6 | | ug/m3 | | 95 | 65 - 125 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22882-1

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

Lab Sample ID: LCS 320-133804/3
Matrix: Air
Analysis Batch: 133804

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|-------|---|------|--------------|
| 1,2-Dichloroethane | 81 | 82.6 | | ug/m3 | | 102 | 71 - 131 |
| 1,1-Dichloroethene | 79 | 70.2 | | ug/m3 | | 89 | 53 - 128 |
| cis-1,2-Dichloroethene | 79 | 78.2 | | ug/m3 | | 99 | 68 - 128 |
| trans-1,2-Dichloroethene | 79 | 75.1 | | ug/m3 | | 95 | 70 - 130 |
| 1,2-Dichloropropane | 92 | 96.6 | | ug/m3 | | 105 | 74 - 128 |
| cis-1,3-Dichloropropene | 91 | 101 | | ug/m3 | | 111 | 78 - 132 |
| trans-1,3-Dichloropropene | 91 | 84.8 | | ug/m3 | | 93 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 146 | | ug/m3 | | 104 | 64 - 124 |
| Ethylbenzene | 87 | 90.0 | | ug/m3 | | 104 | 76 - 136 |
| 4-Ethyltoluene | 98 | 105 | | ug/m3 | | 107 | 62 - 136 |
| Hexachlorobutadiene | 210 | 248 | | ug/m3 | | 116 | 42 - 150 |
| 2-Hexanone | 82 | 86.2 | | ug/m3 | | 105 | 70 - 128 |
| Methylene Chloride | 69 | 58.0 | | ug/m3 | | 83 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 81.4 | | ug/m3 | | 99 | 73 - 133 |
| Styrene | 85 | 92.9 | | ug/m3 | | 109 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 140 | 146 | | ug/m3 | | 106 | 75 - 135 |
| Tetrachloroethene | 140 | 139 | | ug/m3 | | 102 | 56 - 138 |
| Toluene | 75 | 76.8 | | ug/m3 | | 102 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 150 | 193 | | ug/m3 | | 130 | 59 - 150 |
| 1,1,1-Trichloroethane | 110 | 113 | | ug/m3 | | 103 | 65 - 124 |
| 1,1,2-Trichloroethane | 110 | 114 | | ug/m3 | | 104 | 71 - 131 |
| Trichloroethene | 110 | 110 | | ug/m3 | | 102 | 64 - 127 |
| 1,4-Dioxane | 72 | 77.6 | | ug/m3 | | 108 | 55 - 141 |
| Trichlorofluoromethane | 110 | 118 | | ug/m3 | | 105 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 140 | | ug/m3 | | 91 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 98 | 106 | | ug/m3 | | 107 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 98 | 102 | | ug/m3 | | 104 | 65 - 136 |
| Vinyl acetate | 70 | 69.8 | | ug/m3 | | 99 | 77 - 134 |
| Vinyl chloride | 51 | 51.5 | | ug/m3 | | 101 | 69 - 129 |
| m,p-Xylene | 170 | 182 | | ug/m3 | | 105 | 75 - 138 |
| o-Xylene | 87 | 92.1 | | ug/m3 | | 106 | 77 - 132 |
| Naphthalene | 100 | 134 | | ug/m3 | | 128 | 58 - 150 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 70 - 130 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCSD 320-133804/4
Matrix: Air
Analysis Batch: 133804

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| Acetone | 20.0 | 18.0 | | ppb v/v | | 90 | 71 - 131 | 0 | 25 |
| Benzene | 20.0 | 19.7 | | ppb v/v | | 99 | 68 - 128 | 1 | 25 |
| Benzyl chloride | 20.0 | 19.6 | | ppb v/v | | 98 | 58 - 120 | 4 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22882-1

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

Lab Sample ID: LCSD 320-133804/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133804

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| Bromodichloromethane | 20.0 | 20.3 | | ppb v/v | | 102 | 65 - 130 | 1 | 25 |
| Bromoform | 20.0 | 21.6 | | ppb v/v | | 108 | 64 - 144 | 0 | 25 |
| Bromomethane | 20.0 | 21.3 | | ppb v/v | | 107 | 70 - 131 | 1 | 25 |
| 2-Butanone (MEK) | 20.0 | 19.2 | | ppb v/v | | 96 | 71 - 131 | 2 | 25 |
| Carbon disulfide | 20.0 | 18.5 | | ppb v/v | | 92 | 63 - 123 | 0 | 25 |
| Carbon tetrachloride | 20.0 | 20.5 | | ppb v/v | | 103 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 20.0 | 20.5 | | ppb v/v | | 102 | 70 - 132 | 1 | 25 |
| Dibromochloromethane | 20.0 | 20.6 | | ppb v/v | | 103 | 68 - 128 | 1 | 25 |
| Chloroethane | 20.0 | 20.6 | | ppb v/v | | 103 | 70 - 131 | 2 | 25 |
| Chloroform | 20.0 | 20.0 | | ppb v/v | | 100 | 69 - 129 | 0 | 25 |
| Chloromethane | 20.0 | 19.7 | | ppb v/v | | 98 | 67 - 127 | 2 | 25 |
| 1,2-Dibromoethane (EDB) | 20.0 | 21.0 | | ppb v/v | | 105 | 68 - 131 | 1 | 25 |
| 1,2-Dichlorobenzene | 20.0 | 24.0 | | ppb v/v | | 120 | 73 - 143 | 2 | 25 |
| 1,3-Dichlorobenzene | 20.0 | 23.7 | | ppb v/v | | 118 | 77 - 136 | 2 | 25 |
| 1,4-Dichlorobenzene | 20.0 | 24.1 | | ppb v/v | | 120 | 73 - 143 | 2 | 25 |
| Dichlorodifluoromethane | 20.0 | 20.1 | | ppb v/v | | 101 | 69 - 129 | 1 | 25 |
| 1,1-Dichloroethane | 20.0 | 18.9 | | ppb v/v | | 95 | 65 - 125 | 0 | 25 |
| 1,2-Dichloroethane | 20.0 | 20.2 | | ppb v/v | | 101 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 20.0 | 17.5 | | ppb v/v | | 88 | 53 - 128 | 1 | 25 |
| cis-1,2-Dichloroethene | 20.0 | 19.9 | | ppb v/v | | 99 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 20.0 | 18.9 | | ppb v/v | | 94 | 70 - 130 | 0 | 25 |
| 1,2-Dichloropropane | 20.0 | 21.2 | | ppb v/v | | 106 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 20.0 | 22.5 | | ppb v/v | | 112 | 78 - 132 | 1 | 25 |
| trans-1,3-Dichloropropene | 20.0 | 19.1 | | ppb v/v | | 95 | 56 - 136 | 2 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 21.5 | | ppb v/v | | 107 | 64 - 124 | 3 | 25 |
| Ethylbenzene | 20.0 | 20.8 | | ppb v/v | | 104 | 76 - 136 | 1 | 25 |
| 4-Ethyltoluene | 20.0 | 21.6 | | ppb v/v | | 108 | 62 - 136 | 1 | 25 |
| Hexachlorobutadiene | 20.0 | 23.6 | | ppb v/v | | 118 | 42 - 150 | 1 | 25 |
| 2-Hexanone | 20.0 | 21.5 | | ppb v/v | | 107 | 70 - 128 | 2 | 25 |
| Methylene Chloride | 20.0 | 16.8 | | ppb v/v | | 84 | 65 - 125 | 0 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 20.0 | | ppb v/v | | 100 | 73 - 133 | 0 | 25 |
| Styrene | 20.0 | 22.0 | | ppb v/v | | 110 | 76 - 144 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 21.5 | | ppb v/v | | 108 | 75 - 135 | 2 | 25 |
| Tetrachloroethene | 20.0 | 20.5 | | ppb v/v | | 103 | 56 - 138 | 0 | 25 |
| Toluene | 20.0 | 20.5 | | ppb v/v | | 102 | 71 - 132 | 0 | 25 |
| 1,2,4-Trichlorobenzene | 20.0 | 26.5 | | ppb v/v | | 132 | 59 - 150 | 2 | 25 |
| 1,1,1-Trichloroethane | 20.0 | 20.3 | | ppb v/v | | 101 | 65 - 124 | 2 | 25 |
| 1,1,2-Trichloroethane | 20.0 | 21.1 | | ppb v/v | | 105 | 71 - 131 | 1 | 25 |
| Trichloroethene | 20.0 | 20.7 | | ppb v/v | | 104 | 64 - 127 | 2 | 25 |
| 1,4-Dioxane | 20.0 | 21.8 | | ppb v/v | | 109 | 55 - 141 | 1 | 25 |
| Trichlorofluoromethane | 20.0 | 20.9 | | ppb v/v | | 105 | 68 - 128 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 18.2 | | ppb v/v | | 91 | 50 - 132 | 0 | 25 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.7 | | ppb v/v | | 109 | 61 - 145 | 1 | 25 |
| 1,3,5-Trimethylbenzene | 20.0 | 21.0 | | ppb v/v | | 105 | 65 - 136 | 1 | 25 |
| Vinyl acetate | 20.0 | 19.8 | | ppb v/v | | 99 | 77 - 134 | 0 | 25 |
| Vinyl chloride | 20.0 | 20.6 | | ppb v/v | | 103 | 69 - 129 | 2 | 25 |
| m,p-Xylene | 40.0 | 42.4 | | ppb v/v | | 106 | 75 - 138 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22882-1

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

Lab Sample ID: LCSD 320-133804/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133804

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| o-Xylene | 20.0 | 21.3 | | ppb v/v | | 107 | 77 - 132 | 1 | 25 |
| Naphthalene | 20.0 | 26.2 | | ppb v/v | | 131 | 58 - 150 | 3 | 25 |
| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
| Acetone | 48 | 42.8 | | ug/m3 | | 90 | 71 - 131 | 0 | 25 |
| Benzene | 64 | 63.0 | | ug/m3 | | 99 | 68 - 128 | 1 | 25 |
| Benzyl chloride | 100 | 101 | | ug/m3 | | 98 | 58 - 120 | 4 | 25 |
| Bromodichloromethane | 130 | 136 | | ug/m3 | | 102 | 65 - 130 | 1 | 25 |
| Bromoform | 210 | 224 | | ug/m3 | | 108 | 64 - 144 | 0 | 25 |
| Bromomethane | 78 | 82.8 | | ug/m3 | | 107 | 70 - 131 | 1 | 25 |
| 2-Butanone (MEK) | 59 | 56.5 | | ug/m3 | | 96 | 71 - 131 | 2 | 25 |
| Carbon disulfide | 62 | 57.5 | | ug/m3 | | 92 | 63 - 123 | 0 | 25 |
| Carbon tetrachloride | 130 | 129 | | ug/m3 | | 103 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 92 | 94.3 | | ug/m3 | | 102 | 70 - 132 | 1 | 25 |
| Dibromochloromethane | 170 | 175 | | ug/m3 | | 103 | 68 - 128 | 1 | 25 |
| Chloroethane | 53 | 54.3 | | ug/m3 | | 103 | 70 - 131 | 2 | 25 |
| Chloroform | 98 | 97.5 | | ug/m3 | | 100 | 69 - 129 | 0 | 25 |
| Chloromethane | 41 | 40.6 | | ug/m3 | | 98 | 67 - 127 | 2 | 25 |
| 1,2-Dibromoethane (EDB) | 150 | 162 | | ug/m3 | | 105 | 68 - 131 | 1 | 25 |
| 1,2-Dichlorobenzene | 120 | 145 | | ug/m3 | | 120 | 73 - 143 | 2 | 25 |
| 1,3-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 77 - 136 | 2 | 25 |
| 1,4-Dichlorobenzene | 120 | 145 | | ug/m3 | | 120 | 73 - 143 | 2 | 25 |
| Dichlorodifluoromethane | 99 | 99.6 | | ug/m3 | | 101 | 69 - 129 | 1 | 25 |
| 1,1-Dichloroethane | 81 | 76.7 | | ug/m3 | | 95 | 65 - 125 | 0 | 25 |
| 1,2-Dichloroethane | 81 | 81.8 | | ug/m3 | | 101 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 79 | 69.4 | | ug/m3 | | 88 | 53 - 128 | 1 | 25 |
| cis-1,2-Dichloroethene | 79 | 78.8 | | ug/m3 | | 99 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 79 | 74.9 | | ug/m3 | | 94 | 70 - 130 | 0 | 25 |
| 1,2-Dichloropropane | 92 | 97.8 | | ug/m3 | | 106 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 91 | 102 | | ug/m3 | | 112 | 78 - 132 | 1 | 25 |
| trans-1,3-Dichloropropene | 91 | 86.7 | | ug/m3 | | 95 | 56 - 136 | 2 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 150 | | ug/m3 | | 107 | 64 - 124 | 3 | 25 |
| Ethylbenzene | 87 | 90.4 | | ug/m3 | | 104 | 76 - 136 | 1 | 25 |
| 4-Ethyltoluene | 98 | 106 | | ug/m3 | | 108 | 62 - 136 | 1 | 25 |
| Hexachlorobutadiene | 210 | 252 | | ug/m3 | | 118 | 42 - 150 | 1 | 25 |
| 2-Hexanone | 82 | 88.1 | | ug/m3 | | 107 | 70 - 128 | 2 | 25 |
| Methylene Chloride | 69 | 58.2 | | ug/m3 | | 84 | 65 - 125 | 0 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 81.8 | | ug/m3 | | 100 | 73 - 133 | 0 | 25 |
| Styrene | 85 | 93.5 | | ug/m3 | | 110 | 76 - 144 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 140 | 148 | | ug/m3 | | 108 | 75 - 135 | 2 | 25 |
| Tetrachloroethene | 140 | 139 | | ug/m3 | | 103 | 56 - 138 | 0 | 25 |
| Toluene | 75 | 77.1 | | ug/m3 | | 102 | 71 - 132 | 0 | 25 |
| 1,2,4-Trichlorobenzene | 150 | 197 | | ug/m3 | | 132 | 59 - 150 | 2 | 25 |
| 1,1,1-Trichloroethane | 110 | 111 | | ug/m3 | | 101 | 65 - 124 | 2 | 25 |
| 1,1,2-Trichloroethane | 110 | 115 | | ug/m3 | | 105 | 71 - 131 | 1 | 25 |
| Trichloroethene | 110 | 111 | | ug/m3 | | 104 | 64 - 127 | 2 | 25 |
| 1,4-Dioxane | 72 | 78.4 | | ug/m3 | | 109 | 55 - 141 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22882-1

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

Lab Sample ID: LCSD 320-133804/4
Matrix: Air
Analysis Batch: 133804

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Trichlorofluoromethane | 110 | 118 | | ug/m3 | | 105 | 68 - 128 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 140 | | ug/m3 | | 91 | 50 - 132 | 0 | 25 |
| 1,2,4-Trimethylbenzene | 98 | 107 | | ug/m3 | | 109 | 61 - 145 | 1 | 25 |
| 1,3,5-Trimethylbenzene | 98 | 103 | | ug/m3 | | 105 | 65 - 136 | 1 | 25 |
| Vinyl acetate | 70 | 69.7 | | ug/m3 | | 99 | 77 - 134 | 0 | 25 |
| Vinyl chloride | 51 | 52.6 | | ug/m3 | | 103 | 69 - 129 | 2 | 25 |
| m,p-Xylene | 170 | 184 | | ug/m3 | | 106 | 75 - 138 | 1 | 25 |
| o-Xylene | 87 | 92.6 | | ug/m3 | | 107 | 77 - 132 | 1 | 25 |
| Naphthalene | 100 | 137 | | ug/m3 | | 131 | 58 - 150 | 3 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |

Method: D1946 - Fixed Gases in Air (GC)

Lab Sample ID: MB 320-134314/7
Matrix: Air
Analysis Batch: 134314

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.50 | | % v/v | | | 10/25/16 13:14 | 1 |
| Oxygen | ND | | 0.20 | | % v/v | | | 10/25/16 13:14 | 1 |

Lab Sample ID: MB 320-134314/8
Matrix: Air
Analysis Batch: 134314

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Helium | ND | | 0.10 | | % v/v | | | 10/25/16 13:23 | 1 |

Lab Sample ID: LCS 320-134314/2
Matrix: Air
Analysis Batch: 134314

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|-------|---|------|--------------|
| Carbon Dioxide (TCD) | 25.5 | 27.6 | | % v/v | | 108 | 80 - 120 |

Lab Sample ID: LCS 320-134314/5
Matrix: Air
Analysis Batch: 134314

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Helium | 16.0 | 16.0 | | % v/v | | 100 | 80 - 120 |
| Oxygen | 17.1 | 15.2 | | % v/v | | 89 | 80 - 120 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22882-1

Method: D1946 - Fixed Gases in Air (GC) (Continued)

Lab Sample ID: LCSD 320-134314/3
Matrix: Air
Analysis Batch: 134314

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Carbon Dioxide (TCD) | 25.5 | 27.7 | | % v/v | | 109 | 80 - 120 | 0 | 20 |

Lab Sample ID: LCSD 320-134314/6
Matrix: Air
Analysis Batch: 134314

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Helium | 16.0 | 15.7 | | % v/v | | 98 | 80 - 120 | 2 | 20 |
| Oxygen | 17.1 | 15.1 | | % v/v | | 88 | 80 - 120 | 1 | 20 |



QC Association Summary

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

TestAmerica Job ID: 320-22882-1

Air - GC/MS VOA

Analysis Batch: 133804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22882-1 | PSV6-5 | Total/NA | Air | TO-15 | |
| 320-22882-2 | PSV6-10 | Total/NA | Air | TO-15 | |
| 320-22882-3 | PSV7-5 | Total/NA | Air | TO-15 | |
| 320-22882-4 | PSV7-10 | Total/NA | Air | TO-15 | |
| 320-22882-5 | PSV8-5 | Total/NA | Air | TO-15 | |
| 320-22882-6 | PSV8-10 | Total/NA | Air | TO-15 | |
| 320-22882-7 | PSV9-5 | Total/NA | Air | TO-15 | |
| 320-22882-8 | PSV9-9 | Total/NA | Air | TO-15 | |
| 320-22882-9 | PSV10-5 | Total/NA | Air | TO-15 | |
| 320-22882-10 | PSV10-10 | Total/NA | Air | TO-15 | |
| MB 320-133804/6 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 320-133804/3 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 320-133804/4 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

Air - GC VOA

Analysis Batch: 134314

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22882-1 | PSV6-5 | Total/NA | Air | D1946 | |
| 320-22882-2 | PSV6-10 | Total/NA | Air | D1946 | |
| 320-22882-3 | PSV7-5 | Total/NA | Air | D1946 | |
| 320-22882-4 | PSV7-10 | Total/NA | Air | D1946 | |
| 320-22882-5 | PSV8-5 | Total/NA | Air | D1946 | |
| 320-22882-6 | PSV8-10 | Total/NA | Air | D1946 | |
| 320-22882-7 | PSV9-5 | Total/NA | Air | D1946 | |
| 320-22882-8 | PSV9-9 | Total/NA | Air | D1946 | |
| 320-22882-9 | PSV10-5 | Total/NA | Air | D1946 | |
| 320-22882-10 | PSV10-10 | Total/NA | Air | D1946 | |
| MB 320-134314/7 | Method Blank | Total/NA | Air | D1946 | |
| MB 320-134314/8 | Method Blank | Total/NA | Air | D1946 | |
| LCS 320-134314/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCS 320-134314/5 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 320-134314/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |
| LCSD 320-134314/6 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

Lab Chronicle

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV6-5
Date Collected: 10/20/16 05:06
Date Received: 10/20/16 18:23

Lab Sample ID: 320-22882-1
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 | | 4.23 | 97 mL | 250 mL | 133804 | 10/21/16 17:10 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.64 | 50 mL | 50 mL | 134314 | 10/25/16 14:29 | AMAO | TAL SAC |

Client Sample ID: PSV6-10
Date Collected: 10/20/16 05:06
Date Received: 10/20/16 18:23

Lab Sample ID: 320-22882-2
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 | | 5.24 | 74 mL | 250 mL | 133804 | 10/21/16 18:00 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.55 | 50 mL | 50 mL | 134314 | 10/25/16 14:54 | AMAO | TAL SAC |

Client Sample ID: PSV7-5
Date Collected: 10/20/16 05:45
Date Received: 10/20/16 18:23

Lab Sample ID: 320-22882-3
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 | | 3.27 | 115 mL | 250 mL | 133804 | 10/21/16 18:50 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.5 | 50 mL | 50 mL | 134314 | 10/25/16 15:01 | AMAO | TAL SAC |

Client Sample ID: PSV7-10
Date Collected: 10/20/16 05:45
Date Received: 10/20/16 18:23

Lab Sample ID: 320-22882-4
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 | | 1.77 | 214 mL | 250 mL | 133804 | 10/21/16 19:42 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.52 | 50 mL | 50 mL | 134314 | 10/25/16 15:08 | AMAO | TAL SAC |

Client Sample ID: PSV8-5
Date Collected: 10/20/16 06:18
Date Received: 10/20/16 18:23

Lab Sample ID: 320-22882-5
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 | | 5.49 | 76 mL | 250 mL | 133804 | 10/21/16 20:32 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.67 | 50 mL | 50 mL | 134314 | 10/25/16 15:15 | AMAO | TAL SAC |

Client Sample ID: PSV8-10
Date Collected: 10/20/16 06:18
Date Received: 10/20/16 18:23

Lab Sample ID: 320-22882-6
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 | | 2.8 | 179 mL | 250 mL | 133804 | 10/21/16 21:23 | AP1 | TAL SAC |

TestAmerica Sacramento

Lab Chronicle

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

TestAmerica Job ID: 320-22882-1

Client Sample ID: PSV8-10

Lab Sample ID: 320-22882-6

Date Collected: 10/20/16 06:18

Matrix: Air

Date Received: 10/20/16 18:23

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | D1946 | | 2 | 50 mL | 50 mL | 134314 | 10/25/16 15:31 | AMAO | TAL SAC |

Client Sample ID: PSV9-5

Lab Sample ID: 320-22882-7

Date Collected: 10/20/16 06:56

Matrix: Air

Date Received: 10/20/16 18:23

| 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 | | 6.21 | 76 mL | 250 mL | 133804 | 10/21/16 22:13 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.89 | 50 mL | 50 mL | 134314 | 10/25/16 16:03 | AMAO | TAL SAC |

Client Sample ID: PSV9-9

Lab Sample ID: 320-22882-8

Date Collected: 10/20/16 06:56

Matrix: Air

Date Received: 10/20/16 18:23

| 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 | | 2.99 | 163 mL | 250 mL | 133804 | 10/21/16 23:04 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.95 | 50 mL | 50 mL | 134314 | 10/25/16 16:13 | AMAO | TAL SAC |

Client Sample ID: PSV10-5

Lab Sample ID: 320-22882-9

Date Collected: 10/20/16 07:15

Matrix: Air

Date Received: 10/20/16 18:23

| 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 | | 6.31 | 65 mL | 250 mL | 133804 | 10/21/16 23:54 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.64 | 50 mL | 50 mL | 134314 | 10/25/16 16:19 | AMAO | TAL SAC |

Client Sample ID: PSV10-10

Lab Sample ID: 320-22882-10

Date Collected: 10/20/16 07:15

Matrix: Air

Date Received: 10/20/16 18:23

| 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 | | 19.34 | 25 mL | 250 mL | 133804 | 10/22/16 00:44 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.93 | 50 mL | 50 mL | 134314 | 10/25/16 16:40 | AMAO | TAL SAC |

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 320-22882-1

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | 4040 | 01-29-17 |

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Method Summary

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

TestAmerica Job ID: 320-22882-1

| Method | Method Description | Protocol | Laboratory |
|--------|---|----------|------------|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | TAL SAC |
| D1946 | Fixed Gases in Air (GC) | ASTM | TAL SAC |

Protocol References:

ASTM = ASTM International

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: 320-22882-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 320-22882-1 | PSV6-5 | Air | 10/20/16 05:06 | 10/20/16 18:23 |
| 320-22882-2 | PSV6-10 | Air | 10/20/16 05:06 | 10/20/16 18:23 |
| 320-22882-3 | PSV7-5 | Air | 10/20/16 05:45 | 10/20/16 18:23 |
| 320-22882-4 | PSV7-10 | Air | 10/20/16 05:45 | 10/20/16 18:23 |
| 320-22882-5 | PSV8-5 | Air | 10/20/16 06:18 | 10/20/16 18:23 |
| 320-22882-6 | PSV8-10 | Air | 10/20/16 06:18 | 10/20/16 18:23 |
| 320-22882-7 | PSV9-5 | Air | 10/20/16 06:56 | 10/20/16 18:23 |
| 320-22882-8 | PSV9-9 | Air | 10/20/16 06:56 | 10/20/16 18:23 |
| 320-22882-9 | PSV10-5 | Air | 10/20/16 07:15 | 10/20/16 18:23 |
| 320-22882-10 | PSV10-10 | Air | 10/20/16 07:15 | 10/20/16 18:23 |





PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

Boulevard, Suite 200
Alhambra 94945
FAX (415) 899-1601



320-22882 Chain of Custody

LABORATORY: Test America
JOB NUMBER: 1448.001.01.041
NAME/LOCATION: Off site Investigation 6601-6603 Shellmound Rd/Emeryville, CA
PROJECT MANAGER: C. Baldassarri/K. Flory

SAMPLERS: J. Phillips, C. Pollio
RECORDER: J. Phillips

QUESTED

| | | | |
|----------------------------|---|-------------------------|---|
| EPA 5035/8010 | X | VOCs (TO-15) | X |
| EPA 5035/8021 | X | Helium (D1946) | X |
| EPA 5035/8260B | X | Oxygen (D1946) | X |
| TPHg by 5035/8015M | X | CO ₂ (D1946) | X |
| TPHd by 8015M | | | |
| TPHm by 8015M | | | |
| EPA 8270C | | | |
| MNA Parameters (see notes) | | | |

| MATRIX | # of Containers & Preservatives | | | | | | DEPTH IN FEET |
|---------|---------------------------------|--------|--------------------------------|-----|-----------|------------|---------------|
| | Unpres. | EnCore | H ₂ SO ₄ | HCl | Seal Vial | Final Vial | |
| Vapor | X | | | | | | Can ID |
| Water | X | | | | | | 4864 |
| Soil | X | | | | | | 0675 |
| Sedim't | X | | | | | | 0642 |
| | X | | | | | | 0644 |
| | X | | | | | | 0740 |
| | X | | | | | | 1671 |
| | X | | | | | | 1011 |
| | X | | | | | | 0758 |
| | X | | | | | | 0982 |
| | X | | | | | | 0677 |

RUSH

| NOTES | | CHAIN OF CUSTODY RECORD | |
|---|--|---|---|
| Turn Around Time: <u>RUSH 48-hour TAT</u> | | RELINQUISHED BY: (Signature) <u>[Signature]</u> | RECEIVED BY: (Signature) <u>[Signature]</u> |
| | | RELINQUISHED BY: (Signature) <u>[Signature]</u> | RECEIVED BY: (Signature) <u>[Signature]</u> |
| | | RELINQUISHED BY: (Signature) <u>[Signature]</u> | RECEIVED BY: (Signature) <u>[Signature]</u> |
| | | RELINQUISHED BY: (Signature) <u>[Signature]</u> | RECEIVED BY: (Signature) <u>[Signature]</u> |
| | | DISPATCHED BY: (Signature) | RECEIVED FOR LAB BY: (Signature) |
| | | METHOD OF SHIPMENT: <u>picked up by lab courier</u> | |
| | | DATE | DATE |
| | | TIME | TIME |
| | | DATE | DATE |
| | | TIME | TIME |
| | | DATE | DATE |
| | | TIME | TIME |

WHITE-Laboratory COPY YELLOW-Project Office Copy PINK-Field or Office Copy

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JOB # **320-22882**
 Sample # **1**

| | | | |
|--------------------|------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 4864 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 13.11 | 10/21/16 | srs | |
| FINAL PRESSURE (PSIA) | 21.54 | 10/21/16 | srs | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.64 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.64 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------|--------|--------|---|-------------------|--------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 1.64 X | 10/21/2016 | ATMS9 | | = | FINAL DF | 4.234589162 |
| | | | | | Bag DF = 1 | |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |
| Canister DF = 1.64 X | | | | = | FINAL DF | #DIV/0! |
| | | | | | Bag DF = 1 | |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |
| Canister DF = 1.64 X | | | | = | FINAL DF | #DIV/0! |
| | | | | | Bag DF = 1 | |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |



JOB # 320-22882
 Sample # 3

| | | | |
|--------------------|------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 8442 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 13.30 | 10/21/16 | srs | |
| FINAL PRESSURE (PSIA) | 20.00 | 10/21/16 | srs | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.50 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.50 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | | | | |
|--|------|--------|--------|---|--|---|--|---|--|
| | Date | Instr. | File # | | | | | | |
| Canister DF = 1.50 | | | | X | Load DF = 2.173913 | X | Bag DF = 1 | = | FINAL DF 3.269042171 |
| | | | | | LVf (mLs) 250 | | BVf (mLs) | | |
| | | | | | LVi (mLs) 115 | | BVi (mLs) | | |
| Canister DF = 1.50 | | | | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | | | | LVf (mLs) | | BVf (mLs) | | |
| | | | | | LVi (mLs) | | BVi (mLs) | | |
| Canister DF = 1.50 | | | | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | | | | LVf (mLs) | | BVf (mLs) | | |
| | | | | | LVi (mLs) | | BVi (mLs) | | |



JOB # 320-22882
 Sample # 4

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000644 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 13.18 | 10/21/16 | srs | |
| FINAL PRESSURE (PSIA) | 20.00 | 10/21/16 | srs | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.52 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.52 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|--|------------|--------|--------|---|--|---|
| | Date | Instr. | File # | | | |
| Canister DF = 1.52 X | 10/21/2016 | ATMS9 | | Load DF = 1.1682243 X | Bag DF = 1 = | FINAL DF 1.77212276 |
| | | | | 250 | BVf (mLs) | |
| | | | | 214 | Bvi (mLs) | |
| Canister DF = 1.52 X | | | | Load DF = #DIV/0! X | Bag DF = 1 = | FINAL DF #DIV/0! |
| | | | | LVf (mLs) | BVf (mLs) | |
| | | | | LVi (mLs) | Bvi (mLs) | |
| Canister DF = 1.52 X | | | | Load DF = #DIV/0! X | Bag DF = 1 = | FINAL DF #DIV/0! |
| | | | | LVf (mLs) | BVf (mLs) | |
| | | | | LVi (mLs) | Bvi (mLs) | |



JOB # 320-22882
 Sample # 9

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000982 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.19 | 10/21/16 | srs | |
| FINAL PRESSURE (PSIA) | 20.00 | 10/21/16 | srs | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.64 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.64 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|--|------|---|--------|--|---|--|
| | Date | Instr. | File # | | | |
| Canister DF = 1.64 | X | Load DF = 3.8461538 | X | Bag DF = 1 | = | FINAL DF 6.310342652 |
| | | 250 | | BVf (mLs) | | |
| | | 65 | | Bvi (mLs) | | |
| Canister DF = 1.64 | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | LVf (mLs) | | BVf (mLs) | | |
| | | LVi (mLs) | | Bvi (mLs) | | |
| Canister DF = 1.64 | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | LVf (mLs) | | BVf (mLs) | | |
| | | LVi (mLs) | | Bvi (mLs) | | |



JOB # **320-22882**
 Sample # **10**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000677 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|------------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.71 | 10/21/16 | srs for SV | |
| FINAL PRESSURE (PSIA) | 24.58 | 10/21/16 | srs for SV | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.93 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.93 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | | | | | |
|-----------------------------|------|---|-----------|-----------|---|-----------|---|---|----------|-------------|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Canister DF = | 1.93 | X | Load DF = | 10 | X | Bag DF = | 1 | = | FINAL DF | 19.33910307 |
| | | | | 250 | | BVf (mLs) | | | | |
| | | | | 25 | | BVi (mLs) | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Canister DF = | 1.93 | X | Load DF = | #DIV/0! | X | Bag DF = | 1 | = | FINAL DF | #DIV/0! |
| | | | | LVf (mLs) | | BVf (mLs) | | | | |
| | | | | LVi (mLs) | | BVi (mLs) | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Canister DF = | 1.93 | X | Load DF = | #DIV/0! | X | Bag DF = | 1 | = | FINAL DF | #DIV/0! |
| | | | | LVf (mLs) | | BVf (mLs) | | | | |
| | | | | LVi (mLs) | | BVi (mLs) | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |



Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 320-22882-1

Login Number: 22882
List Number: 1
Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

| Question | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |





Certification Type TO-15 SCAN Loc: 320
Date Cleaned/Batch ID 09/28/16 320-22176 **22176**
Date of QC 9/30/16, 10/3/16

| Canister ID | Filename | Canister ID | Filename |
|-------------|----------|-------------|----------|
| 34001025 | _____ | 34000982 | 16100318 |
| 34000642 | 16093025 | 34000231 | _____ |
| 34001187 | 16100306 | 34000758 | 16100321 |
| 34000913 | 16100307 | 34000643 | 16100322 |
| 34001671 | 16100308 | | |
| 8440 | 16100309 | | |
| 34001788 | _____ | | |
| 34000740 | 16100312 | | |
| 34001011 | 16100313 | | |
| 34002183 | _____ | | |
| 34000965 | 16100316 | | |
| 34000677 | 16100317 | | |

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.

NU for AP
1st level Reviewed By:
[Signature]
2nd level Reviewed By:

10/4/16
Date:
10/6/16
Date:





Certification Type TO15, SGCN
 Date Cleaned/Batch ID 10/05/16, 320-22410
 Date of QC 10/06/16
 Data File Number M59100621

CANISTER ID NUMBERS

| | | |
|-------------------|-----------------|-------|
| <u>34000773 *</u> | <u>34000644</u> | _____ |
| <u>34000675</u> | <u>34000602</u> | _____ |
| <u>34001220</u> | <u>34002002</u> | _____ |
| <u>34001622</u> | <u>34000992</u> | _____ |
| <u>34000628</u> | <u>34000744</u> | _____ |
| <u>34000616</u> | <u>34001006</u> | _____ |
| <u>34000238</u> | <u>34001185</u> | _____ |
| <u>34001967</u> | <u>34001076</u> | _____ |

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.

[Signature]
1st level Reviewed By:

10/10/16
Date:

[Signature]
2nd level Reviewed By:

10/10/16
Date:





Certification Type TO15, SOG21
 Date Cleaned/Batch ID 10/07/16, 320-22537
 Date of QC 10/11/16
 Data File Number 16101108

CANISTER ID NUMBERS

| | | |
|-----------------|-------------------|-------|
| <u>34000969</u> | <u>5943</u> | _____ |
| <u>34000939</u> | <u>34001090</u> | _____ |
| <u>8442</u> | <u>34001053 *</u> | _____ |
| <u>34000954</u> | <u>34001243</u> | _____ |
| <u>34001670</u> | <u>34001219</u> | _____ |
| <u>4864</u> | <u>34001089</u> | _____ |
| <u>5876</u> | <u>34000901</u> | _____ |
| <u>4857</u> | <u>34001949</u> | _____ |

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.

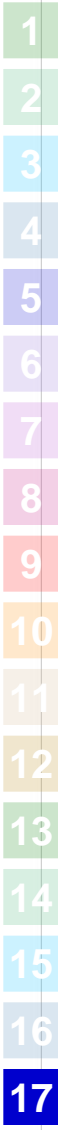
"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

DW for AP
1st level Reviewed By:

10/13/16
Date:

[Signature]
2nd level Reviewed By:

10/14/16
Date:



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000642 Lab Sample ID: 320-22176-2
 Matrix: Air Lab File ID: 16093025.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/01/2016 06:27
 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.: 130145 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|-----|------|-------|
| 67-64-1 | Acetone | 0.43 | 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 | 0.38 | J B | 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 | 0.43 | J | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000642 Lab Sample ID: 320-22176-2
 Matrix: Air Lab File ID: 16093025.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/01/2016 06:27
 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.: 130145 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 | 0.095 | J | 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 | 0.17 | J B | 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 | 0.050 |
| 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 | 0.37 | J B | 0.80 | 0.26 |
| 115-07-1 | Propylene | 0.14 | J B | 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 | 0.079 |
| 108-88-3 | Toluene | 0.36 | J B | 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000642 Lab Sample ID: 320-22176-2
 Matrix: Air Lab File ID: 16093025.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/01/2016 06:27
 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.: 130145 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 | 0.19 | J | 0.80 | 0.16 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.40 | 0.13 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.15 | J B | 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 | 0.38 | J B | 0.80 | 0.10 |
| 95-47-6 | o-Xylene | 0.16 | J B | 0.40 | 0.054 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 91 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D
 Lims ID: 320-22176-A-2
 Client ID: 34000642
 Sample Type: Client
 Inject. Date: 01-Oct-2016 06:27:30 ALS Bottle#: 4 Worklist Smp#: 25
 Purge Vol: 250.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-2
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS2
 Method: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\TO15_ATMS2N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 03-Oct-2016 13:37:56 Calib Date: 18-Sep-2016 03:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS2\20160917-34629.b\16091724.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: phanthasena

Date: 03-Oct-2016 13:37:56

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 11.455 | 11.455 | 0.000 | 96 | 37633 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 13.554 | 13.560 | -0.006 | 95 | 146788 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 19.607 | 19.613 | -0.006 | 88 | 135241 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 12.611 | 12.623 | -0.012 | 0 | 52248 | 3.90 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 16.778 | 16.791 | -0.013 | 98 | 89443 | 3.98 | |
| \$ 6 4-Bromofluorobenzene (Surr | 95 | 21.621 | 21.627 | -0.006 | 92 | 90364 | 3.64 | |
| 10 Propene | 41 | 3.912 | 3.906 | 0.006 | 82 | 969 | 0.1353 | |
| 18 Butane | 43 | 4.544 | 4.544 | 0.000 | 98 | 6575 | 0.3830 | |
| 27 Pentane | 43 | 6.181 | 6.175 | 0.006 | 94 | 6924 | 0.3720 | |
| 32 Acetone | 43 | 6.929 | 6.911 | 0.018 | 96 | 5340 | 0.4267 | |
| 39 Methylene Chloride | 49 | 8.121 | 8.134 | -0.013 | 34 | 631 | 0.0527 | |
| 40 Carbon disulfide | 76 | 8.176 | 8.176 | 0.000 | 99 | 12207 | 0.4286 | |
| 44 Hexane | 41 | 9.259 | 9.259 | -0.006 | 68 | 2046 | 0.1650 | |
| 56 Cyclohexane | 84 | 12.301 | 12.313 | -0.012 | 1 | 256 | 0.0182 | |
| 57 Isooctane | 57 | 12.629 | 12.630 | -0.001 | 96 | 8122 | 0.1520 | |
| 63 Benzene | 78 | 12.940 | 12.940 | 0.000 | 1 | 2155 | 0.0688 | |
| 64 n-Heptane | 43 | 13.146 | 13.147 | -0.001 | 77 | 1241 | 0.0619 | |
| 65 Trichloroethene | 130 | 14.290 | 14.296 | -0.006 | 94 | 1567 | 0.0981 | |
| 73 n-Octane | 43 | 16.870 | 16.876 | -0.006 | 75 | 864 | 0.0313 | |
| 74 Toluene | 91 | 16.937 | 16.943 | -0.006 | 94 | 13774 | 0.3583 | |
| 85 Ethylbenzene | 91 | 19.838 | 19.839 | -0.001 | 94 | 4274 | 0.0950 | |
| 86 m-Xylene & p-Xylene | 91 | 19.984 | 19.991 | -0.007 | 98 | 12993 | 0.3824 | |
| 87 o-Xylene | 91 | 20.702 | 20.709 | -0.007 | 97 | 5354 | 0.1564 | |
| 96 N-Propylbenzene | 91 | 21.937 | 21.937 | 0.000 | 95 | 2192 | 0.0383 | |
| 98 4-Ethyltoluene | 120 | 22.108 | 22.108 | 0.000 | 96 | 606 | 0.0416 | M |
| 100 1,3,5-Trimethylbenzene | 120 | 22.175 | 22.181 | -0.007 | 90 | 1089 | 0.0556 | |
| 106 1,2,4-Trimethylbenzene | 120 | 22.740 | 22.740 | 0.000 | 97 | 3890 | 0.1889 | |
| 125 Naphthalene | 128 | 26.378 | 26.378 | 0.000 | 97 | 5560 | 0.1701 | |

[QC Flag Legend](#)

Review Flags

M - Manually Integrated

[Reagents:](#)

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Operator ID: KY

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Worklist Smp#: 25

Client ID: 34000642

Purge Vol: 250.000 mL

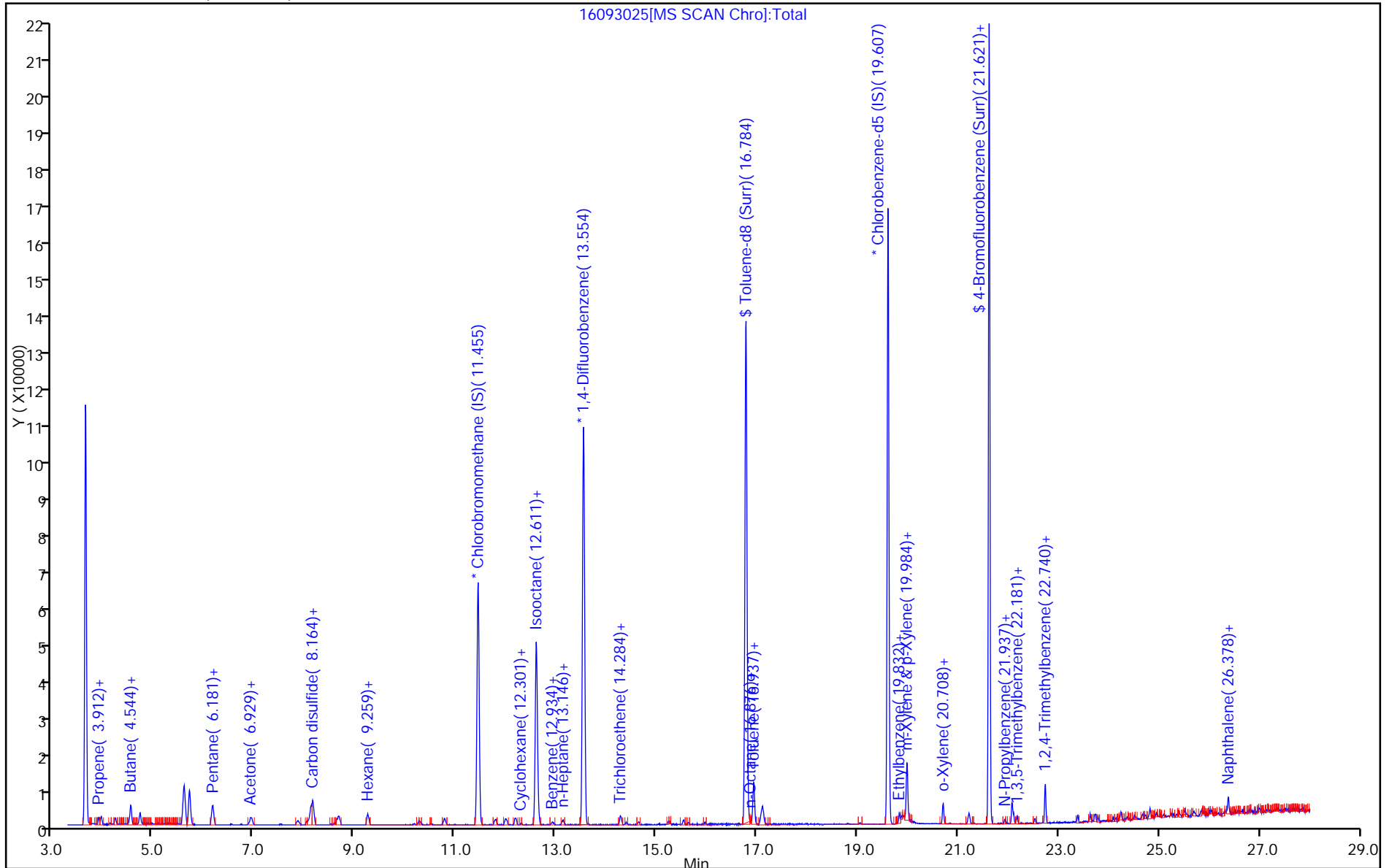
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

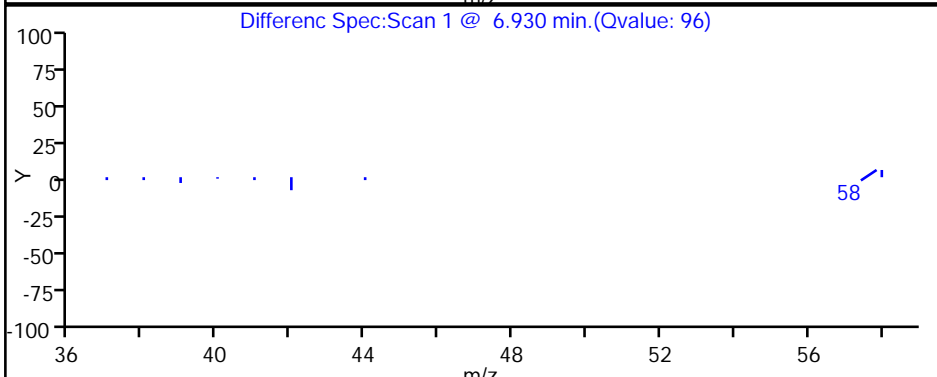
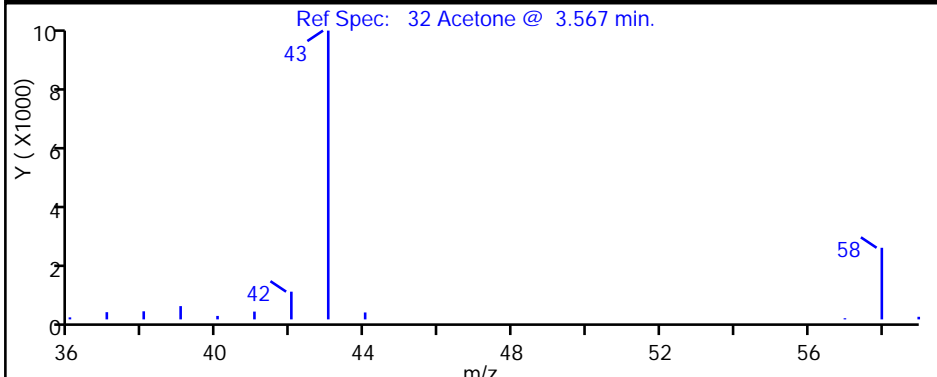
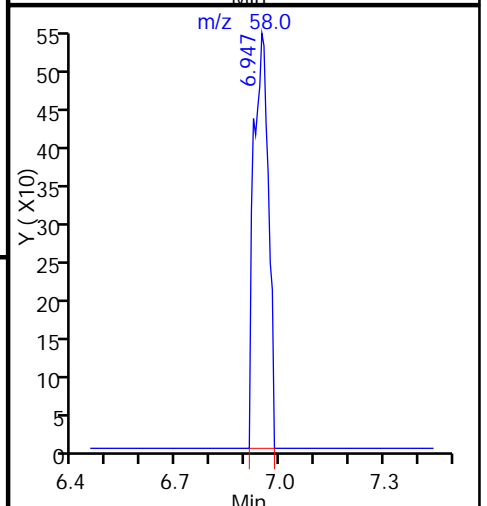
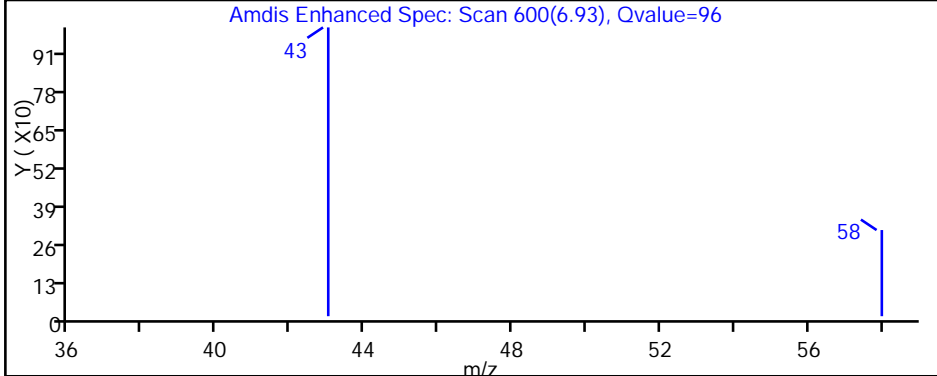
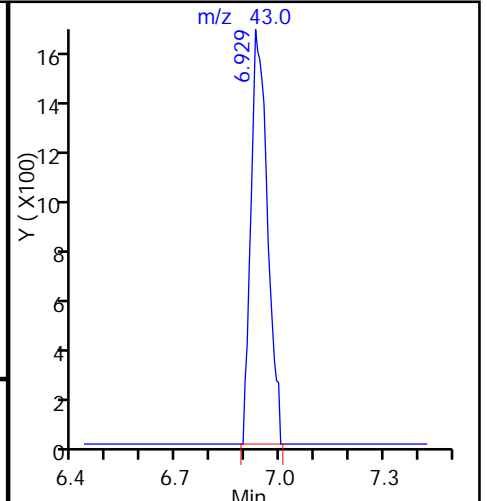
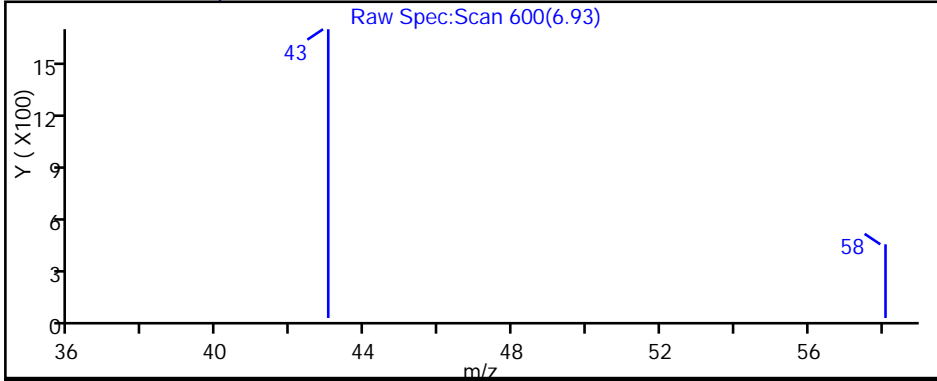
Method: TO15_ATMS2N

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\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

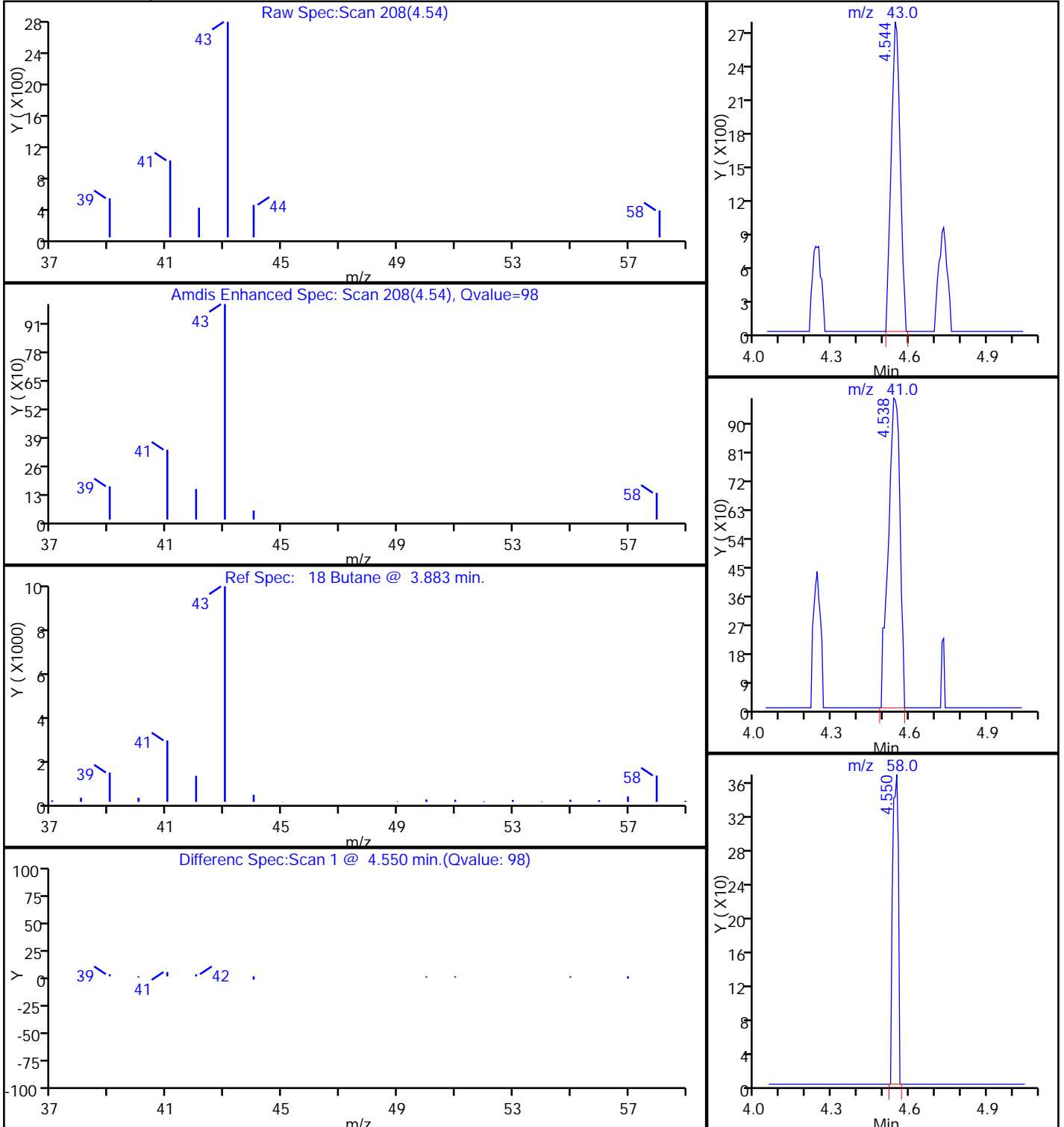
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

18 Butane, CAS: 106-97-8



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

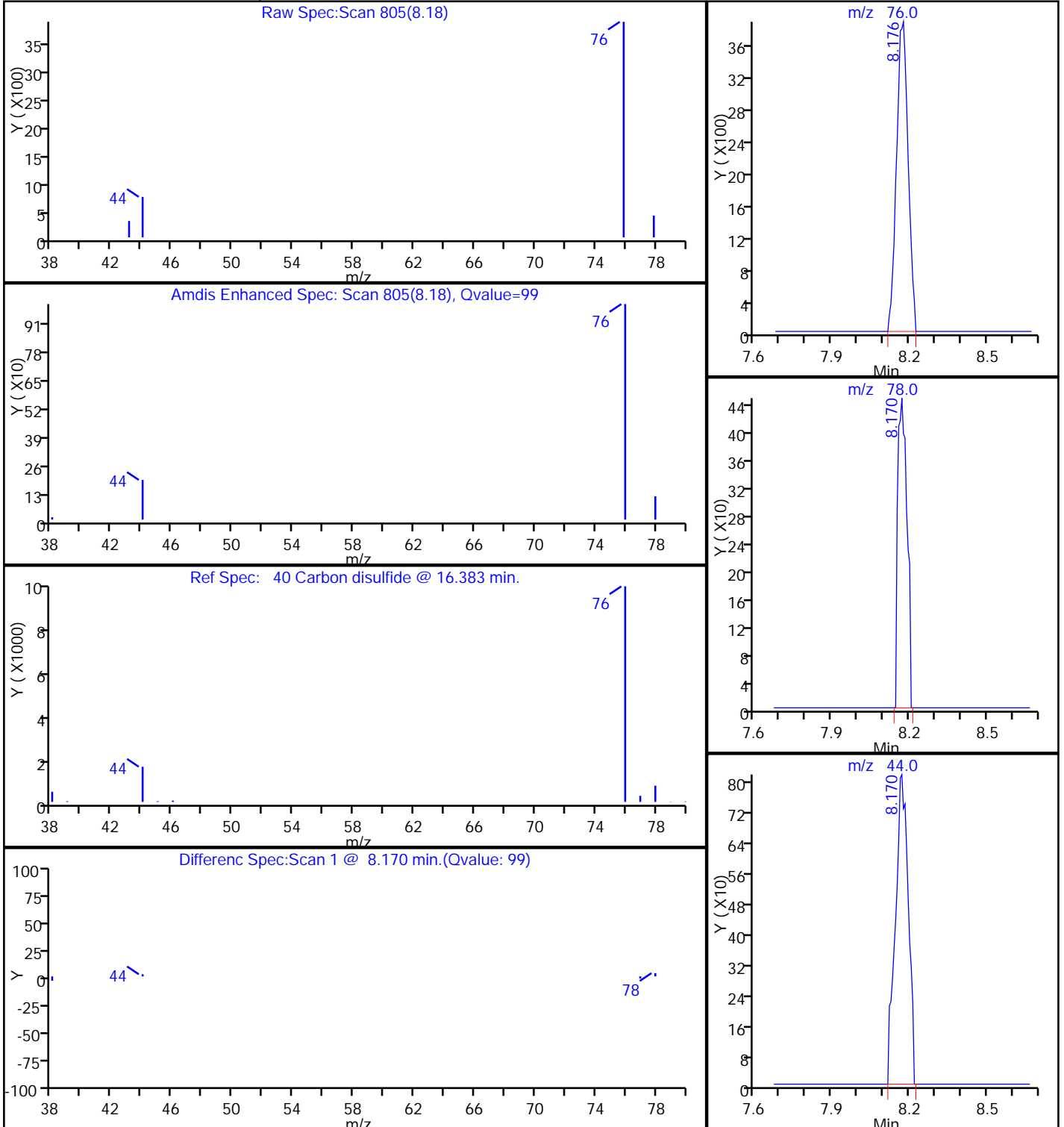
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

40 Carbon disulfide, CAS: 75-15-0



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

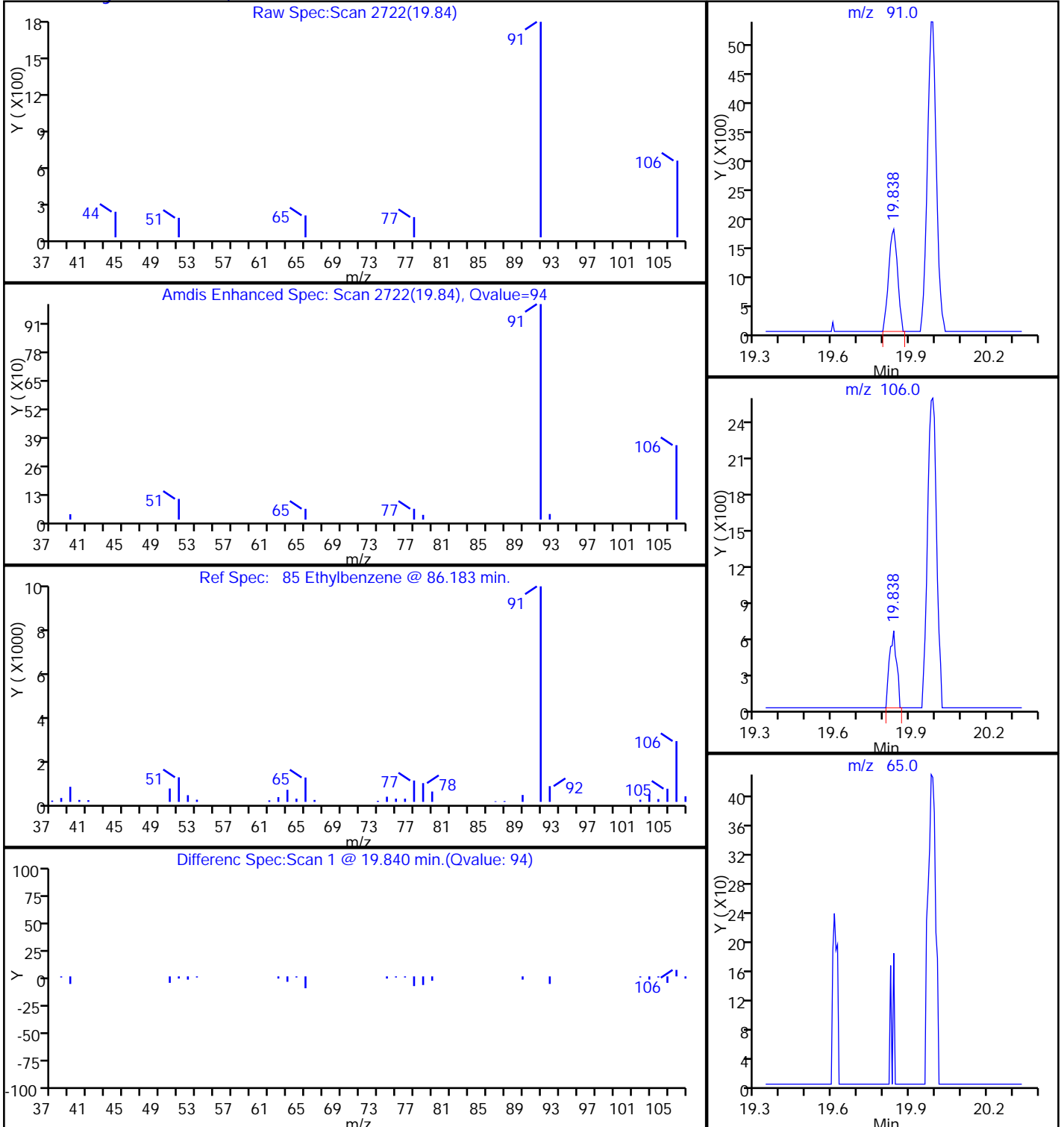
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

85 Ethylbenzene, CAS: 100-41-4



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

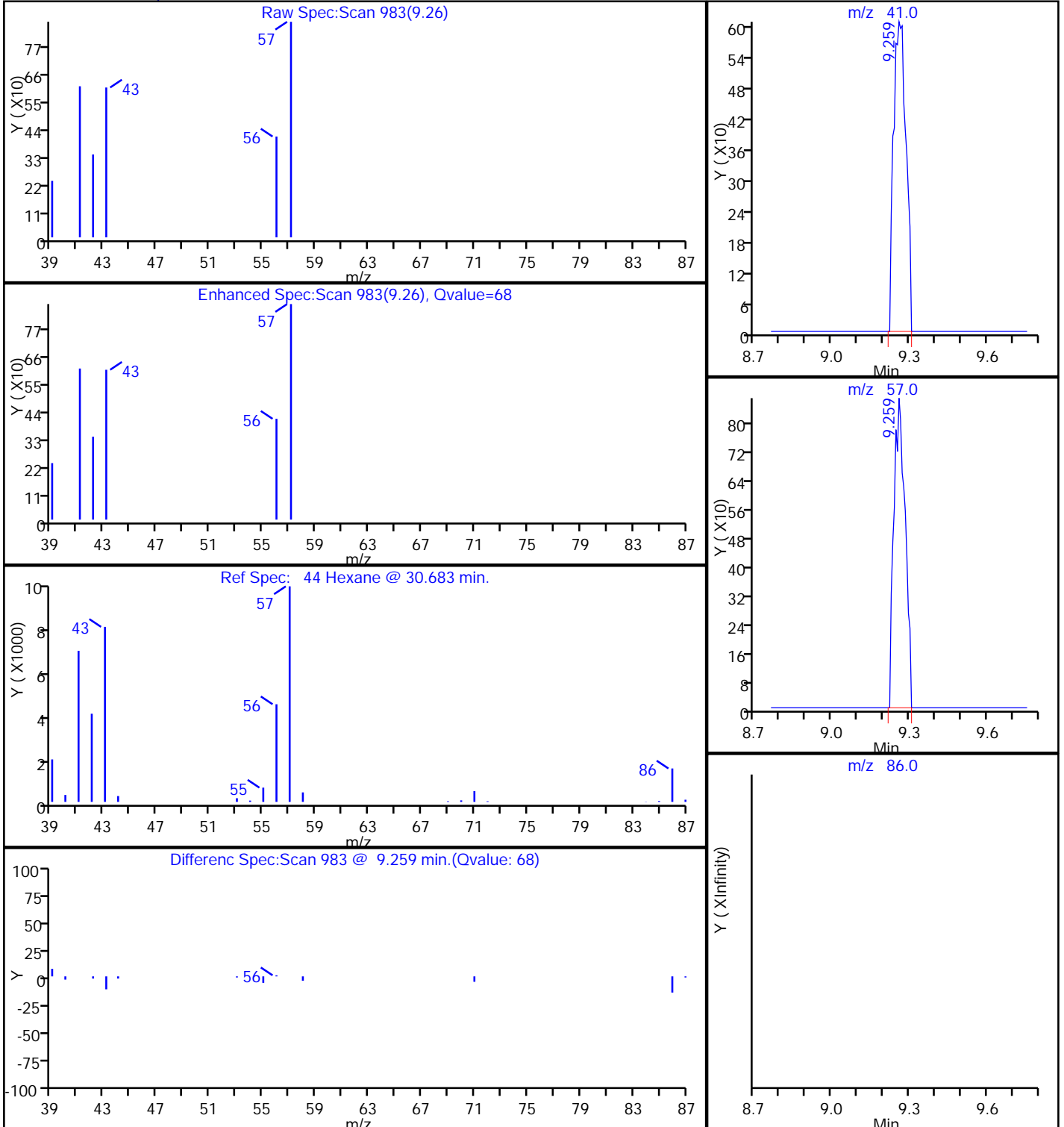
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

44 Hexane, CAS: 110-54-3



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

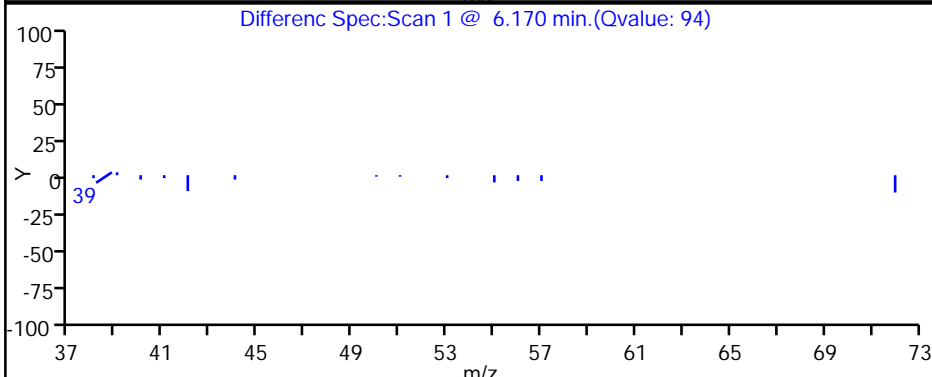
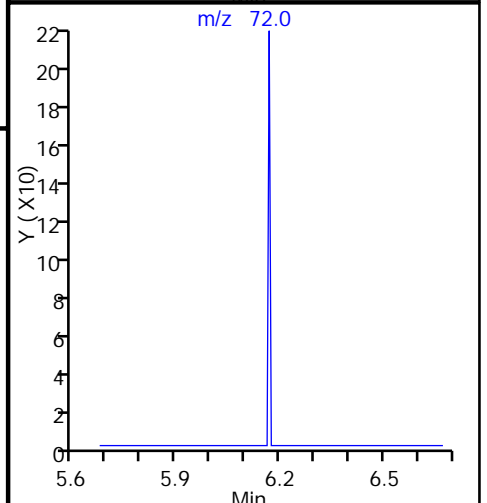
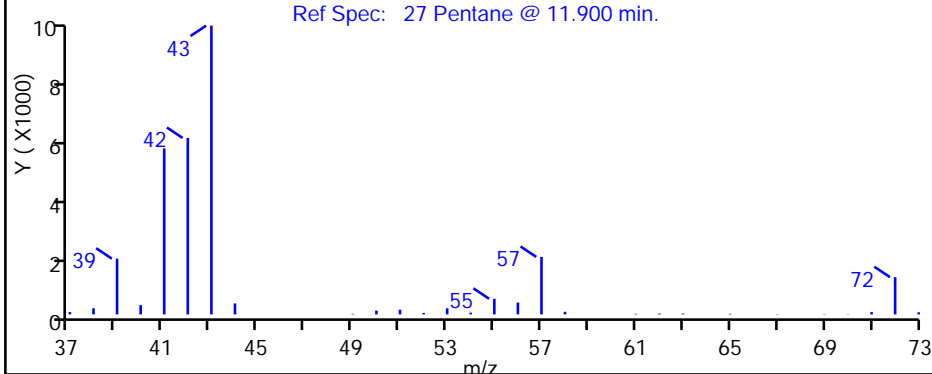
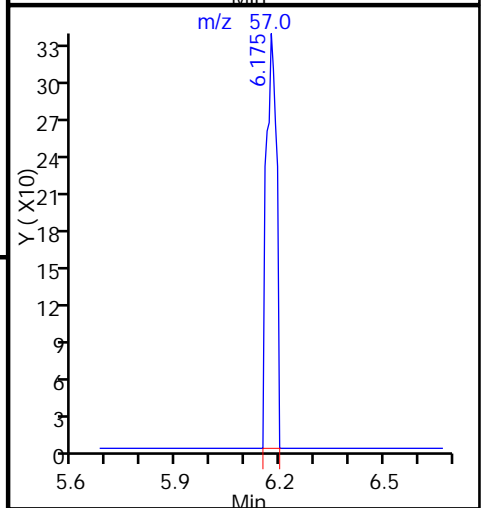
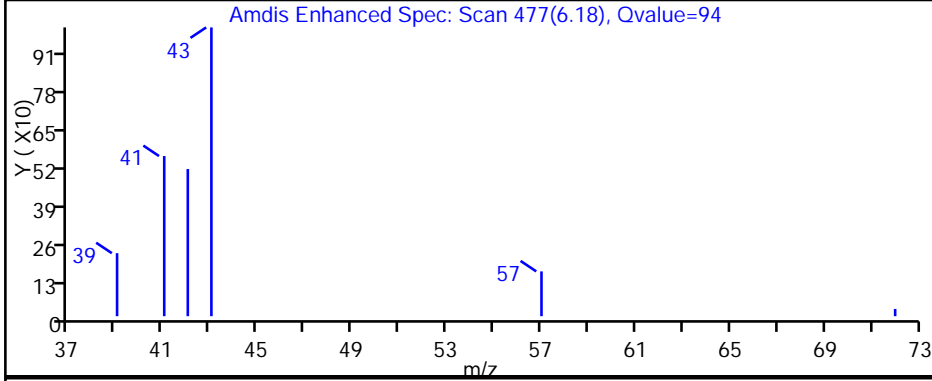
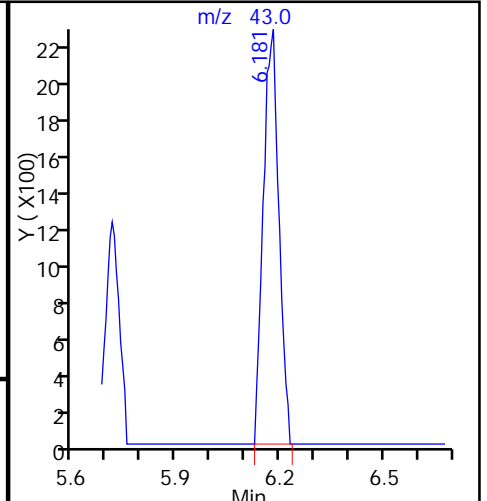
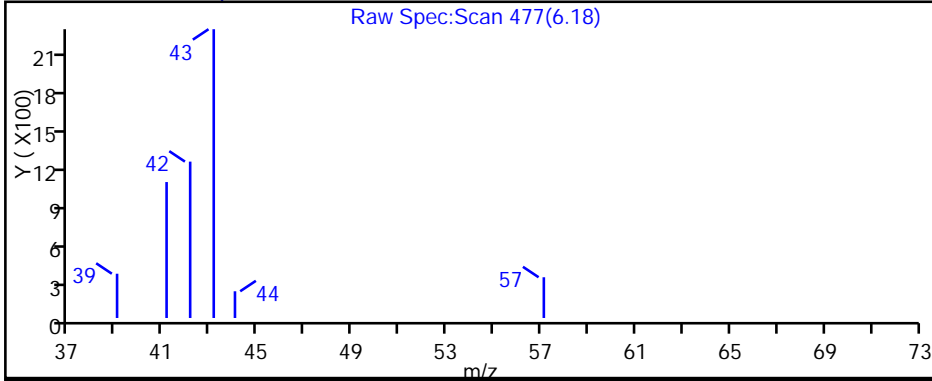
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

27 Pentane, CAS: 109-66-0



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

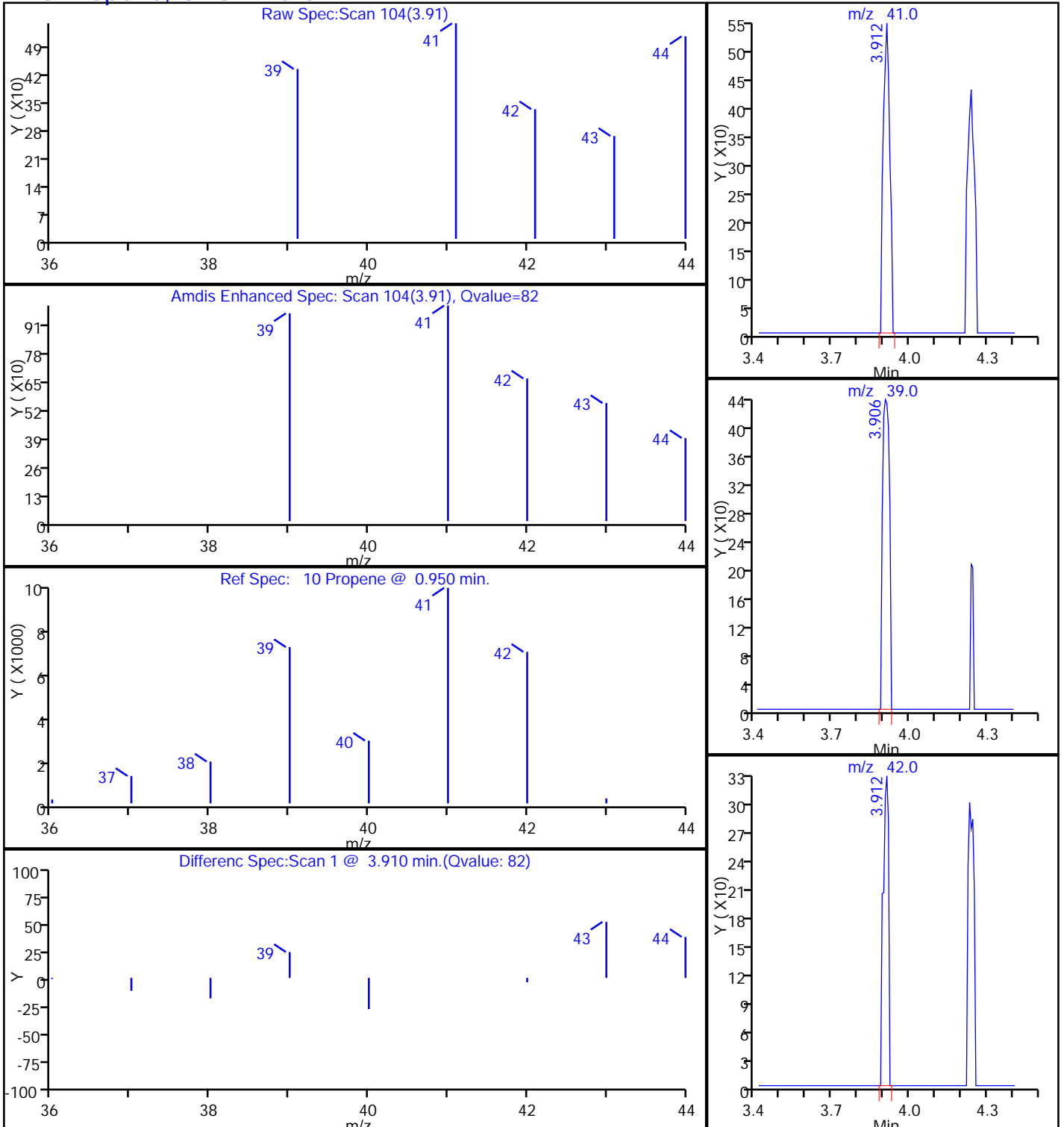
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

10 Propene, CAS: 115-07-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

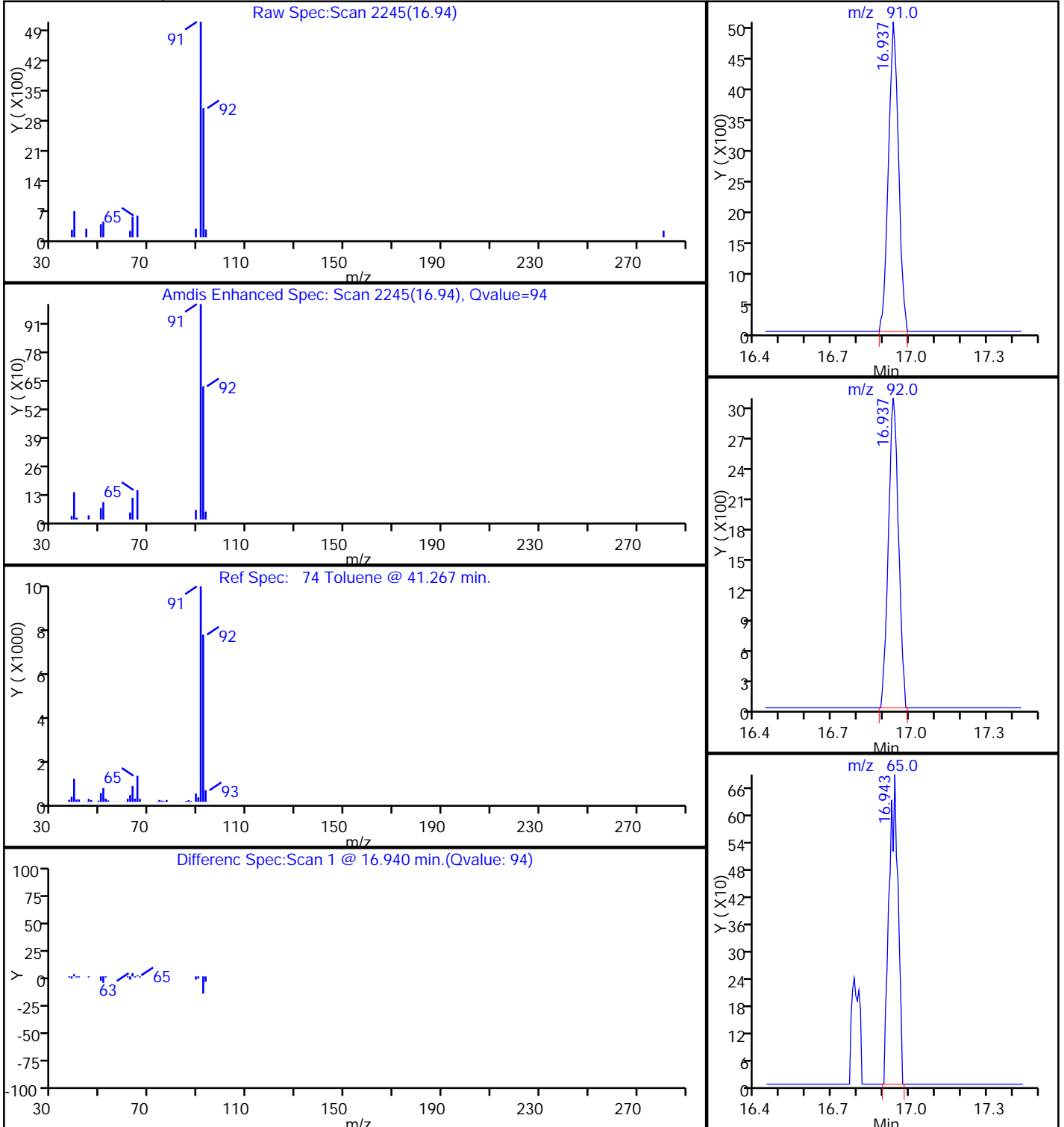
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

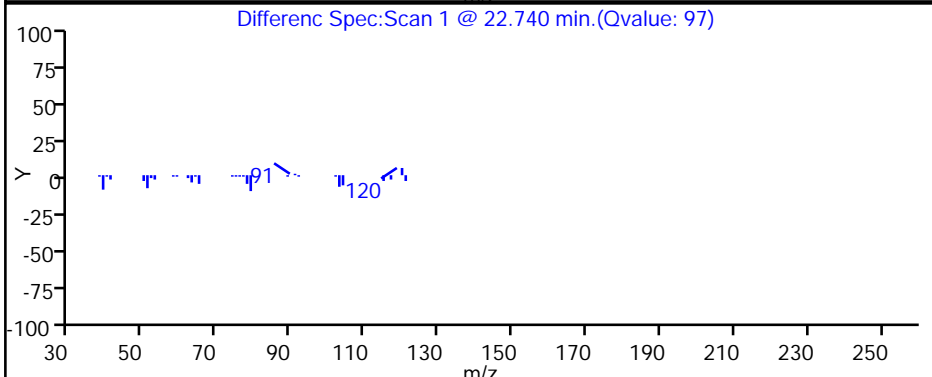
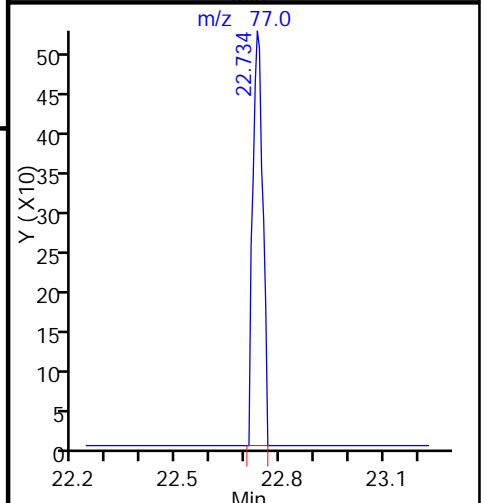
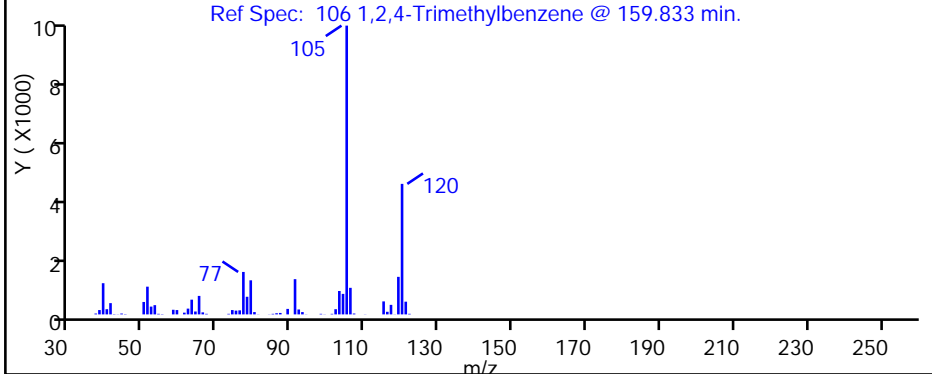
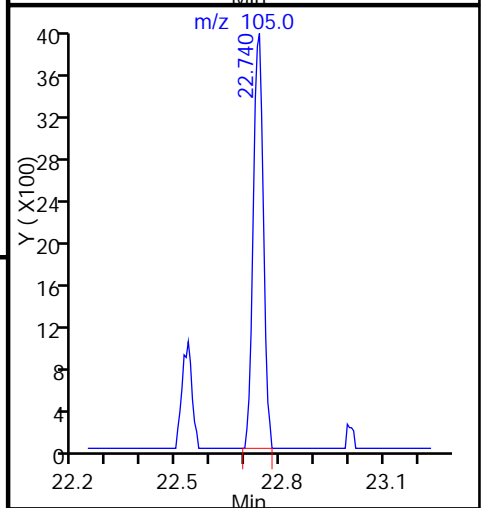
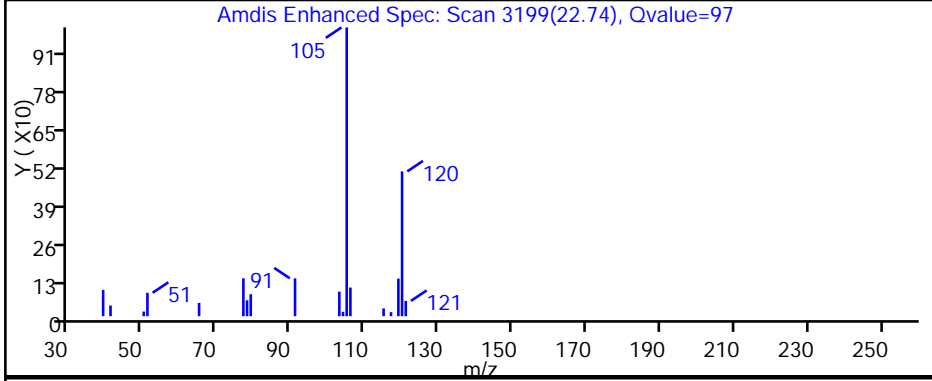
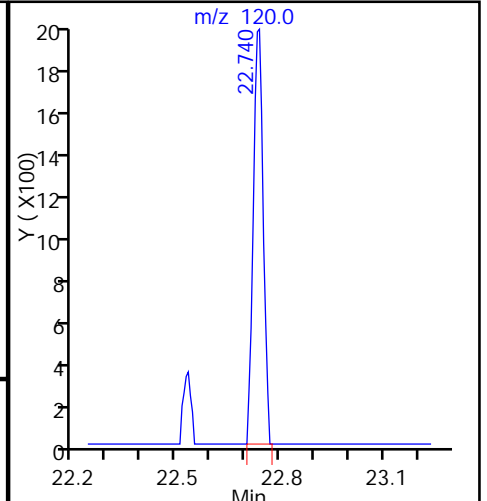
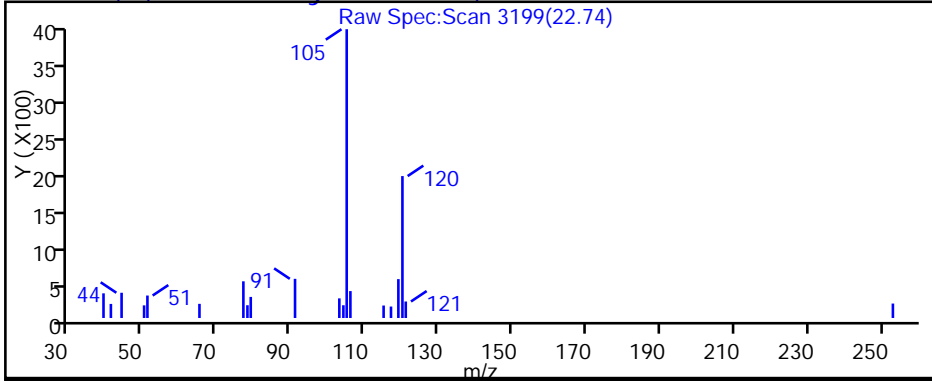
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

106 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

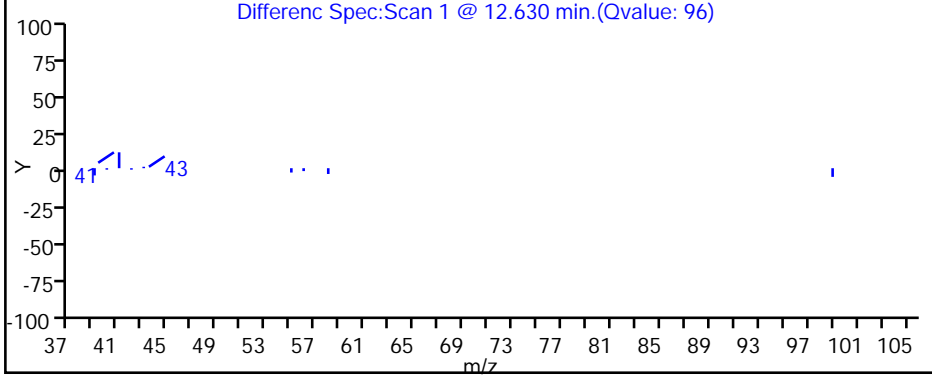
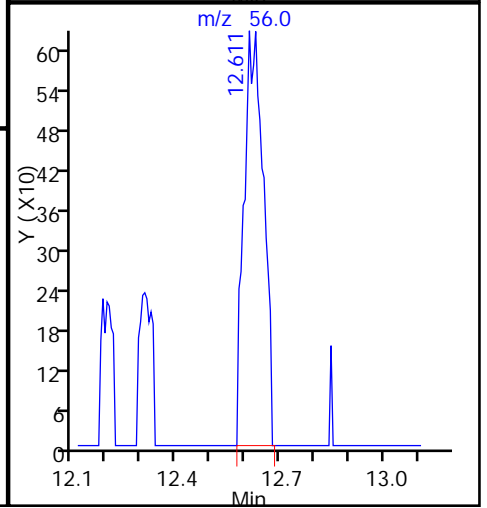
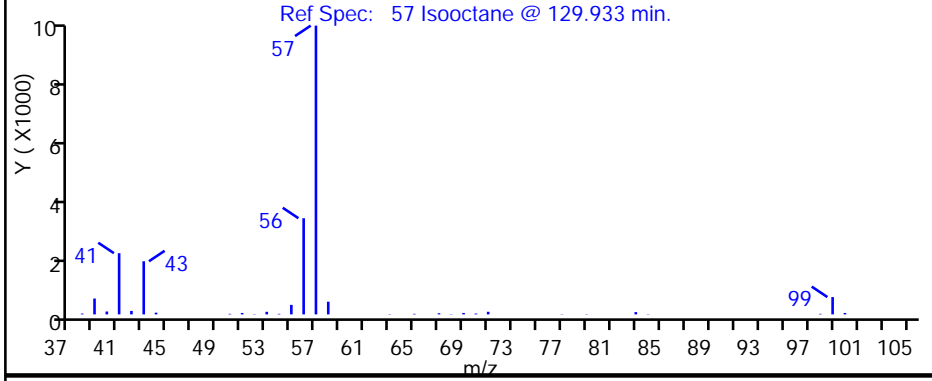
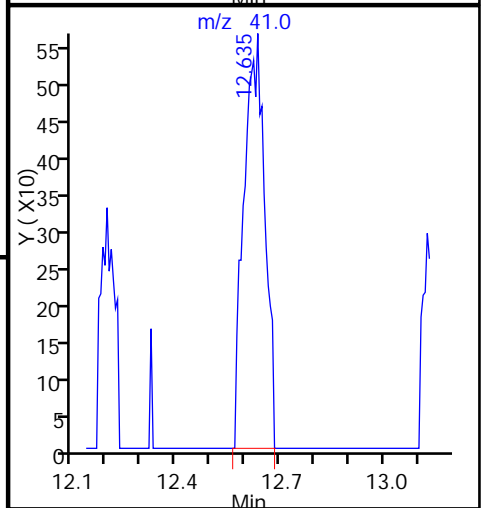
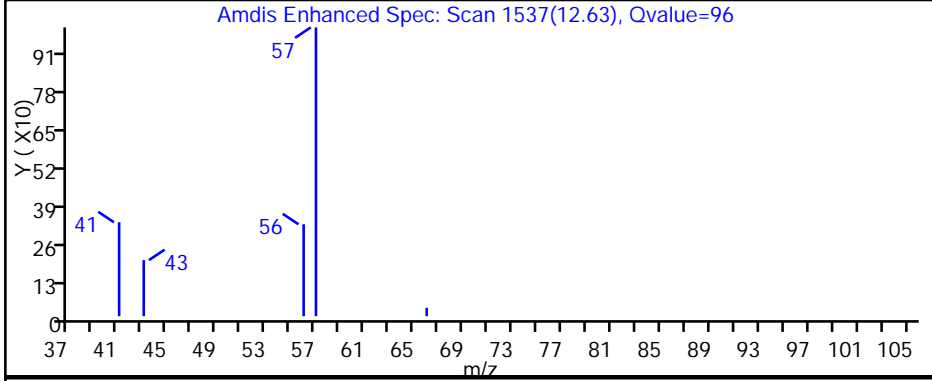
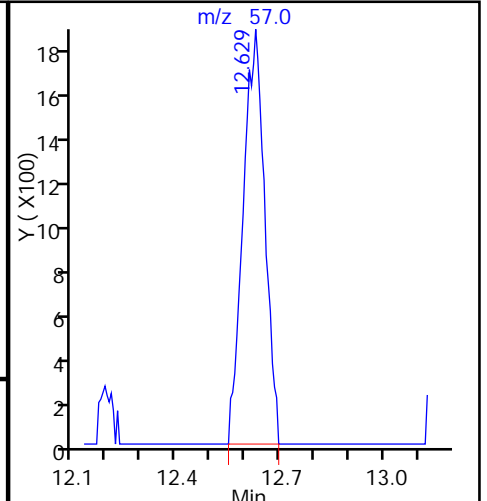
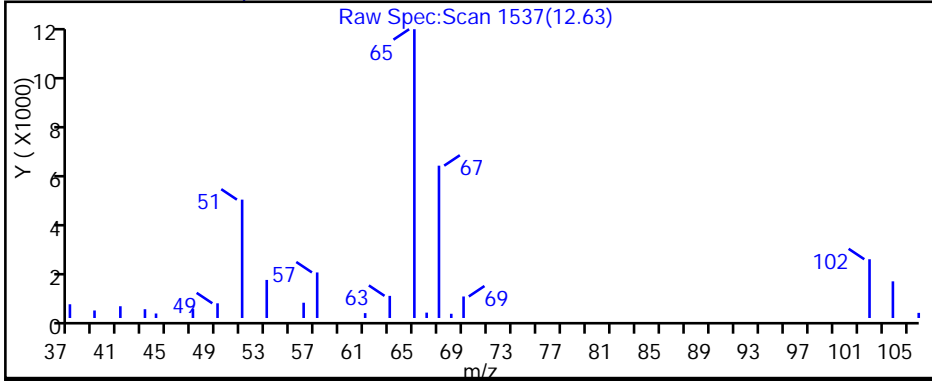
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

57 Isooctane, CAS: 540-84-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

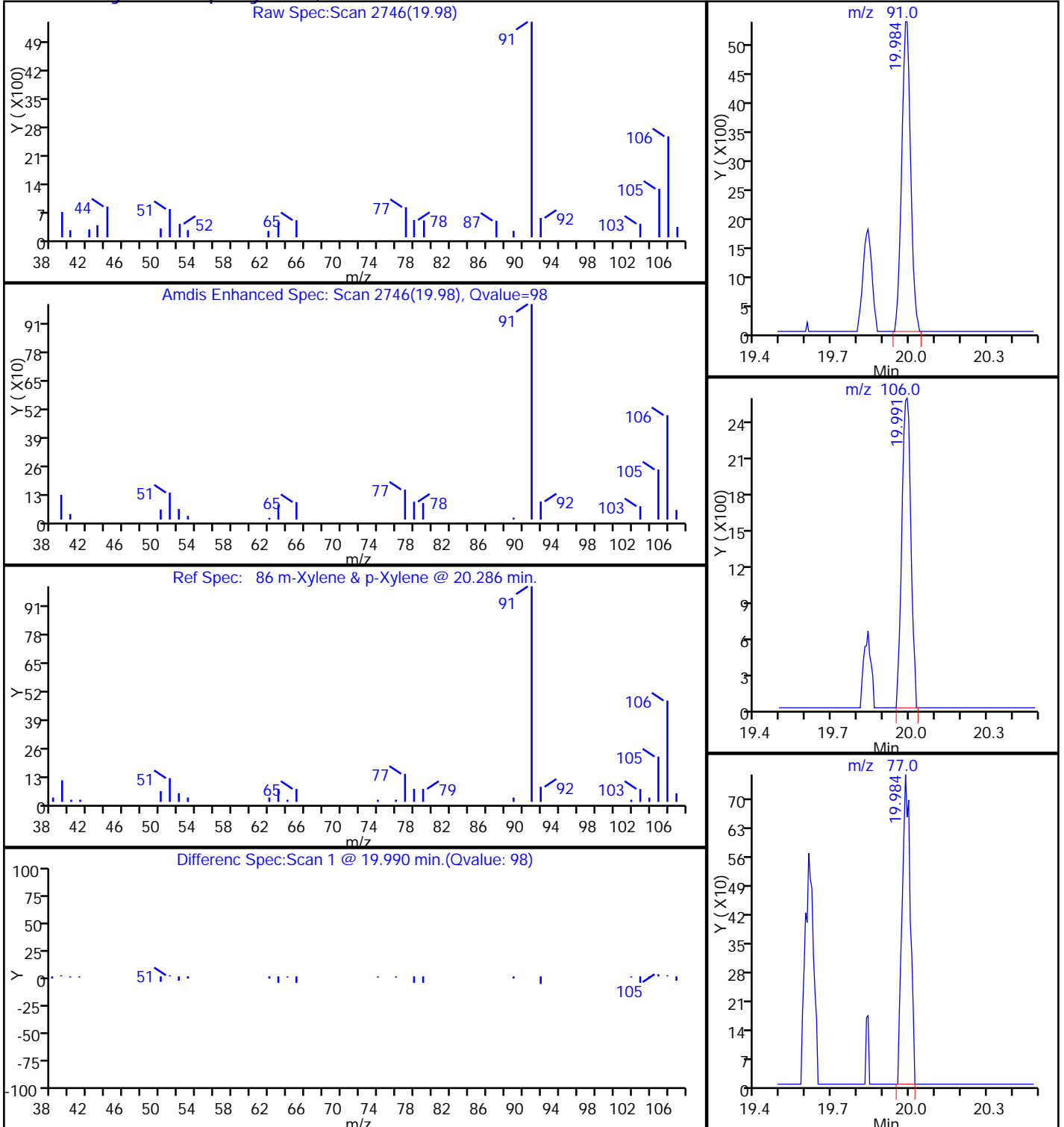
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

86 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

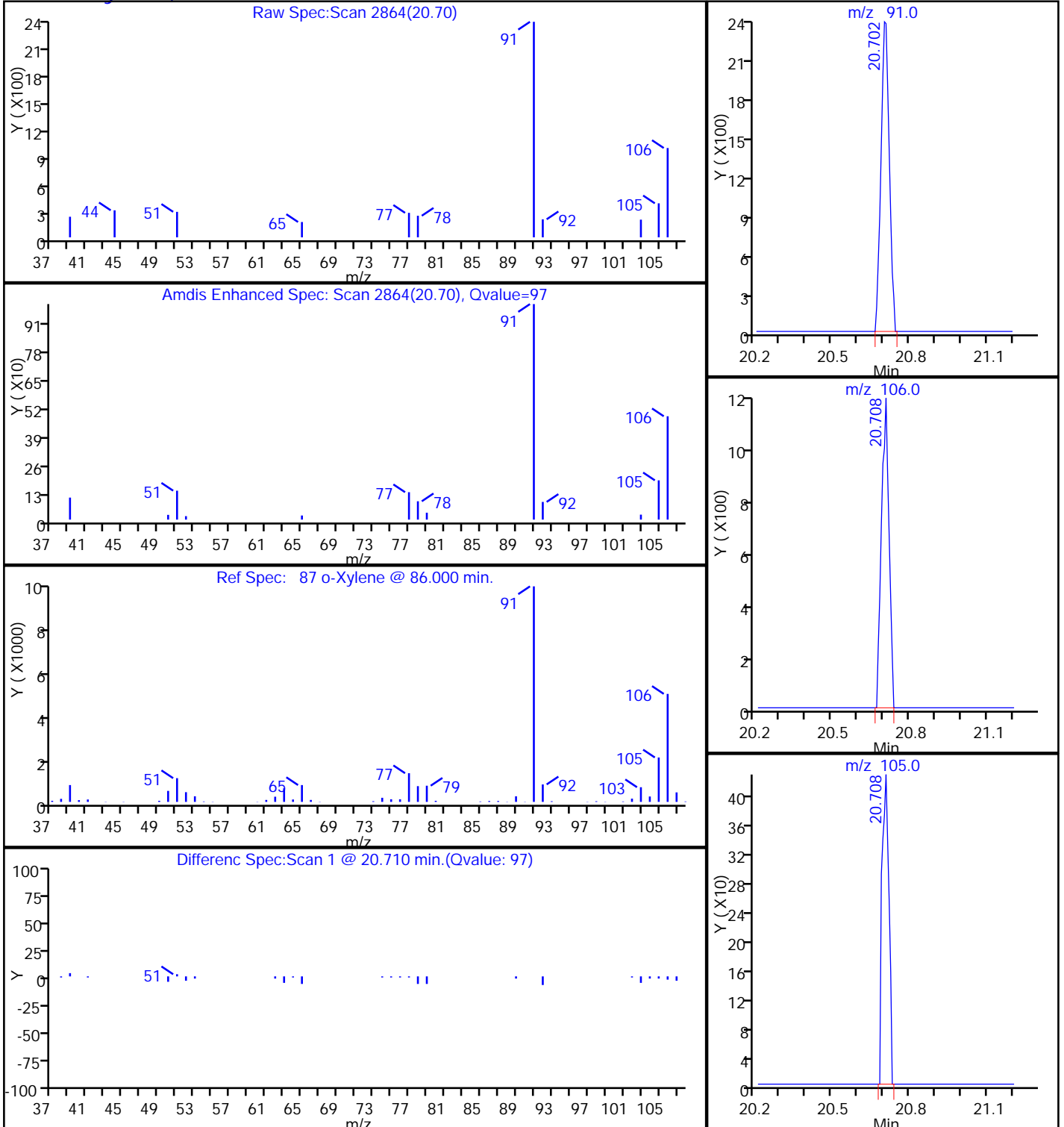
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

87 o-Xylene, CAS: 95-47-6



TestAmerica Sacramento

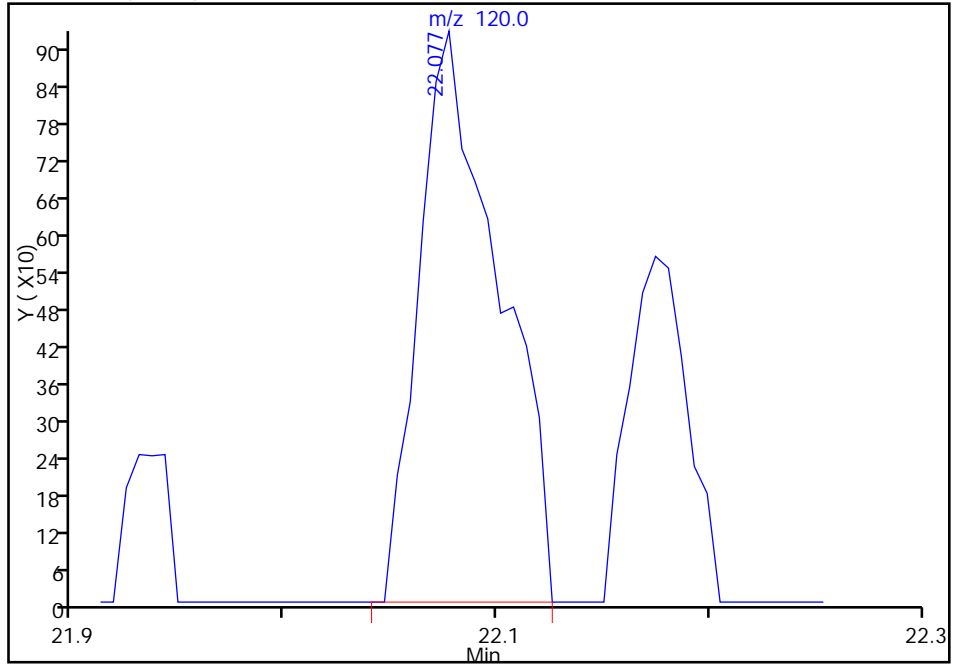
Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D
Injection Date: 01-Oct-2016 06:27:30 Instrument ID: ATMS2
Lims ID: 320-22176-A-2 Lab Sample ID: 320-22176-2
Client ID: 34000642
Operator ID: KY ALS Bottle#: 4 Worklist Smp#: 25
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector: MS SCAN

98 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

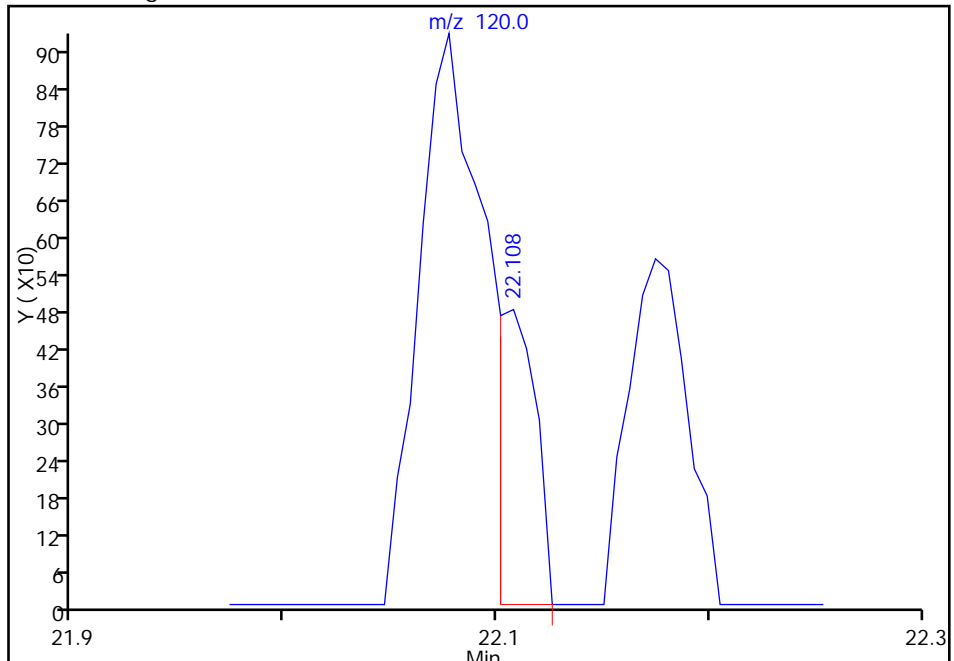
RT: 22.08
Area: 2414
Amount: 0.165872
Amount Units: ppb v/v

Processing Integration Results



RT: 22.11
Area: 606
Amount: 0.041640
Amount Units: ppb v/v

Manual Integration Results



Reviewer: phanthasena, 03-Oct-2016 13:37:56

Audit Action: Manually Integrated

Audit Reason: Split Peak



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001187 Lab Sample ID: 320-22176-3
 Matrix: Air Lab File ID: 16100306.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:03
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.41 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001187 Lab Sample ID: 320-22176-3
 Matrix: Air Lab File ID: 16100306.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:03
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001187 Lab Sample ID: 320-22176-3
 Matrix: Air Lab File ID: 16100306.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:03
 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.: 130498 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100306.D
 Lims ID: 320-22176-A-3
 Client ID: 34001187
 Sample Type: Client
 Inject. Date: 03-Oct-2016 18:03:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-3
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:17:58 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:21:47

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.439 | 12.438 | 0.001 | 93 | 37051 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.525 | 14.529 | -0.004 | 96 | 149911 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.436 | 20.441 | -0.005 | 89 | 128730 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.607 | 13.611 | -0.004 | 97 | 52888 | 4.01 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.687 | 17.686 | 0.001 | 98 | 90029 | 4.03 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.352 | 22.350 | 0.002 | 90 | 63941 | 3.68 | |
| 14 Propene | 41 | 4.266 | 4.258 | 0.008 | 25 | 977 | 0.0653 | |
| 31 Acetone | 43 | 7.714 | 7.706 | 0.008 | 96 | 6363 | 0.4110 | |
| 48 Carbon disulfide | 76 | 9.052 | 9.044 | 0.008 | 98 | 973 | 0.0362 | |
| 88 n-Octane | 43 | 17.687 | 17.692 | -0.005 | 42 | 1213 | 0.0285 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100306.D

Injection Date: 03-Oct-2016 18:03:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-3

Lab Sample ID: 320-22176-3

Worklist Smp#: 6

Client ID: 34001187

Purge Vol: 500.000 mL

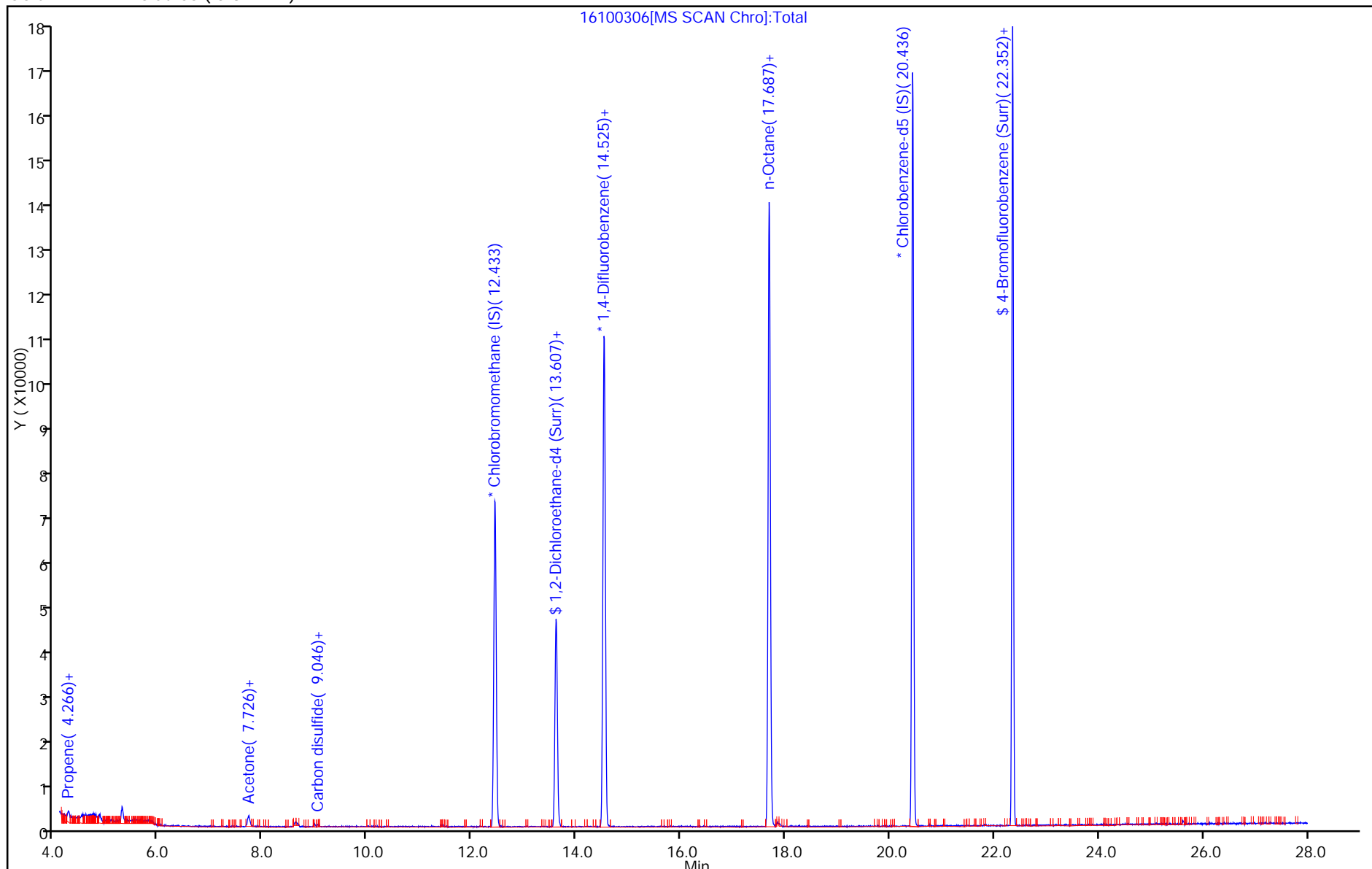
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100306.D

Injection Date: 03-Oct-2016 18:03:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-3

Lab Sample ID: 320-22176-3

Client ID: 34001187

Operator ID: KY

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

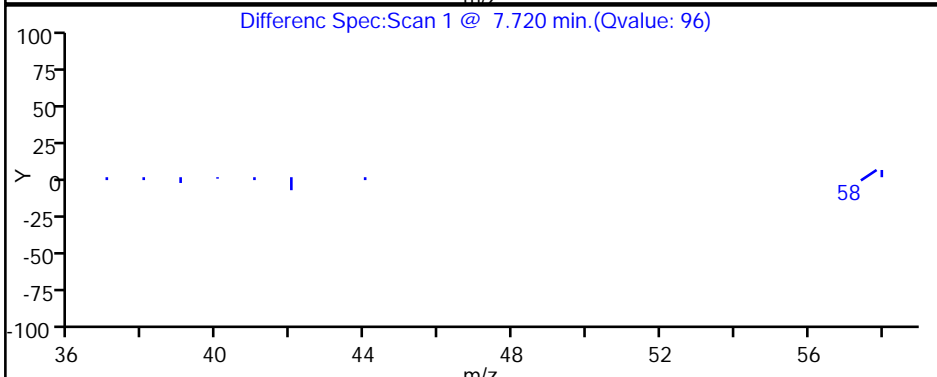
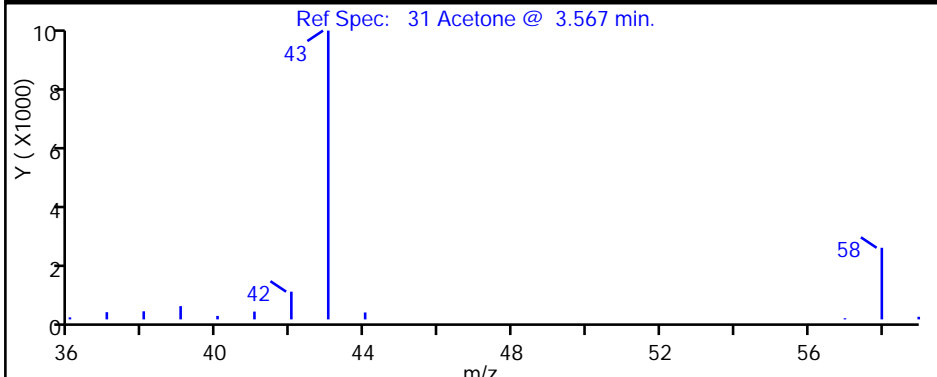
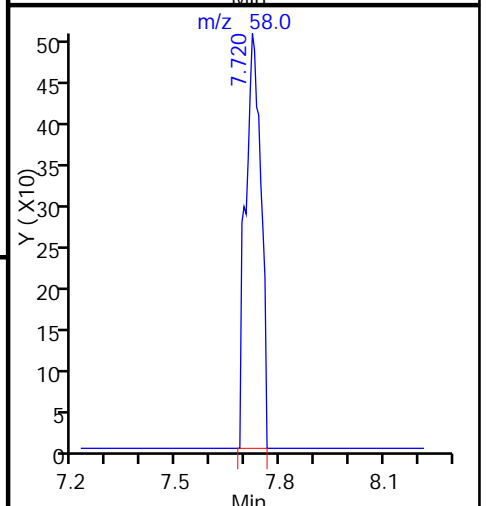
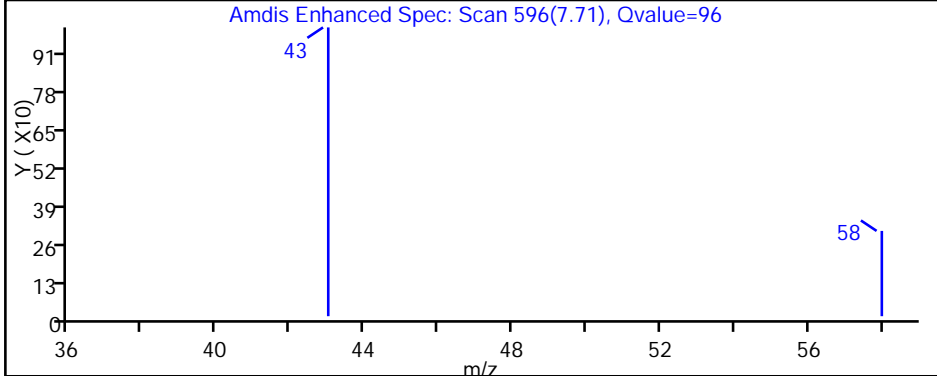
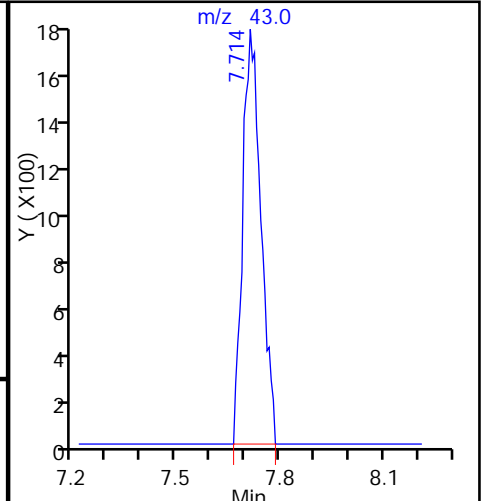
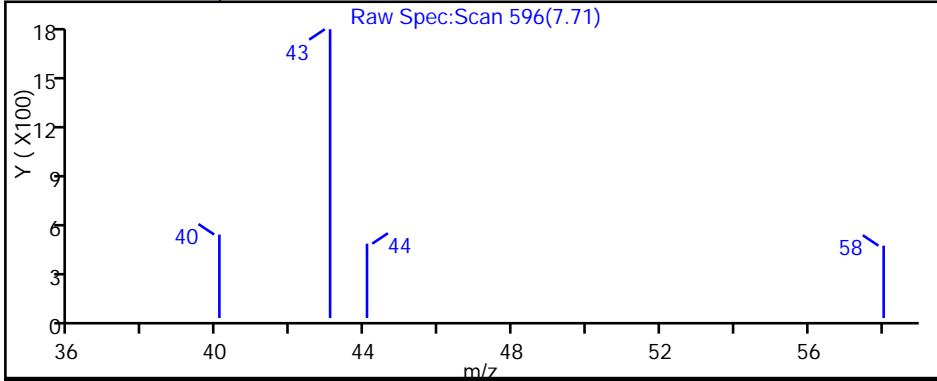
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000913 Lab Sample ID: 320-22176-4
 Matrix: Air Lab File ID: 16100307.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:52
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.38 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000913 Lab Sample ID: 320-22176-4
 Matrix: Air Lab File ID: 16100307.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:52
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000913 Lab Sample ID: 320-22176-4
 Matrix: Air Lab File ID: 16100307.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:52
 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.: 130498 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) | 98 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100307.D
 Lims ID: 320-22176-A-4
 Client ID: 34000913
 Sample Type: Client
 Inject. Date: 03-Oct-2016 18:52:30 ALS Bottle#: 2 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-4
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:22:44 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:22:44

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|--------------|------------------|------------------|----|----------|----------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.432 | 12.438 | -0.006 | 94 | 38309 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.524 | 14.529 | -0.005 | 96 | 153243 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.441 | 20.441 | 0.000 | 89 | 135266 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.606 | 13.611 | -0.005 | 96 | 53260 | 3.90 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 98 | 91066 | 3.99 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.351 | 22.350 | 0.001 | 90 | 69496 | 3.81 | |
| 14 Propene | 41 | 4.259 | 4.258 | 0.001 | 28 | 856 | 0.0553 | |
| 31 Acetone | 43 | 7.713 | 7.706 | 0.007 | 96 | 6043 | 0.3775 | |

Reagents:

VAMIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100307.D

Injection Date: 03-Oct-2016 18:52:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-4

Lab Sample ID: 320-22176-4

Worklist Smp#: 7

Client ID: 34000913

Purge Vol: 500.000 mL

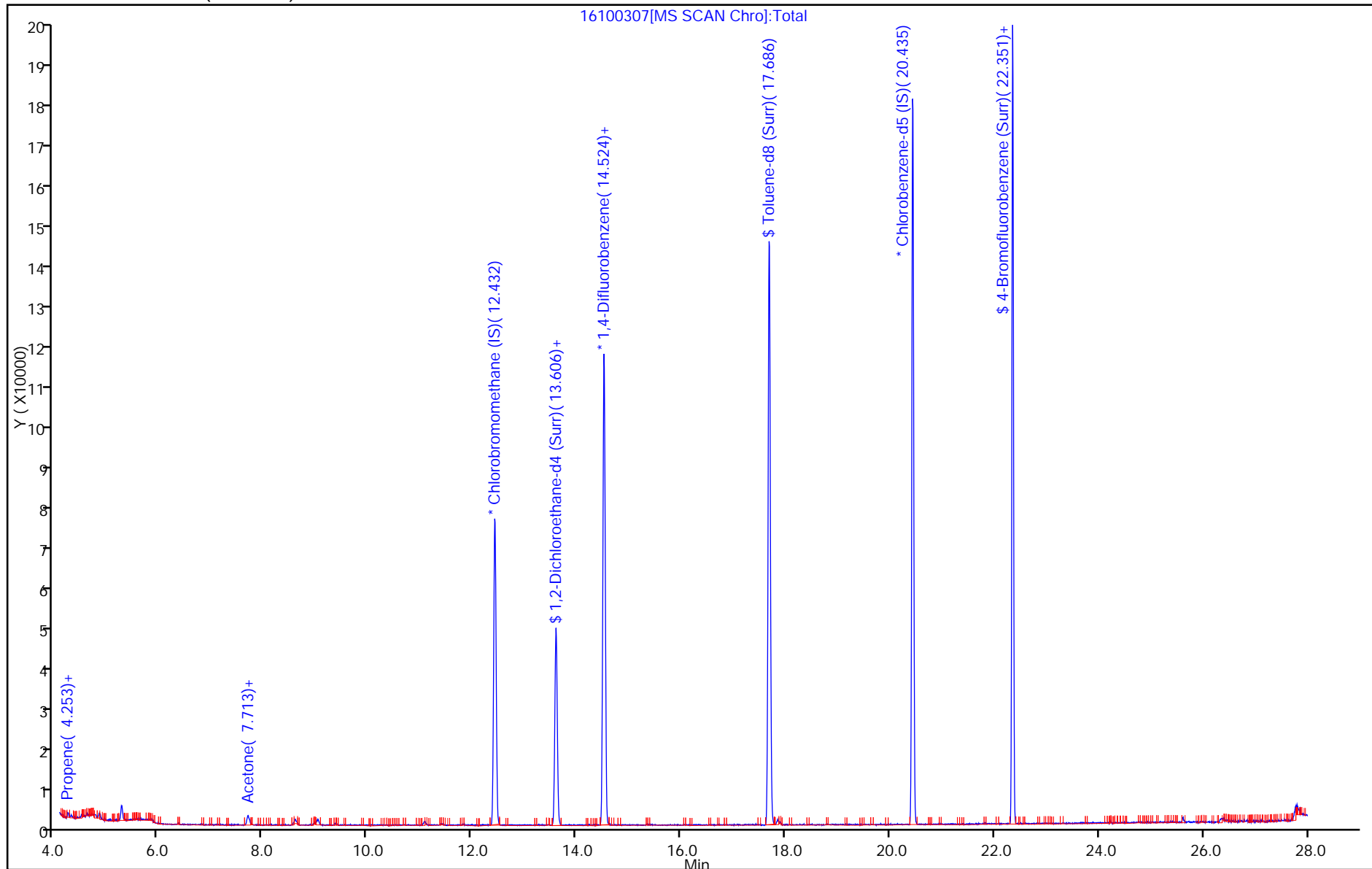
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100307.D

Injection Date: 03-Oct-2016 18:52:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-4

Lab Sample ID: 320-22176-4

Client ID: 34000913

Operator ID: KY

ALS Bottle#: 2 Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

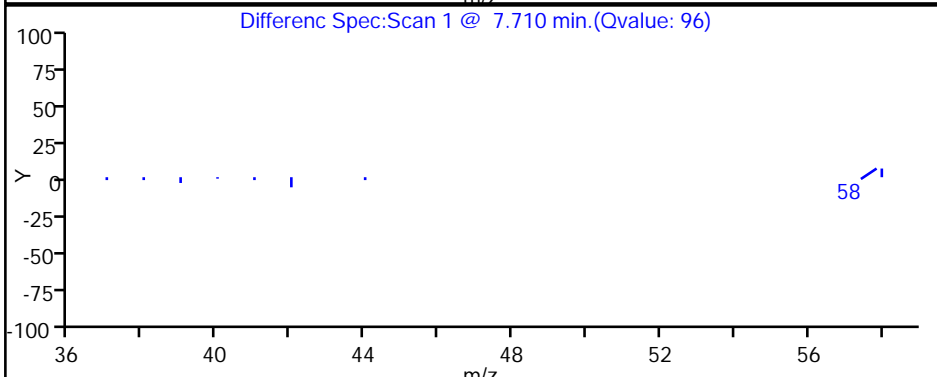
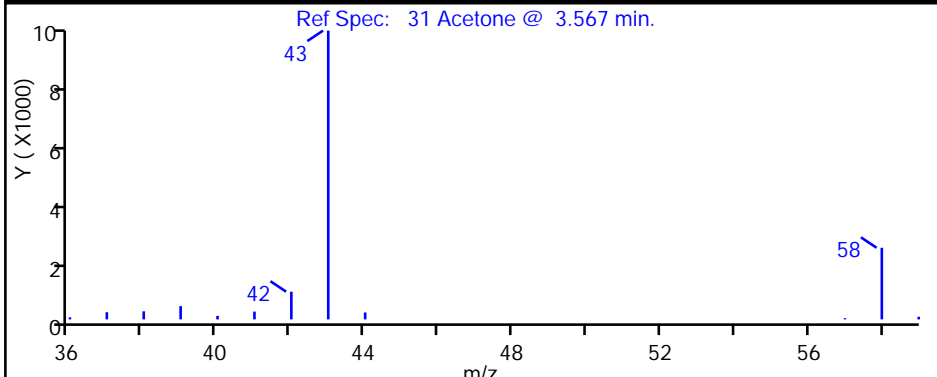
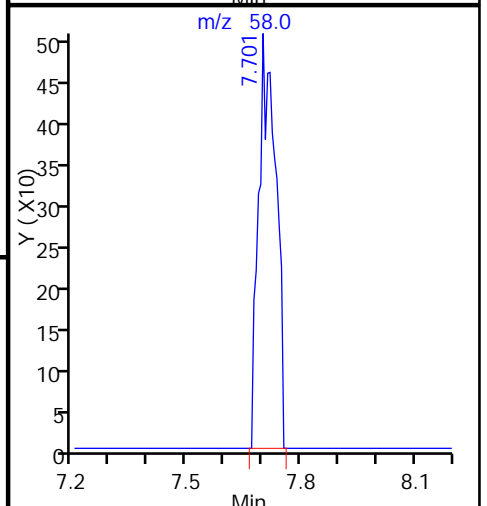
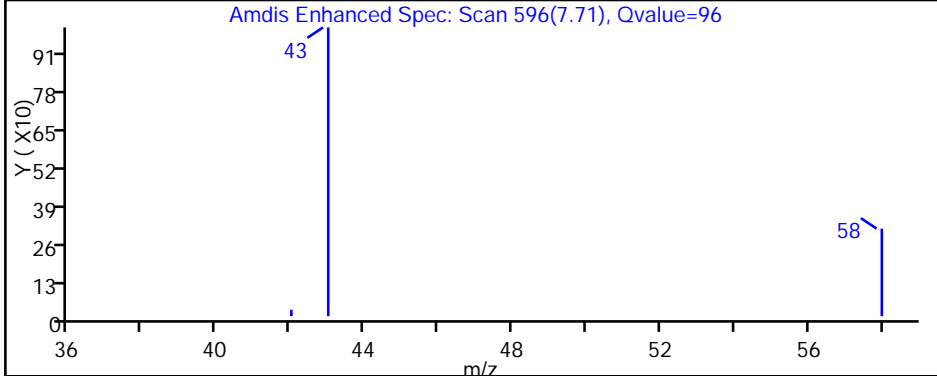
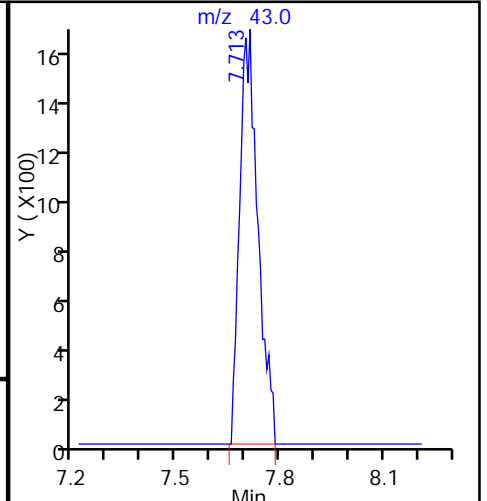
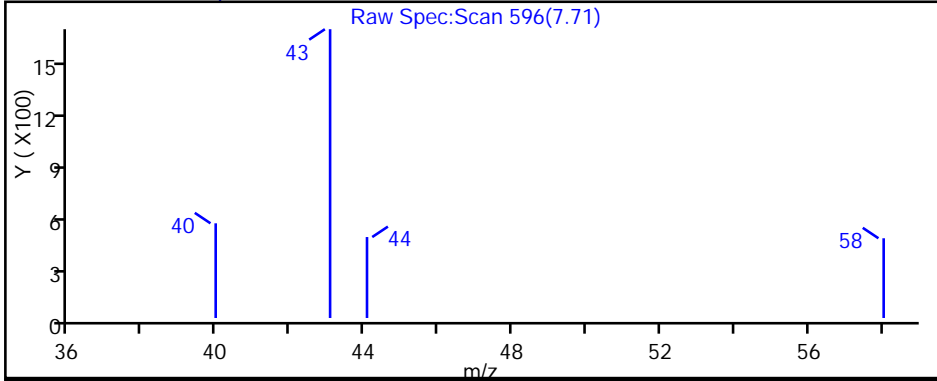
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001671 Lab Sample ID: 320-22176-5
 Matrix: Air Lab File ID: 16100308.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 19:41
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 1.7 | 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) | NC | | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001671 Lab Sample ID: 320-22176-5
 Matrix: Air Lab File ID: 16100308.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 19:41
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 108-88-3 | Toluene | 0.080 | J | 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001671 Lab Sample ID: 320-22176-5
 Matrix: Air Lab File ID: 16100308.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 19:41
 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.: 130498 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) | 93 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D
 Lims ID: 320-22176-A-5
 Client ID: 34001671
 Sample Type: Client
 Inject. Date: 03-Oct-2016 19:41:30 ALS Bottle#: 3 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-5
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:24:59 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:24:59

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.437 | 12.438 | -0.001 | 94 | 37793 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.529 | 14.529 | 0.000 | 96 | 148077 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.440 | 20.441 | -0.001 | 89 | 132844 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.611 | 13.611 | 0.000 | 97 | 52499 | 3.90 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.685 | 17.686 | -0.001 | 98 | 88400 | 4.00 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.350 | 22.350 | 0.000 | 90 | 66714 | 3.72 | |
| 14 Propene | 41 | 4.264 | 4.258 | 0.006 | 26 | 1278 | 0.0837 | |
| 31 Acetone | 43 | 7.694 | 7.706 | -0.012 | 99 | 26853 | 1.70 | |
| 47 Methylene Chloride | 49 | 8.983 | 8.977 | 0.006 | 66 | 1342 | 0.0713 | |
| 54 2-Butanone (MEK) | 72 | 11.415 | 11.375 | 0.040 | 94 | 314 | NC | |
| 85 Toluene | 91 | 17.837 | 17.844 | -0.007 | 90 | 2607 | 0.0799 | |
| 115 1,2,4-Trimethylbenzene | 120 | 23.414 | 23.408 | 0.006 | 89 | 698 | 0.0928 | |

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D

Injection Date: 03-Oct-2016 19:41:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-5

Lab Sample ID: 320-22176-5

Worklist Smp#: 8

Client ID: 34001671

Purge Vol: 500.000 mL

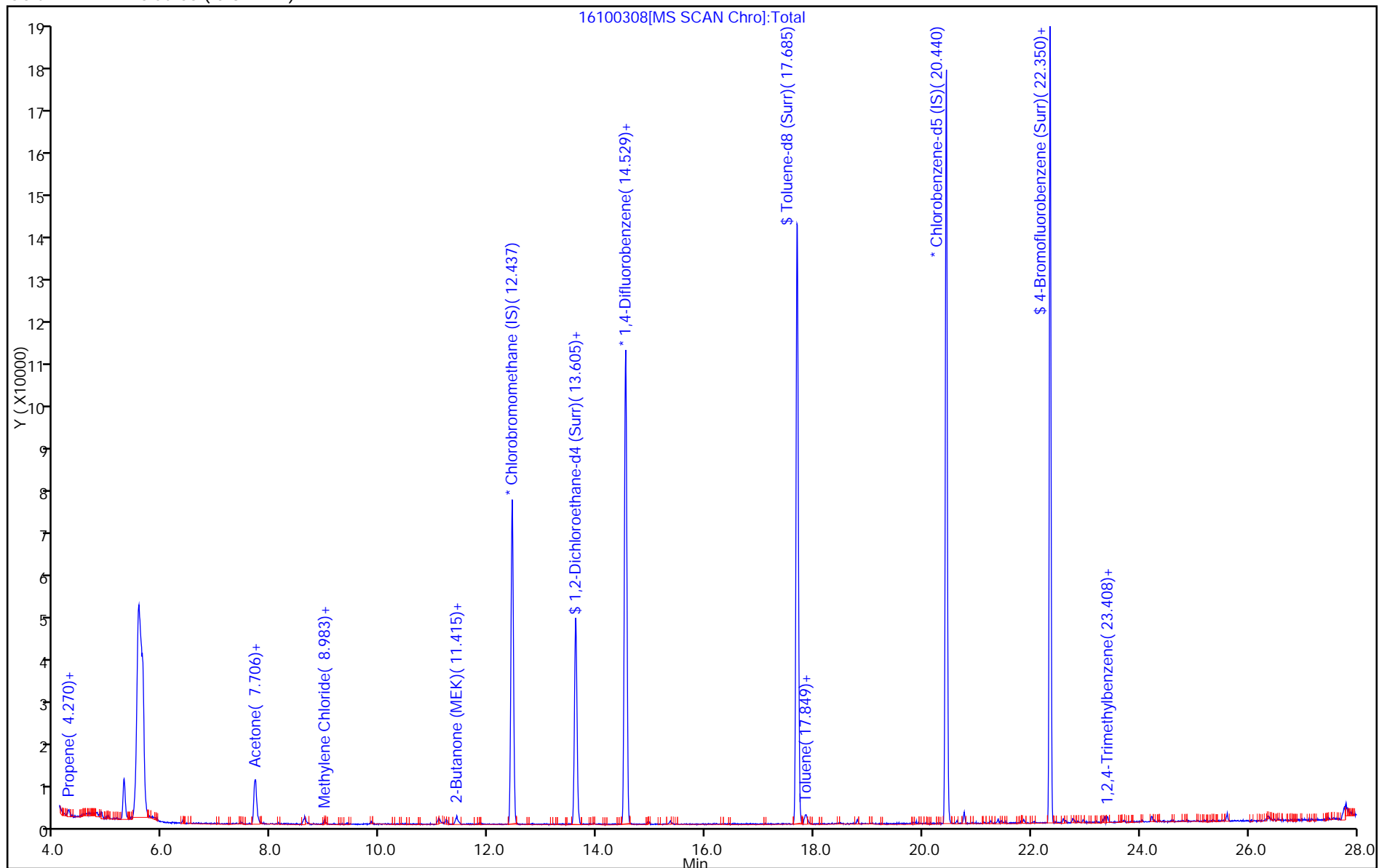
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D

Injection Date: 03-Oct-2016 19:41:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-5

Lab Sample ID: 320-22176-5

Client ID: 34001671

Operator ID: KY

ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

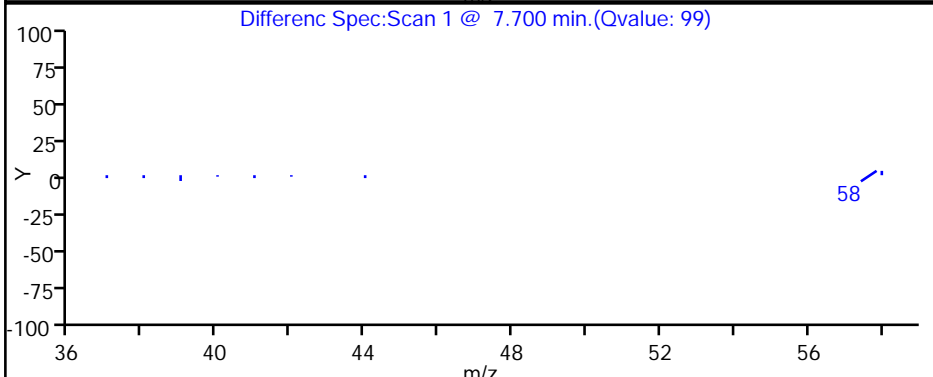
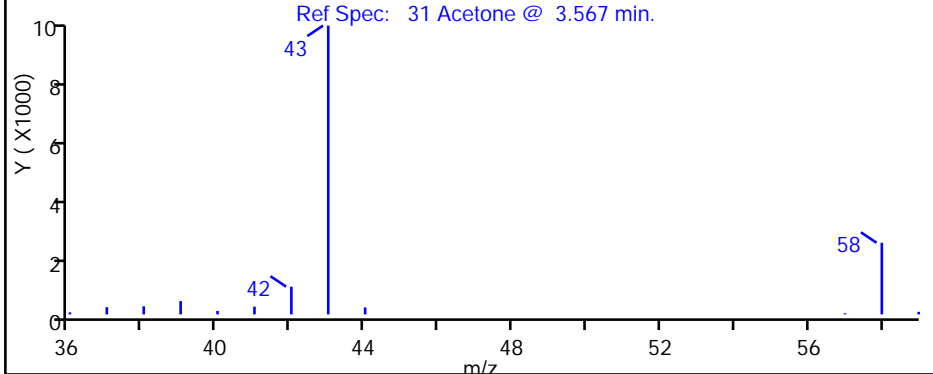
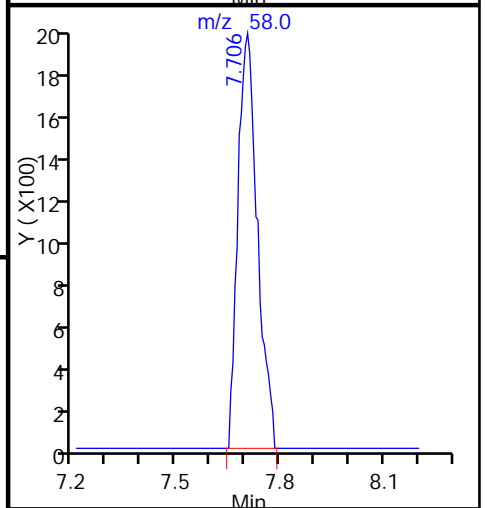
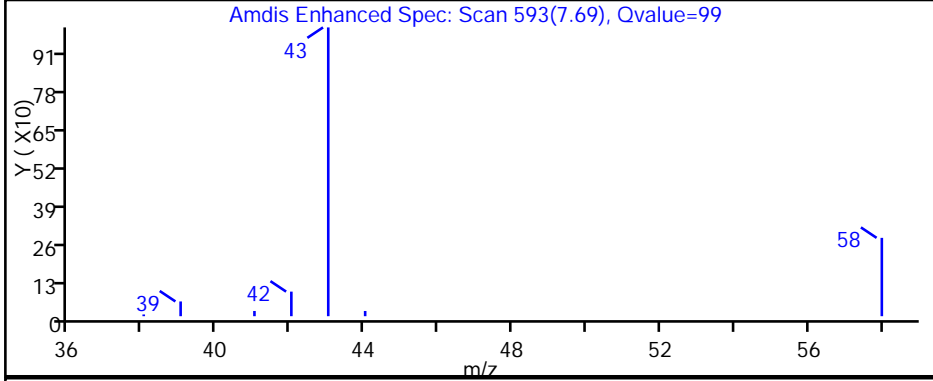
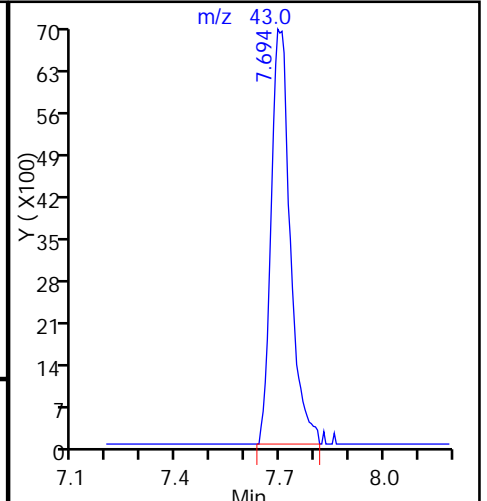
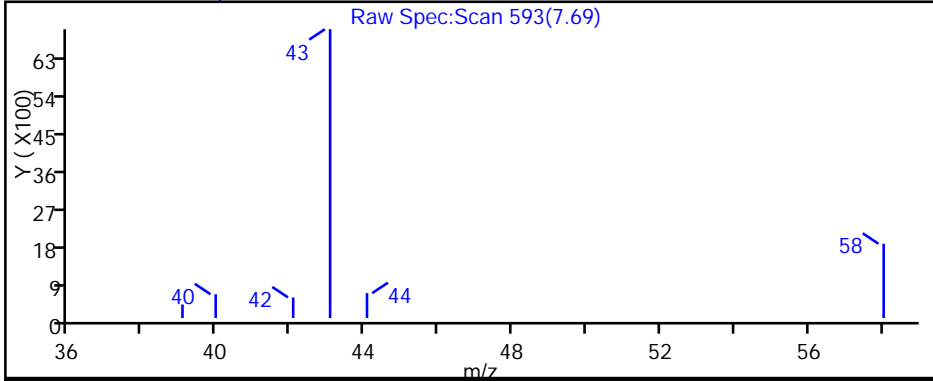
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D

Injection Date: 03-Oct-2016 19:41:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-5

Lab Sample ID: 320-22176-5

Client ID: 34001671

Operator ID: KY

ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

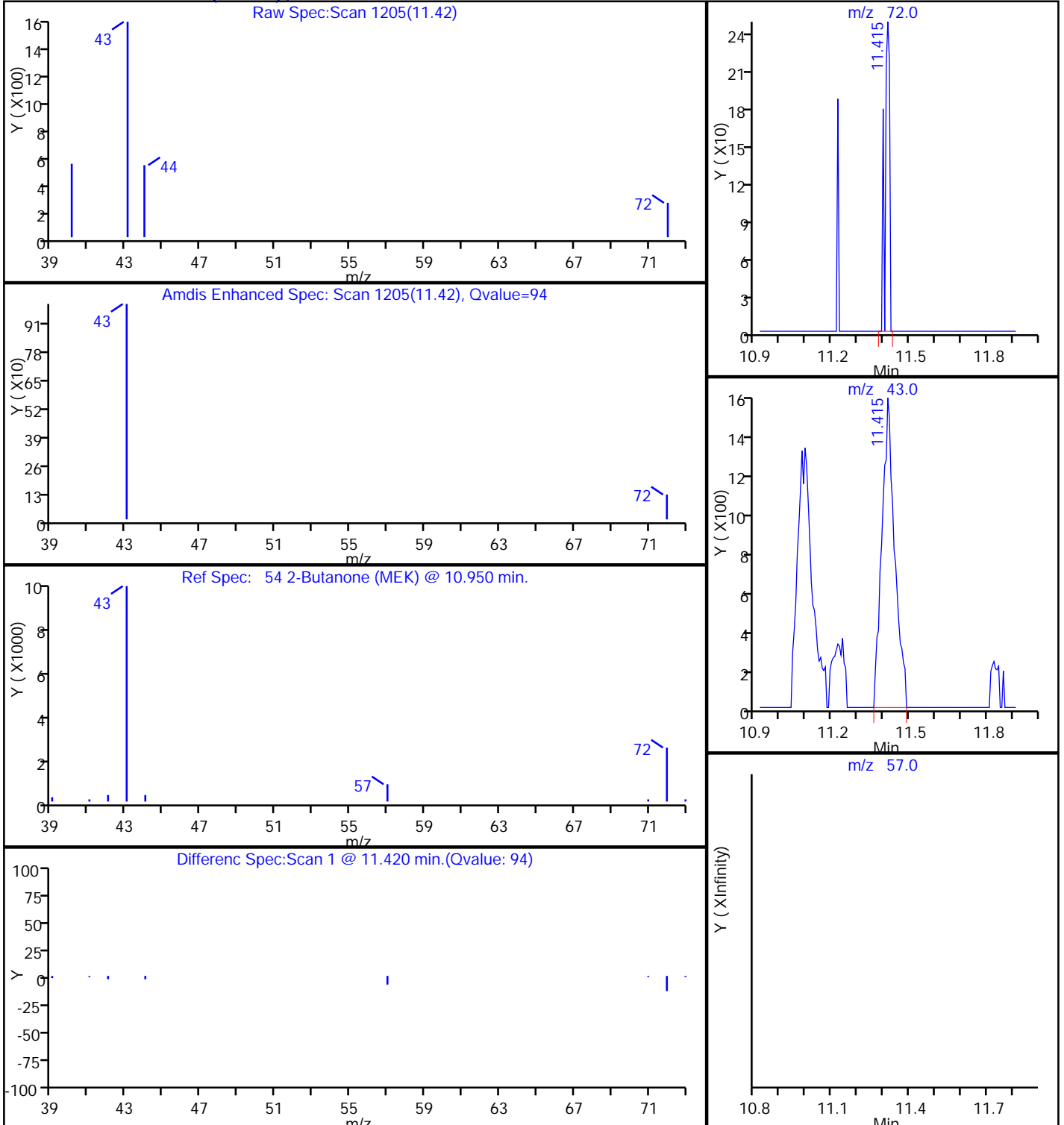
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

54 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D

Injection Date: 03-Oct-2016 19:41:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-5

Lab Sample ID: 320-22176-5

Client ID: 34001671

Operator ID: KY

ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

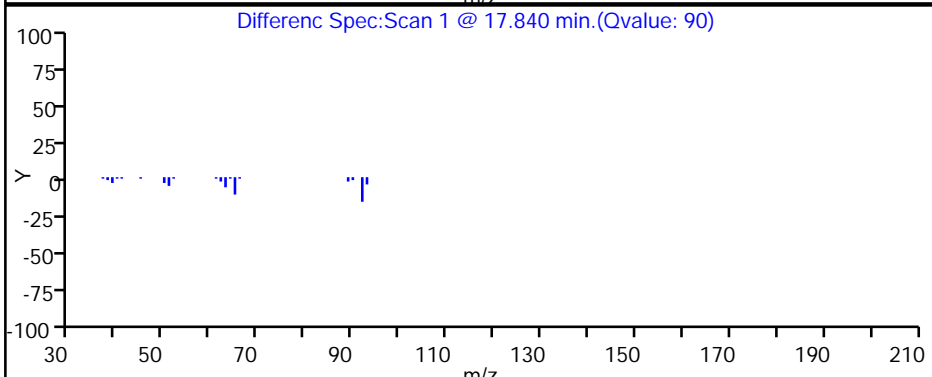
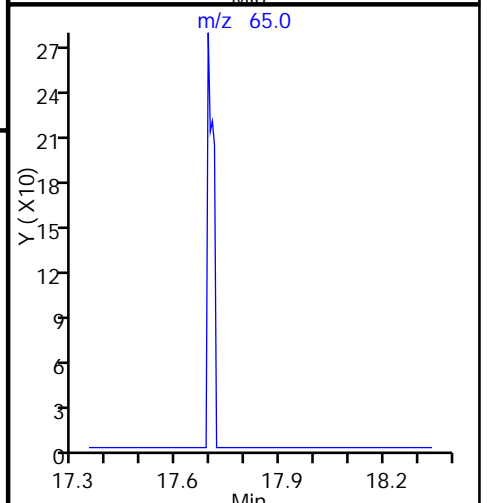
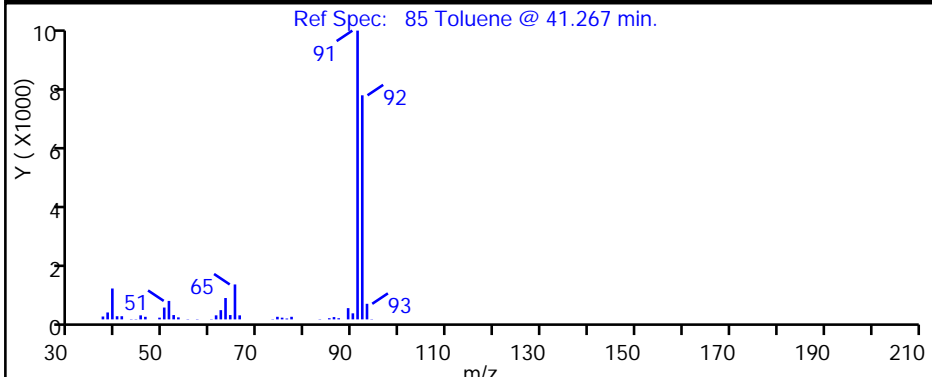
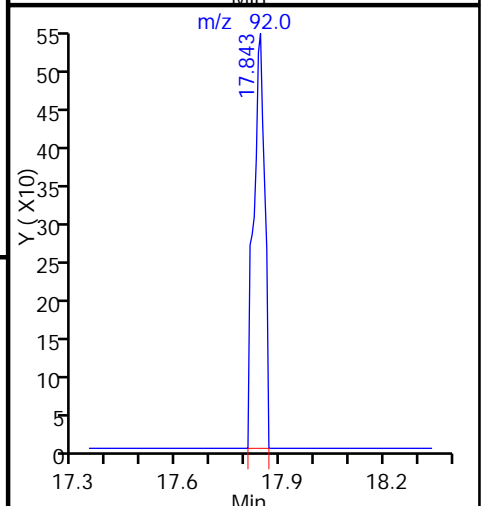
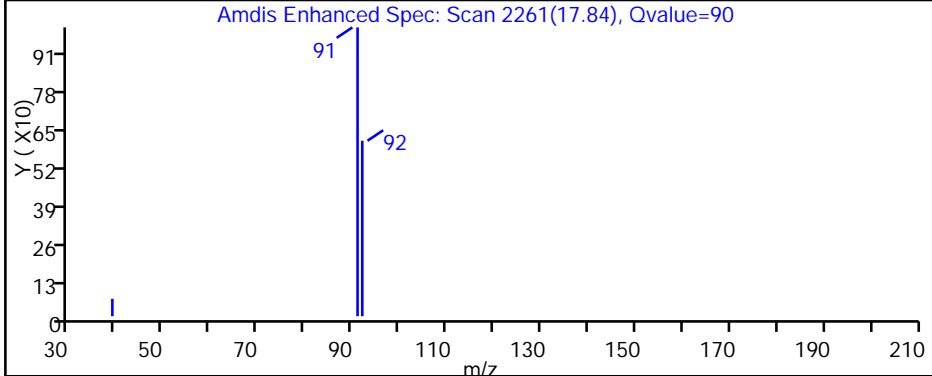
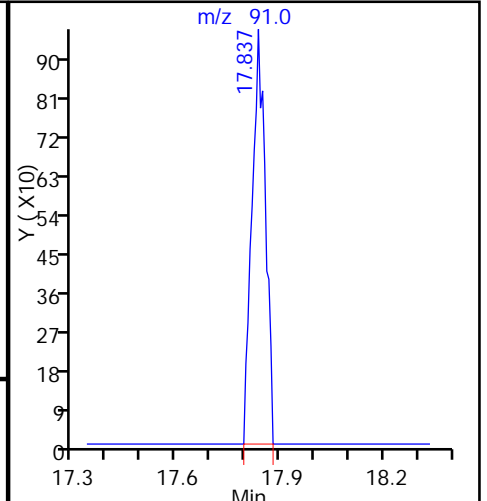
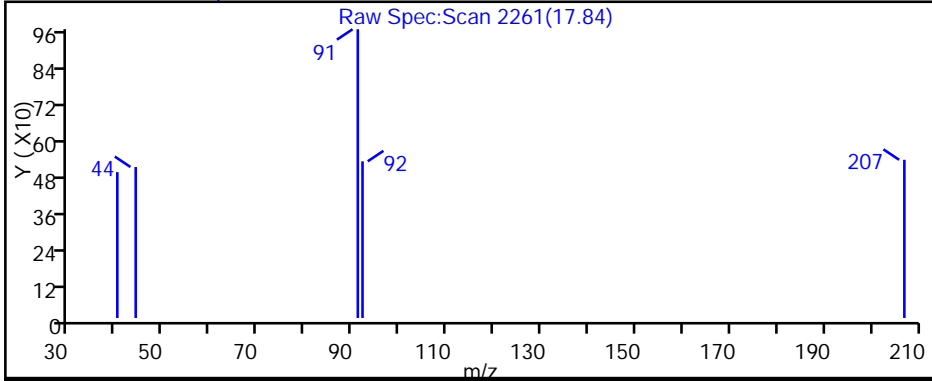
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

85 Toluene, CAS: 108-88-3



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 8440 Lab Sample ID: 320-22176-6
 Matrix: Air Lab File ID: 16100309.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 20:32
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 1.7 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 8440 Lab Sample ID: 320-22176-6
 Matrix: Air Lab File ID: 16100309.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 20:32
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 8440 Lab Sample ID: 320-22176-6
 Matrix: Air Lab File ID: 16100309.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 20:32
 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.: 130498 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) | 91 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100309.D
 Lims ID: 320-22176-A-6
 Client ID: 8440
 Sample Type: Client
 Inject. Date: 03-Oct-2016 20:32:30 ALS Bottle#: 4 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-6
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:26:40 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:26:40

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.438 | 12.438 | 0.000 | 94 | 37245 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.530 | 14.529 | 0.001 | 96 | 151337 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.435 | 20.441 | -0.006 | 89 | 129536 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Surr) | 65 | 13.611 | 13.611 | 0.000 | 97 | 52692 | 3.97 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 97 | 88105 | 3.91 | |
| \$ 6 4-Bromofluorobenzene (Surr) | 174 | 22.350 | 22.350 | 0.000 | 90 | 63888 | 3.66 | |
| 14 Propene | 41 | 4.270 | 4.258 | 0.012 | 23 | 1107 | 0.0736 | |
| 31 Acetone | 43 | 7.694 | 7.706 | -0.012 | 98 | 26088 | 1.68 | |
| 85 Toluene | 91 | 17.844 | 17.844 | 0.000 | 89 | 1046 | 0.0314 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100309.D

Injection Date: 03-Oct-2016 20:32:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-6

Lab Sample ID: 320-22176-6

Worklist Smp#: 9

Client ID: 8440

Purge Vol: 500.000 mL

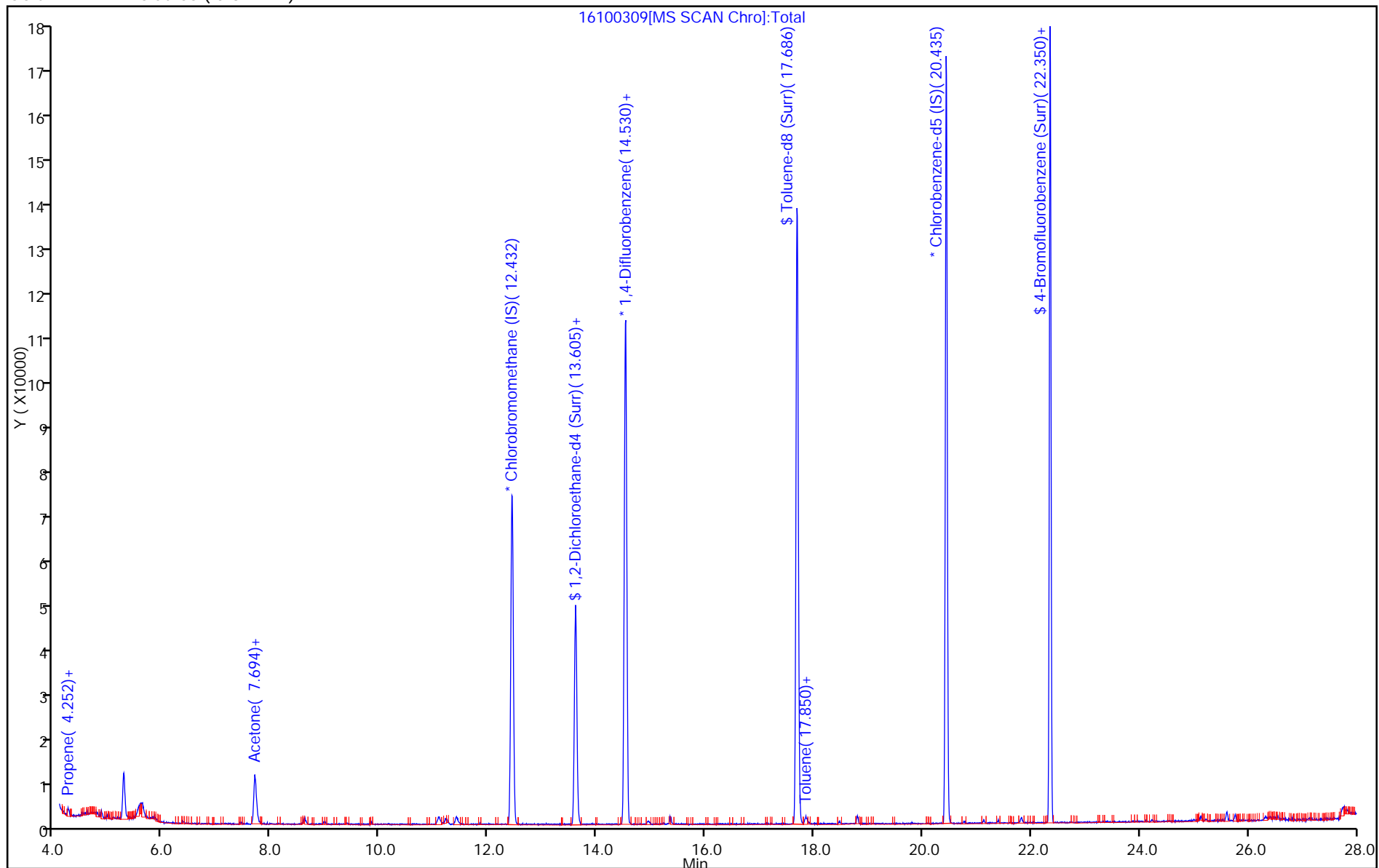
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100309.D

Injection Date: 03-Oct-2016 20:32:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-6

Lab Sample ID: 320-22176-6

Client ID: 8440

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

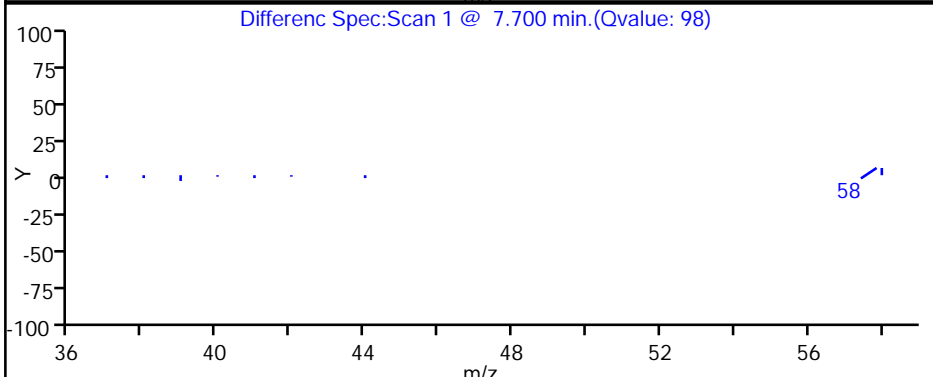
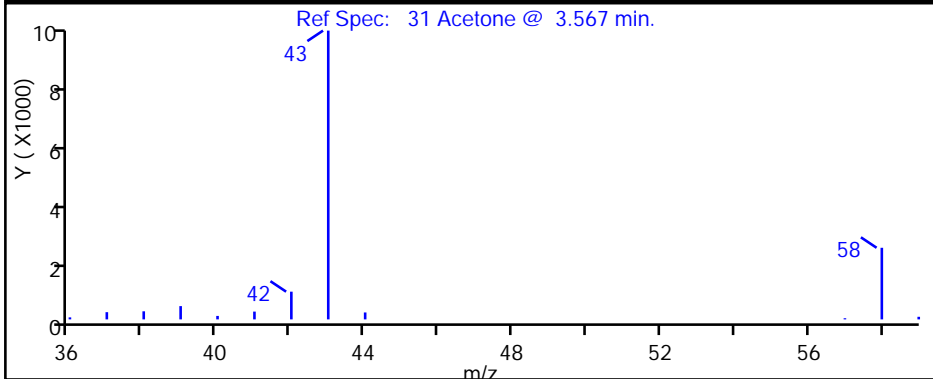
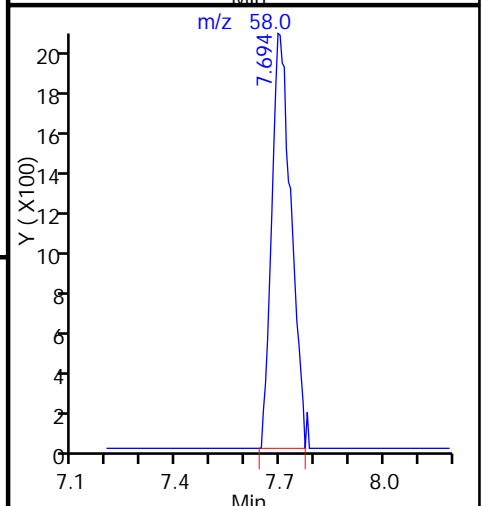
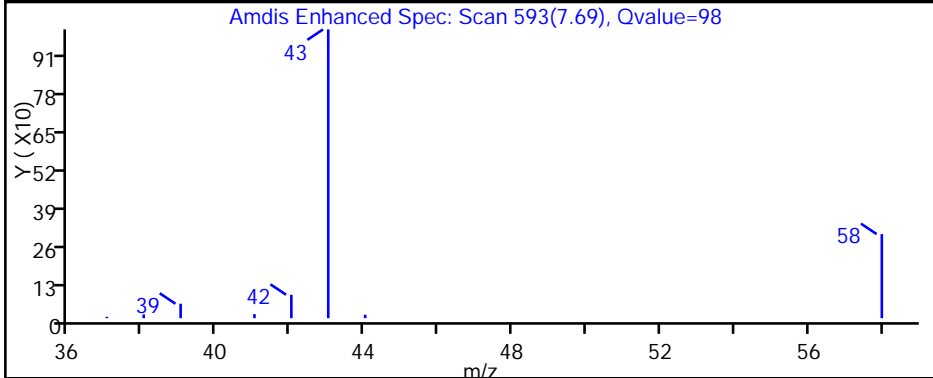
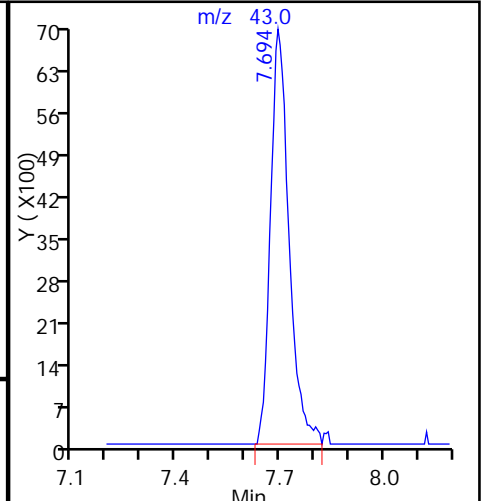
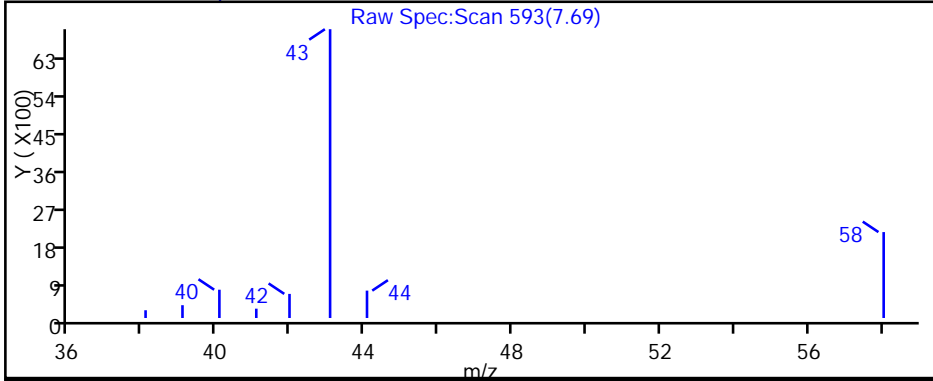
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000740 Lab Sample ID: 320-22176-8
 Matrix: Air Lab File ID: 16100312.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 22:55
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | ND | | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000740 Lab Sample ID: 320-22176-8
 Matrix: Air Lab File ID: 16100312.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 22:55
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000740 Lab Sample ID: 320-22176-8
 Matrix: Air Lab File ID: 16100312.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 22:55
 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.: 130498 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100312.D
 Lims ID: 320-22176-A-8
 Client ID: 34000740
 Sample Type: Client
 Inject. Date: 03-Oct-2016 22:55:30 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-8
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:32:55 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:32:54

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.439 | 12.438 | 0.001 | 93 | 38557 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.531 | 14.529 | 0.002 | 96 | 157280 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.436 | 20.441 | -0.005 | 89 | 136357 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.607 | 13.611 | -0.004 | 97 | 55960 | 4.08 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.694 | 17.686 | 0.008 | 97 | 93779 | 4.00 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.352 | 22.350 | 0.002 | 90 | 67884 | 3.69 | |
| 14 Propene | 41 | 4.266 | 4.258 | 0.008 | 36 | 606 | 0.0389 | |
| 31 Acetone | 43 | 7.720 | 7.706 | 0.014 | 97 | 2485 | 0.1543 | |

Reagents:

VAMIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100312.D

Injection Date: 03-Oct-2016 22:55:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-8

Lab Sample ID: 320-22176-8

Worklist Smp#: 12

Client ID: 34000740

Purge Vol: 500.000 mL

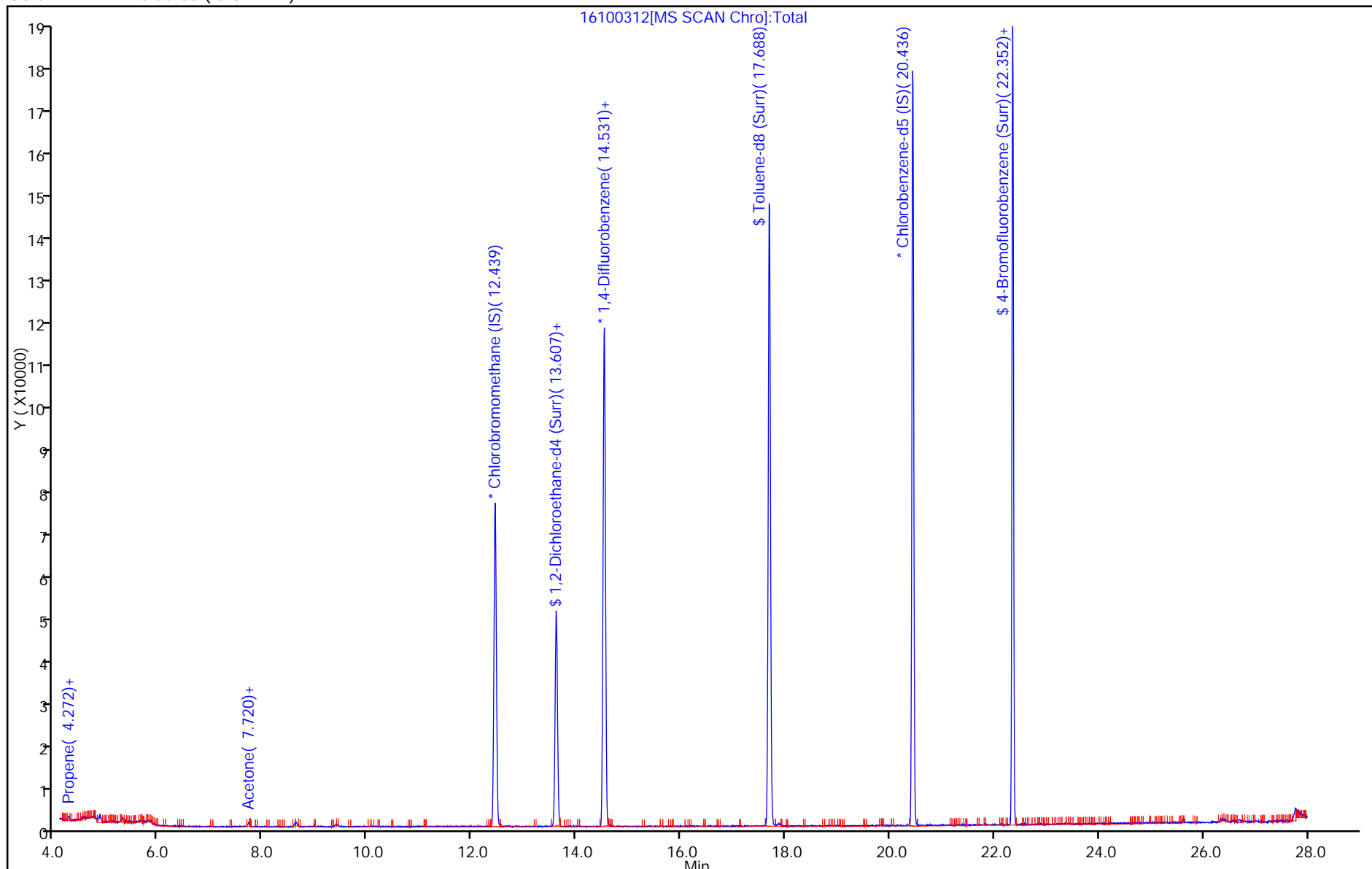
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001011 Lab Sample ID: 320-22176-9
 Matrix: Air Lab File ID: 16100313.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 23:45
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.90 | 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 | 0.55 | J | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001011 Lab Sample ID: 320-22176-9
 Matrix: Air Lab File ID: 16100313.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 23:45
 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.: 130498 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 | 0.050 |
| 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 | 0.15 | J | 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 | 0.10 | J | 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001011 Lab Sample ID: 320-22176-9
 Matrix: Air Lab File ID: 16100313.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 23:45
 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.: 130498 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D
 Lims ID: 320-22176-A-9
 Client ID: 34001011
 Sample Type: Client
 Inject. Date: 03-Oct-2016 23:45:30 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-9
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:35:29 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:35:29

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.443 | 12.438 | 0.005 | 93 | 37095 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.529 | 14.529 | 0.000 | 96 | 146453 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.440 | 20.441 | -0.001 | 89 | 127466 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.611 | 13.611 | 0.000 | 96 | 50290 | 3.81 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.685 | 17.686 | -0.001 | 98 | 85959 | 3.94 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.350 | 22.350 | 0.000 | 90 | 63213 | 3.68 | |
| 14 Propene | 41 | 4.270 | 4.258 | 0.012 | 31 | 1507 | 0.1006 | |
| 22 Butane | 43 | 5.012 | 5.000 | 0.012 | 37 | 683 | 0.0239 | |
| 31 Acetone | 43 | 7.712 | 7.706 | 0.006 | 99 | 13905 | 0.8971 | |
| 47 Methylene Chloride | 49 | 8.983 | 8.977 | 0.006 | 89 | 2757 | 0.1492 | |
| 48 Carbon disulfide | 76 | 9.050 | 9.044 | 0.006 | 98 | 14846 | 0.5514 | |
| 85 Toluene | 91 | 17.843 | 17.844 | -0.001 | 88 | 1185 | 0.0367 | |

Reagents:

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Worklist Smp#: 13

Client ID: 34001011

Purge Vol: 500.000 mL

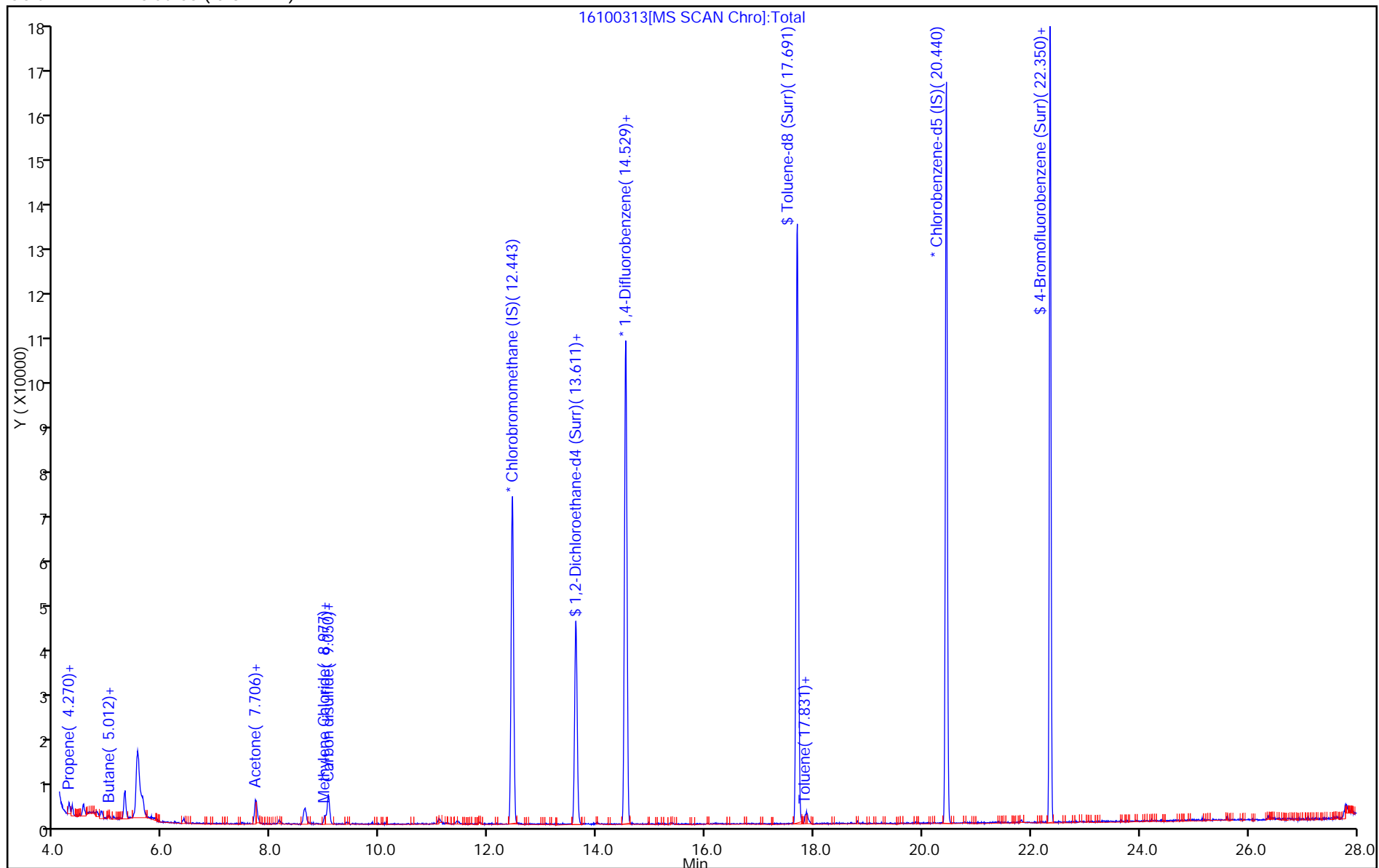
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Client ID: 34001011

Operator ID: KY

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

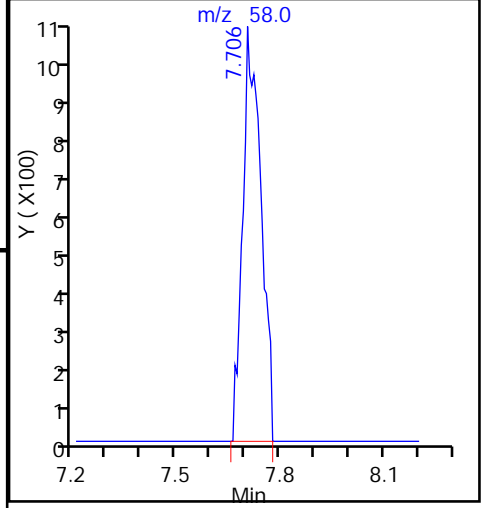
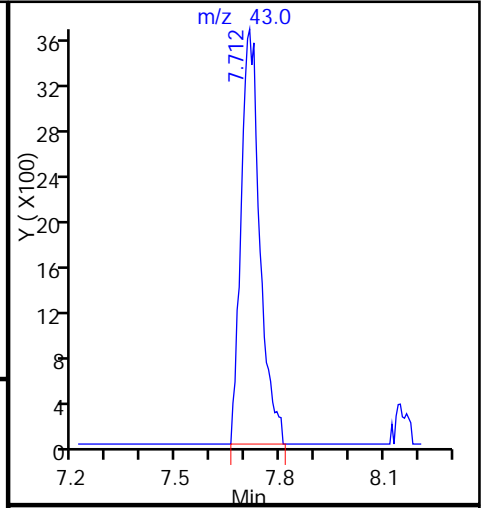
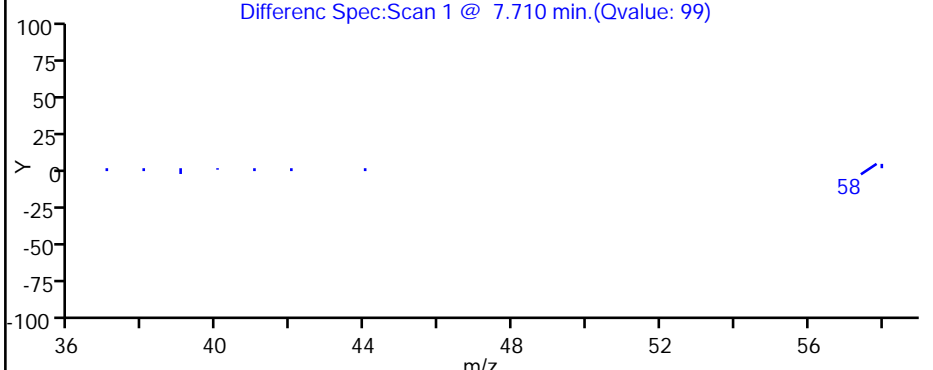
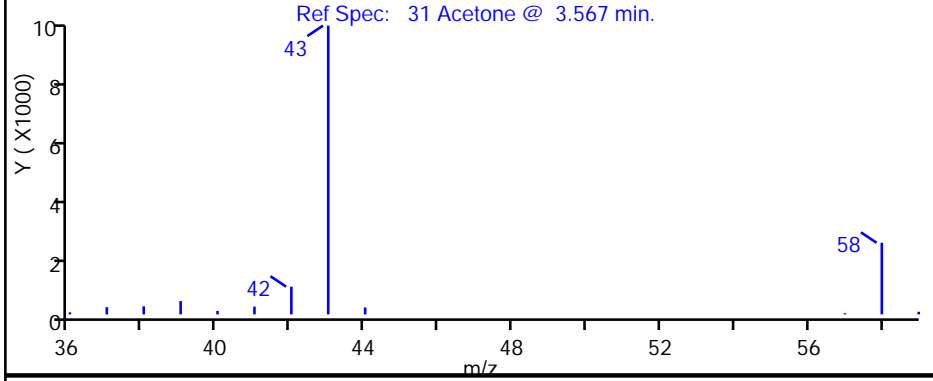
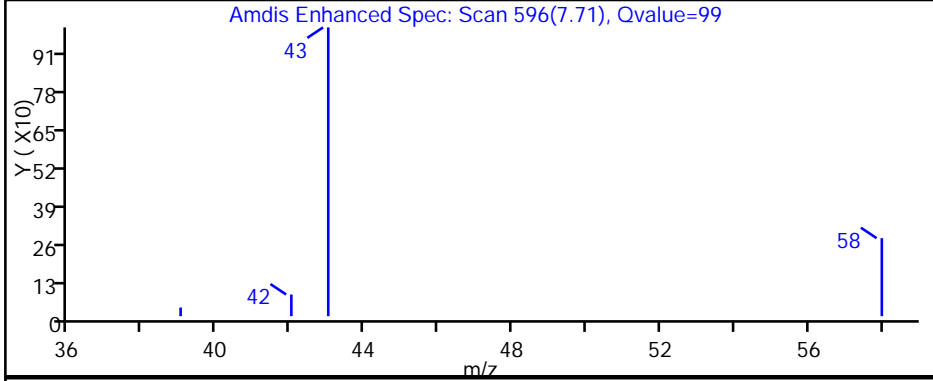
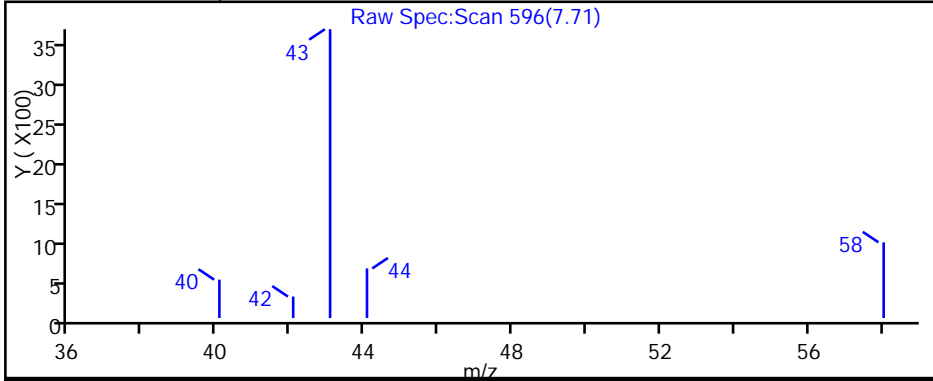
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Client ID: 34001011

Operator ID: KY

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

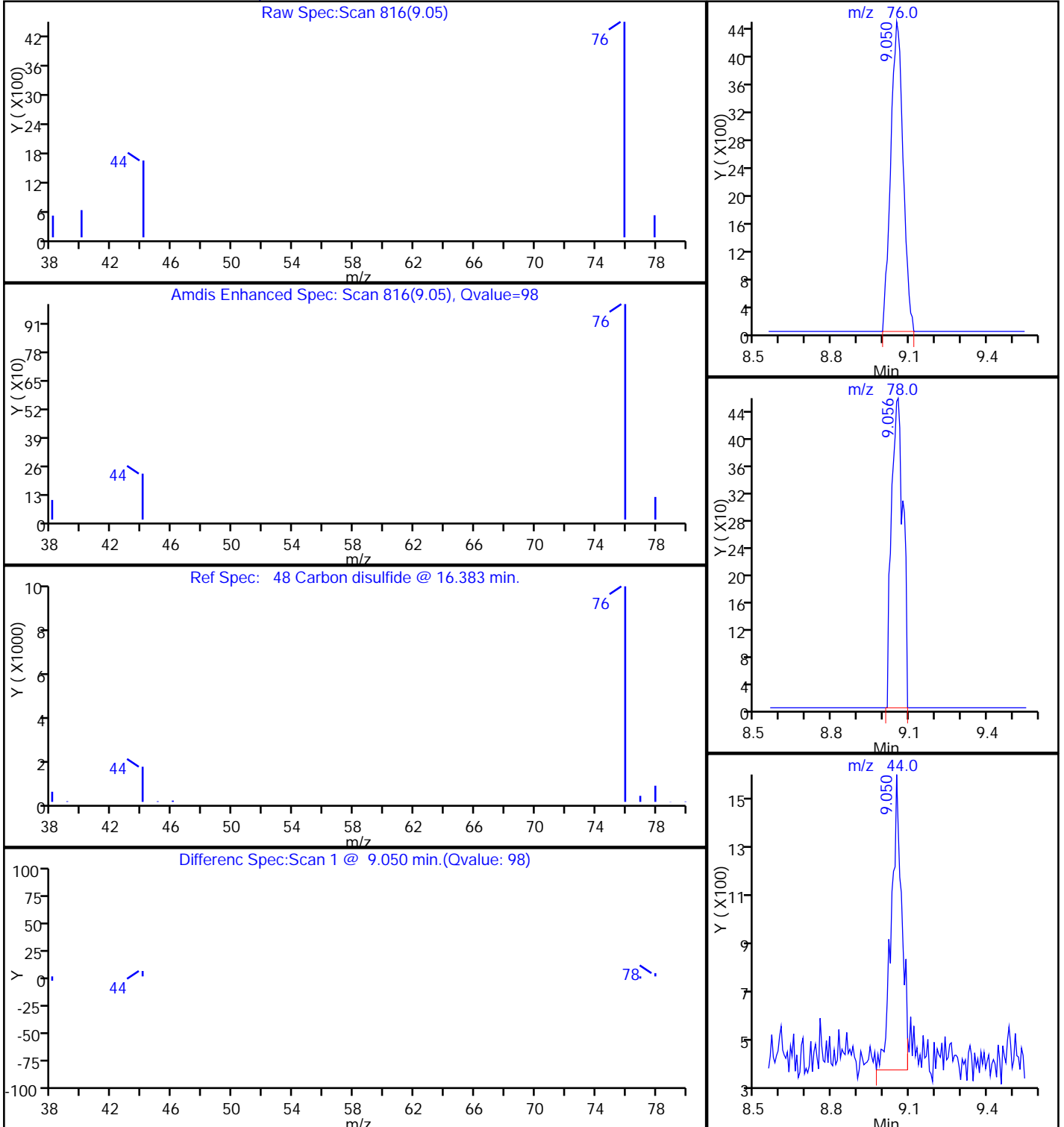
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

48 Carbon disulfide, CAS: 75-15-0



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Client ID: 34001011

Operator ID: KY

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

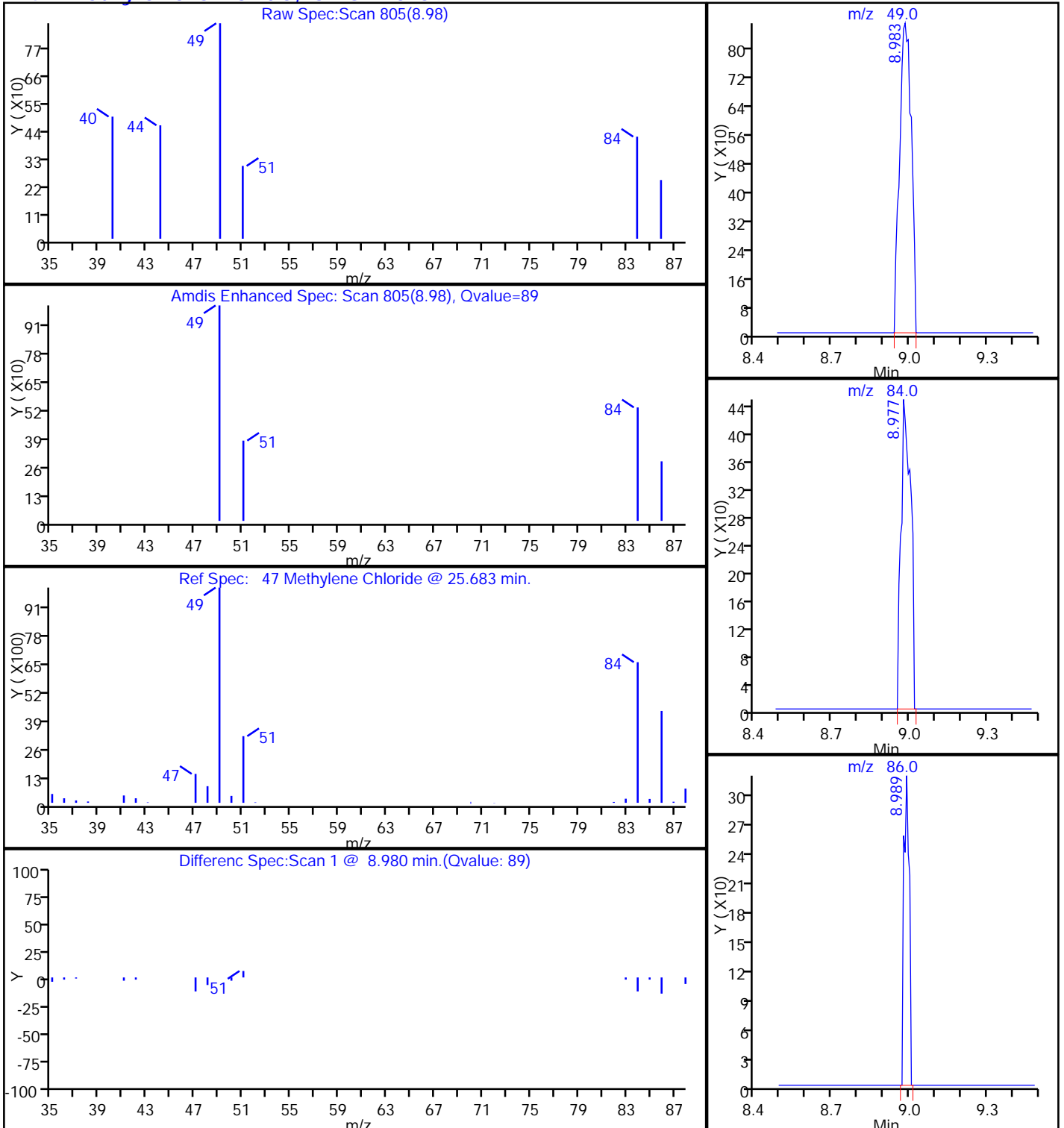
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

47 Methylene Chloride, CAS: 75-09-2



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Client ID: 34001011

Operator ID: KY

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

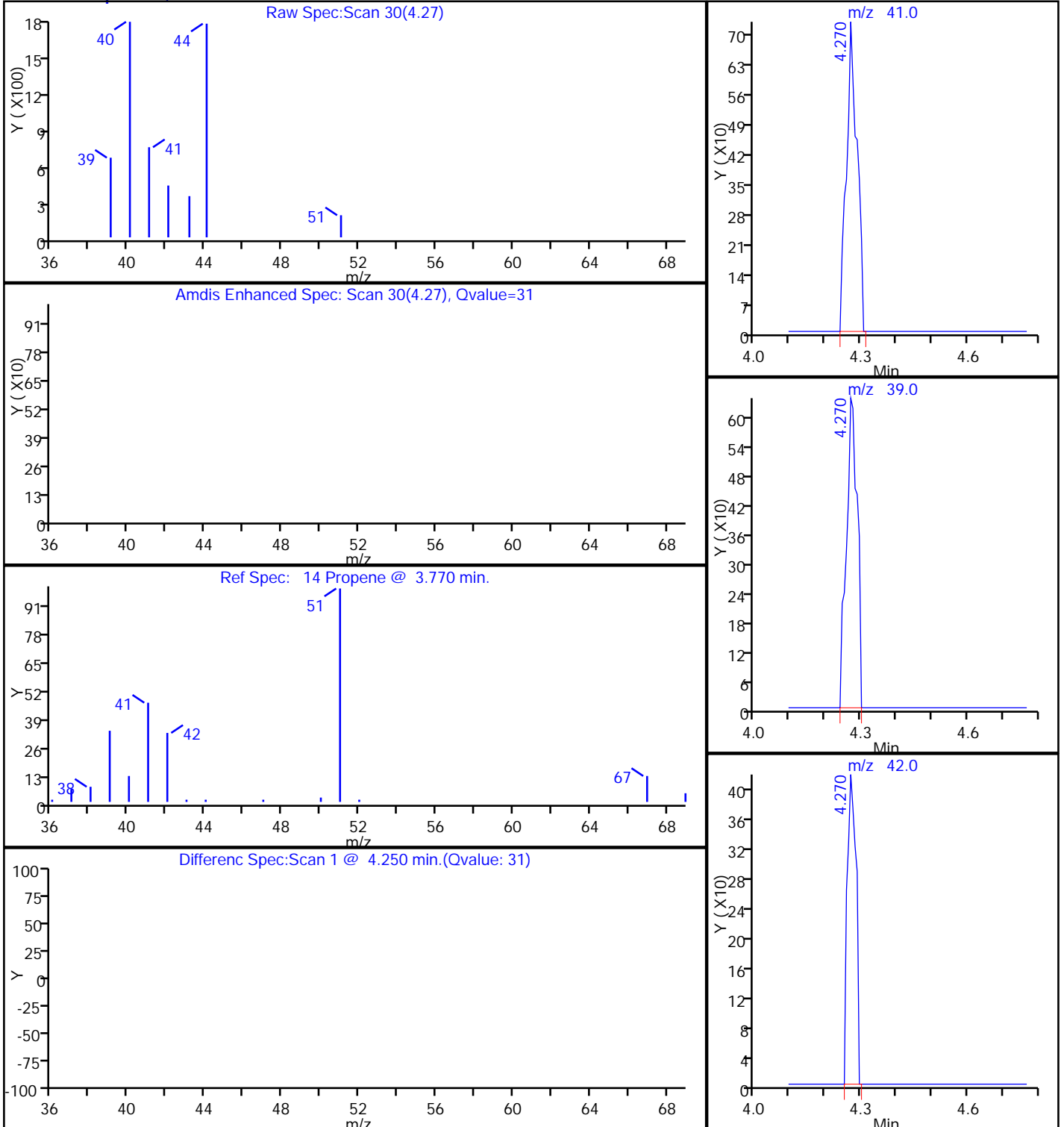
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

14 Propene, CAS: 115-07-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000965 Lab Sample ID: 320-22176-11
 Matrix: Air Lab File ID: 16100316.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:08
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 2.3 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000965 Lab Sample ID: 320-22176-11
 Matrix: Air Lab File ID: 16100316.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:08
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000965 Lab Sample ID: 320-22176-11
 Matrix: Air Lab File ID: 16100316.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:08
 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.: 130498 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) | 93 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100316.D
 Lims ID: 320-22176-A-11
 Client ID: 34000965
 Sample Type: Client
 Inject. Date: 04-Oct-2016 02:08:30 ALS Bottle#: 9 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-11
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:41:10 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:41:22

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.438 | 12.438 | 0.000 | 93 | 38932 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.530 | 14.529 | 0.001 | 96 | 156959 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.441 | 20.441 | 0.000 | 89 | 135074 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.612 | 13.611 | 0.001 | 97 | 55537 | 4.01 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 98 | 94174 | 4.03 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.357 | 22.350 | 0.007 | 91 | 67420 | 3.70 | |
| 14 Propene | 41 | 4.265 | 4.258 | 0.007 | 30 | 1228 | 0.0781 | |
| 31 Acetone | 43 | 7.701 | 7.706 | -0.005 | 99 | 37744 | 2.32 | |
| 85 Toluene | 91 | 17.850 | 17.844 | 0.006 | 92 | 815 | 0.0236 | |

Reagents:

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100316.D

Injection Date: 04-Oct-2016 02:08:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-11

Lab Sample ID: 320-22176-11

Worklist Smp#: 16

Client ID: 34000965

Purge Vol: 500.000 mL

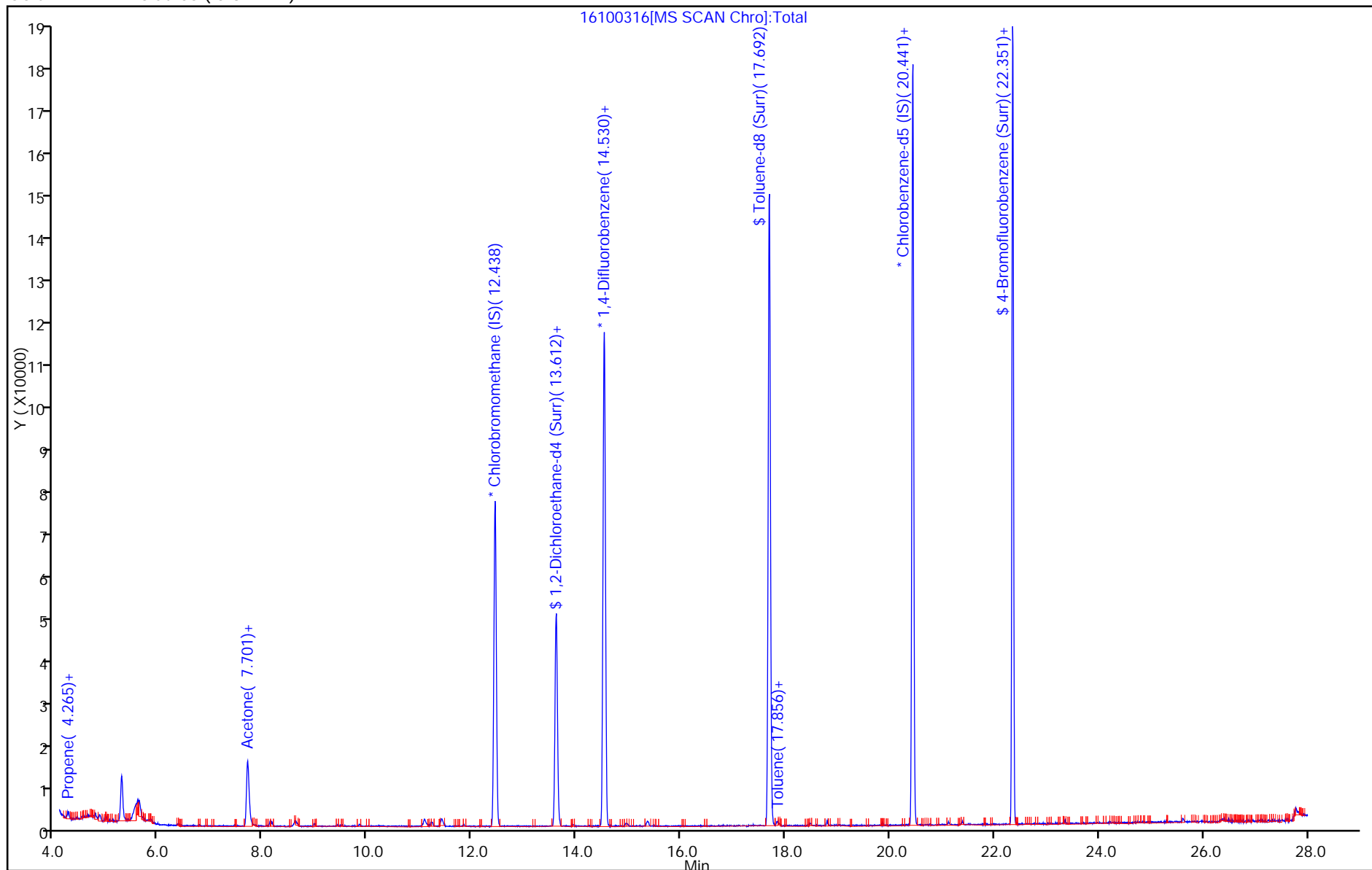
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100316.D

Injection Date: 04-Oct-2016 02:08:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-11

Lab Sample ID: 320-22176-11

Client ID: 34000965

Operator ID: KY

ALS Bottle#: 9 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

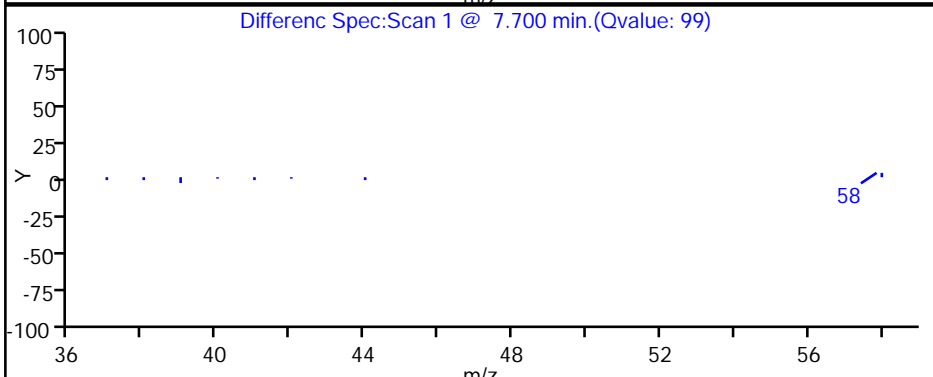
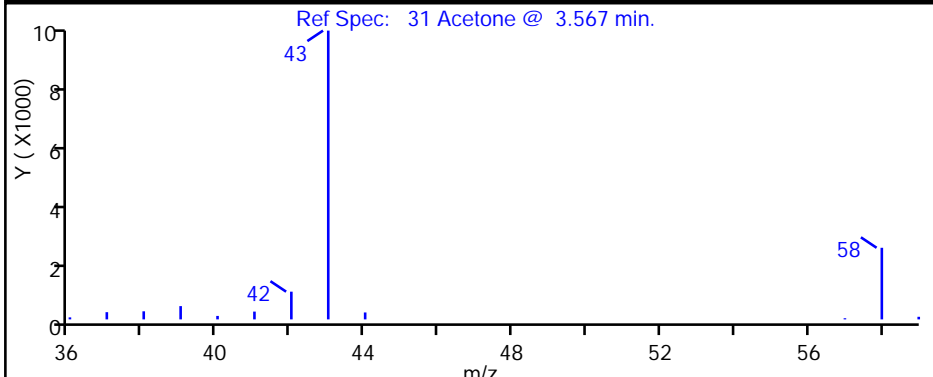
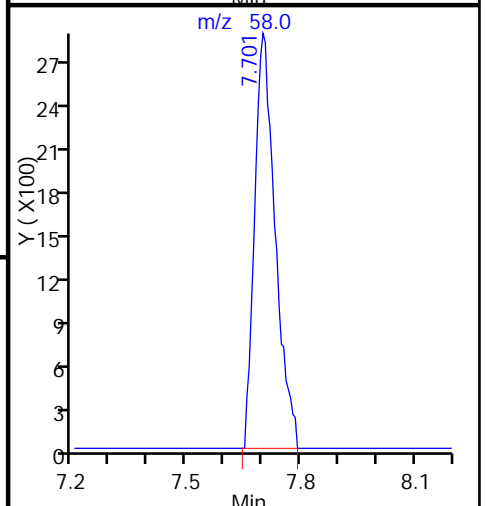
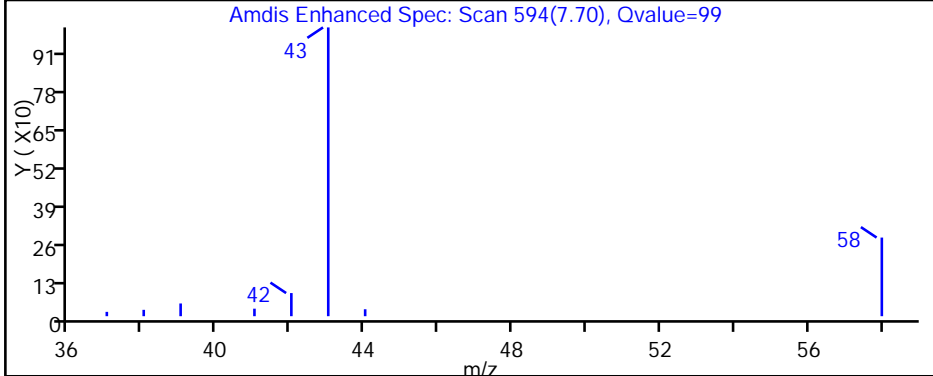
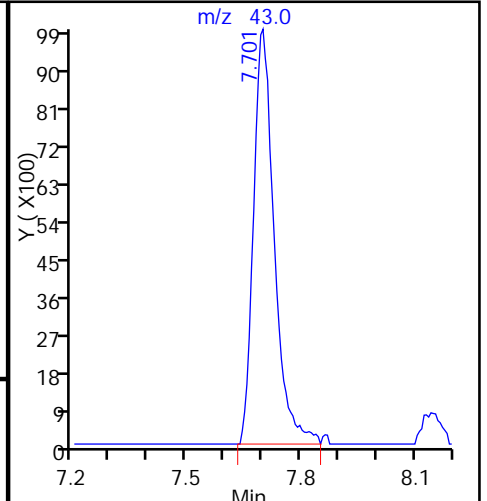
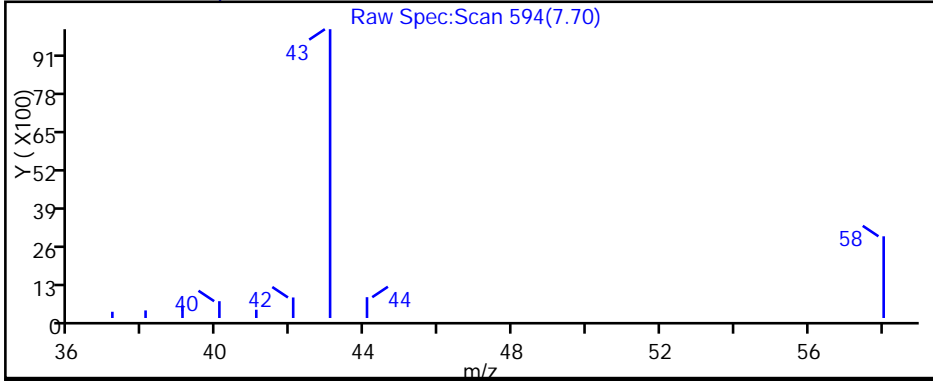
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000677 Lab Sample ID: 320-22176-12
 Matrix: Air Lab File ID: 16100317.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:57
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 2.1 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000677 Lab Sample ID: 320-22176-12
 Matrix: Air Lab File ID: 16100317.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:57
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000677 Lab Sample ID: 320-22176-12
 Matrix: Air Lab File ID: 16100317.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:57
 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.: 130498 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 | 0.30 | J | 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100317.D
 Lims ID: 320-22176-A-12
 Client ID: 34000677
 Sample Type: Client
 Inject. Date: 04-Oct-2016 02:57:30 ALS Bottle#: 10 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-12
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:42:31 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:42:40

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.440 | 12.438 | 0.002 | 94 | 37381 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.532 | 14.529 | 0.003 | 95 | 152118 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.437 | 20.441 | -0.004 | 90 | 132048 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.608 | 13.611 | -0.003 | 96 | 53981 | 4.06 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.688 | 17.686 | 0.002 | 97 | 88952 | 3.92 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.353 | 22.350 | 0.003 | 92 | 65459 | 3.68 | |
| 14 Propene | 41 | 4.261 | 4.258 | 0.003 | 40 | 1147 | 0.0760 | |
| 31 Acetone | 43 | 7.697 | 7.706 | -0.009 | 100 | 32673 | 2.09 | |
| 47 Methylene Chloride | 49 | 8.980 | 8.977 | 0.003 | 83 | 1295 | 0.0695 | |
| 98 m-Xylene & p-Xylene | 91 | 20.772 | 20.769 | 0.003 | 93 | 4465 | 0.2972 | |

Reagents:

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100317.D

Injection Date: 04-Oct-2016 02:57:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-12

Lab Sample ID: 320-22176-12

Worklist Smp#: 17

Client ID: 34000677

Purge Vol: 500.000 mL

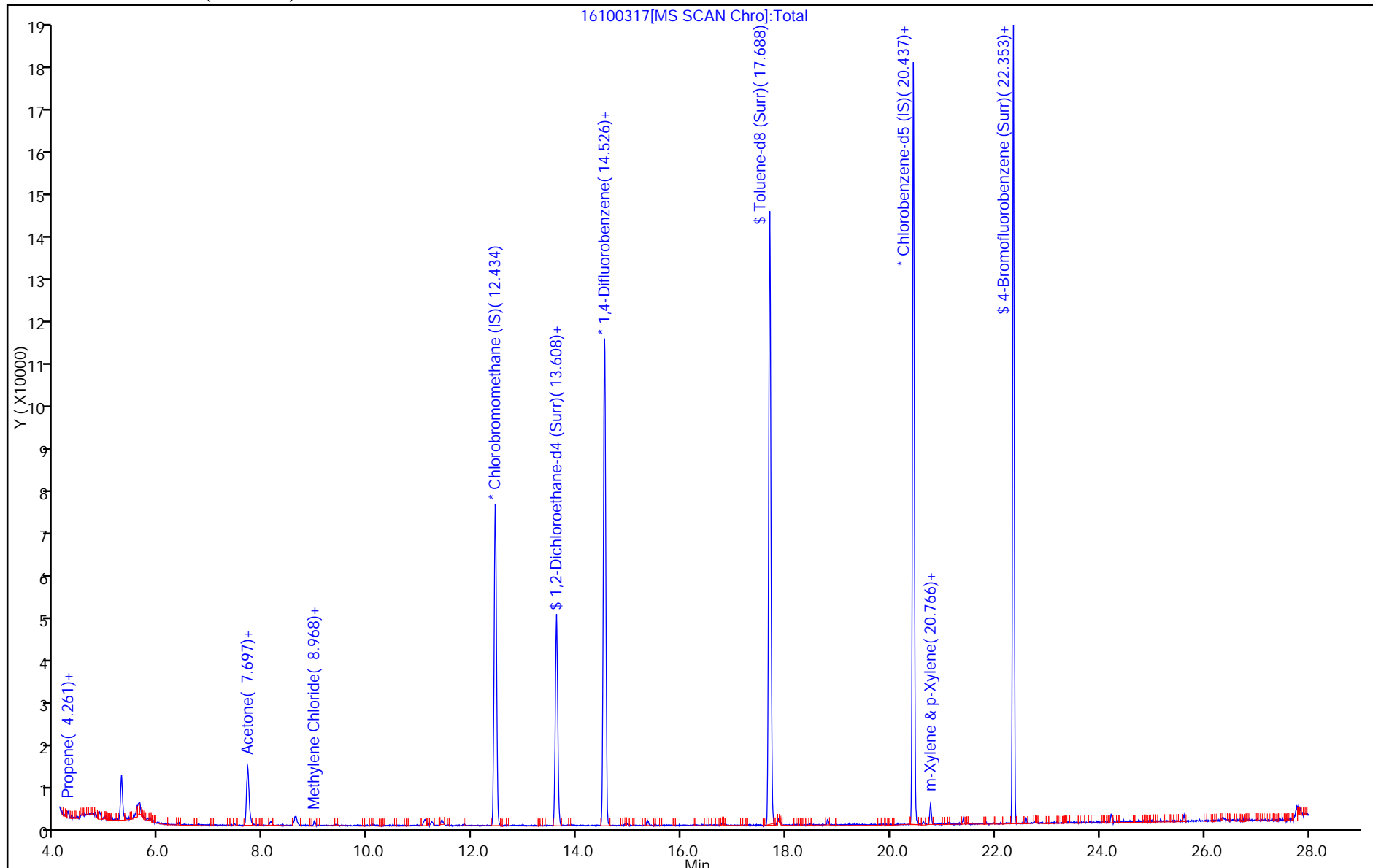
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100317.D

Injection Date: 04-Oct-2016 02:57:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-12

Lab Sample ID: 320-22176-12

Client ID: 34000677

Operator ID: KY

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

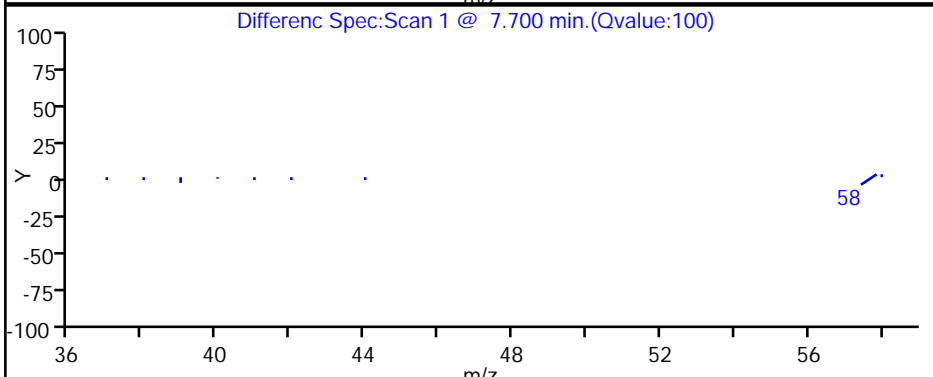
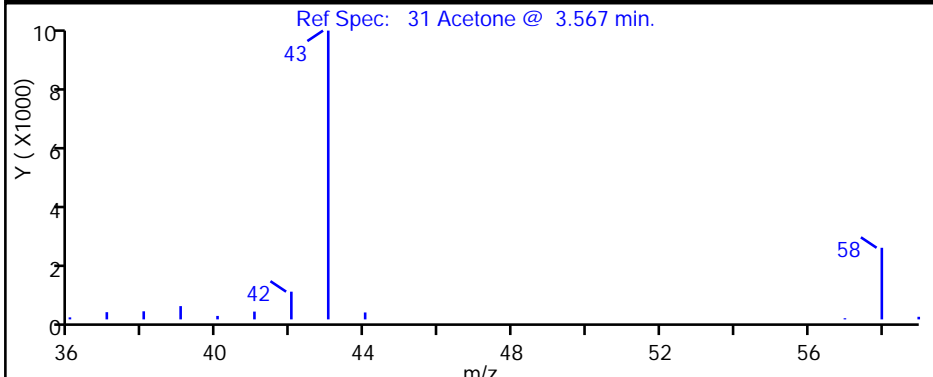
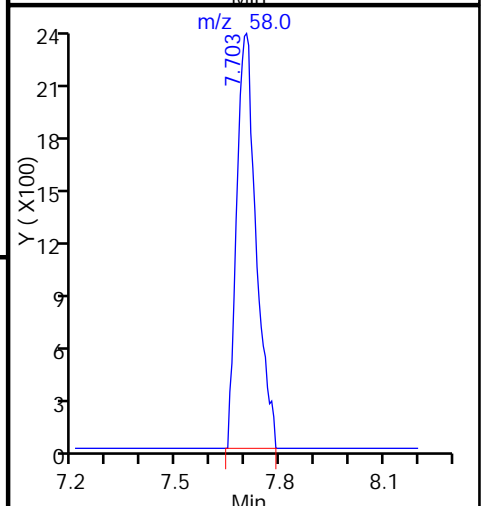
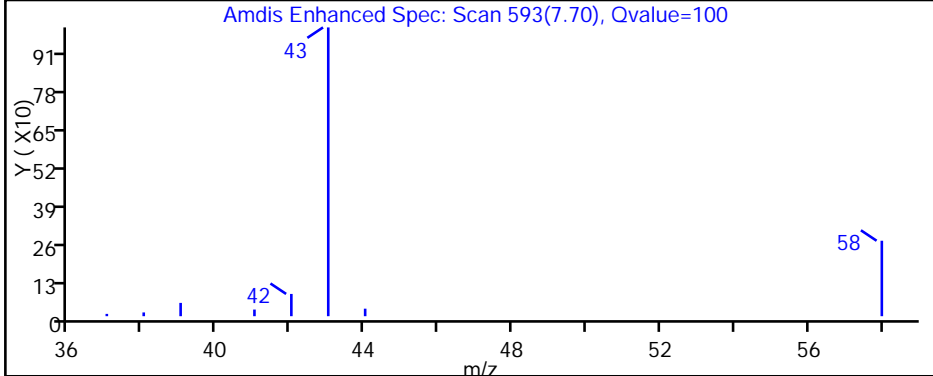
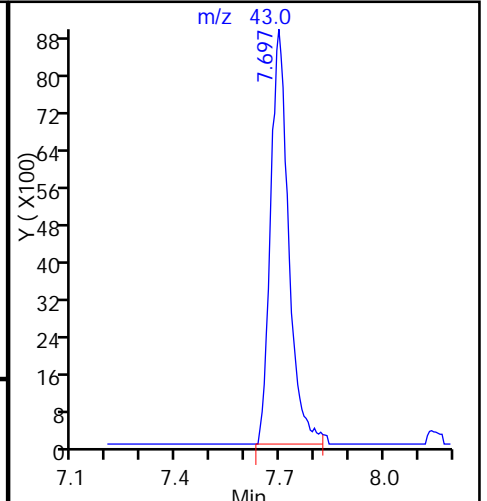
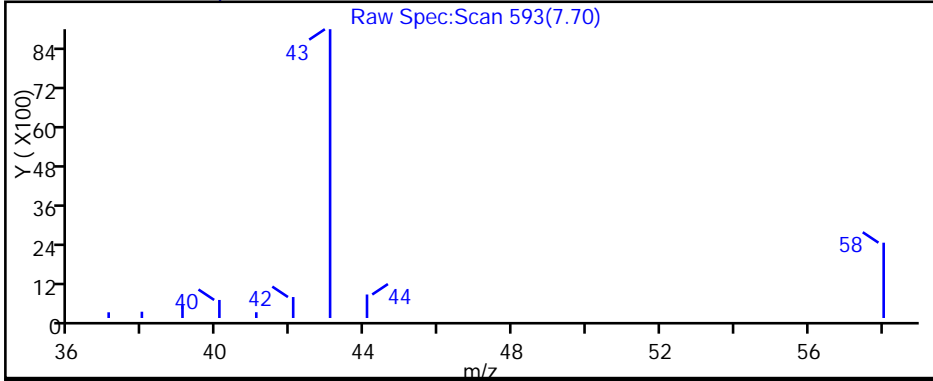
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100317.D

Injection Date: 04-Oct-2016 02:57:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-12

Lab Sample ID: 320-22176-12

Client ID: 34000677

Operator ID: KY

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

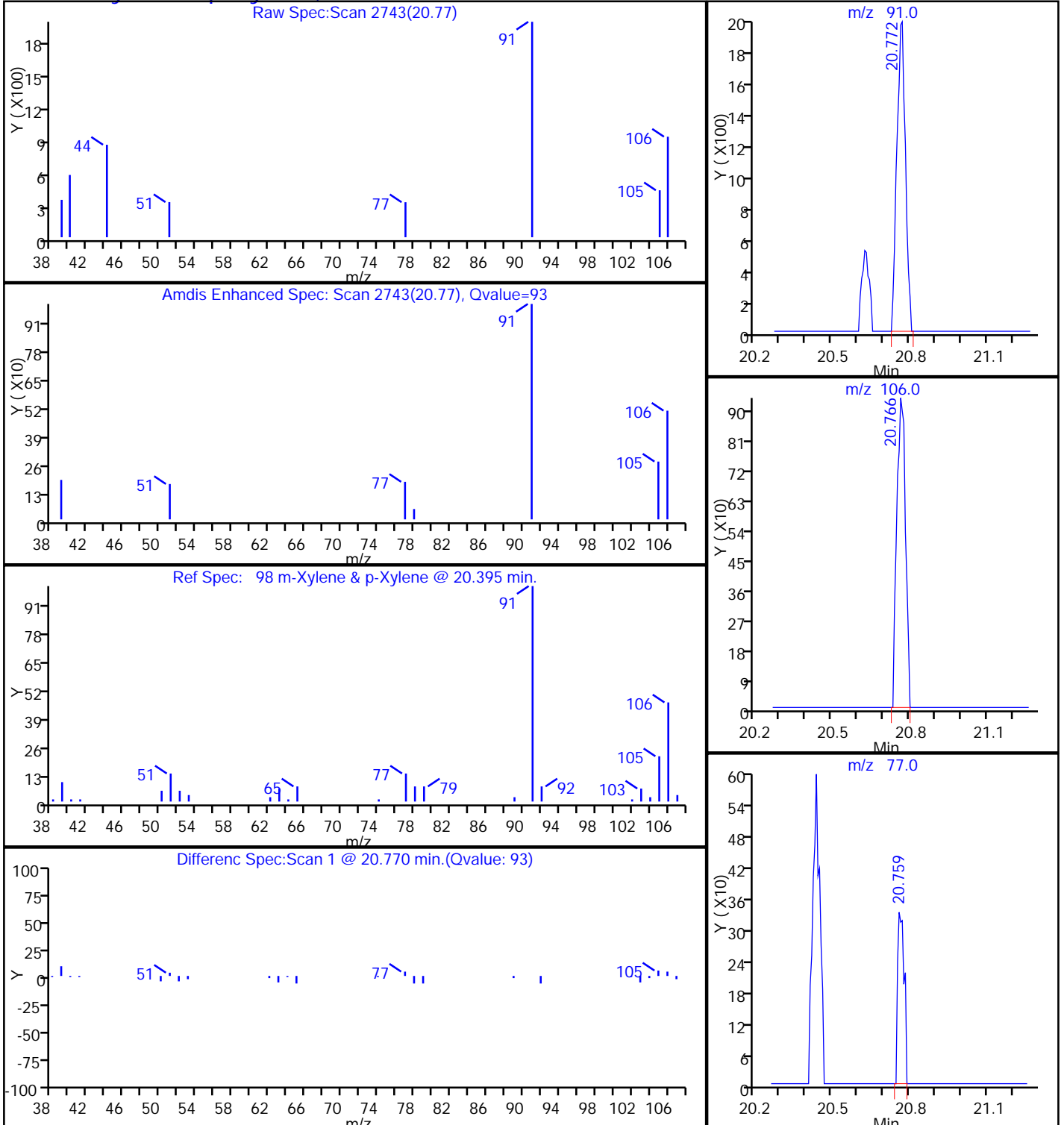
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

98 m-Xylene & p-Xylene, CAS: 179601-23-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000982 Lab Sample ID: 320-22176-13
 Matrix: Air Lab File ID: 16100318.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 03:46
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 1.7 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000982 Lab Sample ID: 320-22176-13
 Matrix: Air Lab File ID: 16100318.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 03:46
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000982 Lab Sample ID: 320-22176-13
 Matrix: Air Lab File ID: 16100318.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 03:46
 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.: 130498 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100318.D
 Lims ID: 320-22176-A-13
 Client ID: 34000982
 Sample Type: Client
 Inject. Date: 04-Oct-2016 03:46:30 ALS Bottle#: 11 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-13
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:43:43 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:43:55

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.446 | 12.438 | 0.008 | 93 | 37346 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.538 | 14.529 | 0.009 | 96 | 148350 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.443 | 20.441 | 0.002 | 89 | 130195 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.619 | 13.611 | 0.008 | 97 | 52827 | 3.97 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.694 | 17.686 | 0.008 | 98 | 88400 | 4.00 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.352 | 22.350 | 0.002 | 90 | 64619 | 3.68 | |
| 14 Propene | 41 | 4.279 | 4.258 | 0.020 | 31 | 885 | 0.0587 | |
| 31 Acetone | 43 | 7.727 | 7.706 | 0.021 | 100 | 26505 | 1.70 | |
| 47 Methylene Chloride | 49 | 8.985 | 8.977 | 0.008 | 80 | 1325 | 0.0712 | |

Reagents:

VAMSIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100318.D

Injection Date: 04-Oct-2016 03:46:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-13

Lab Sample ID: 320-22176-13

Worklist Smp#: 18

Client ID: 34000982

Purge Vol: 500.000 mL

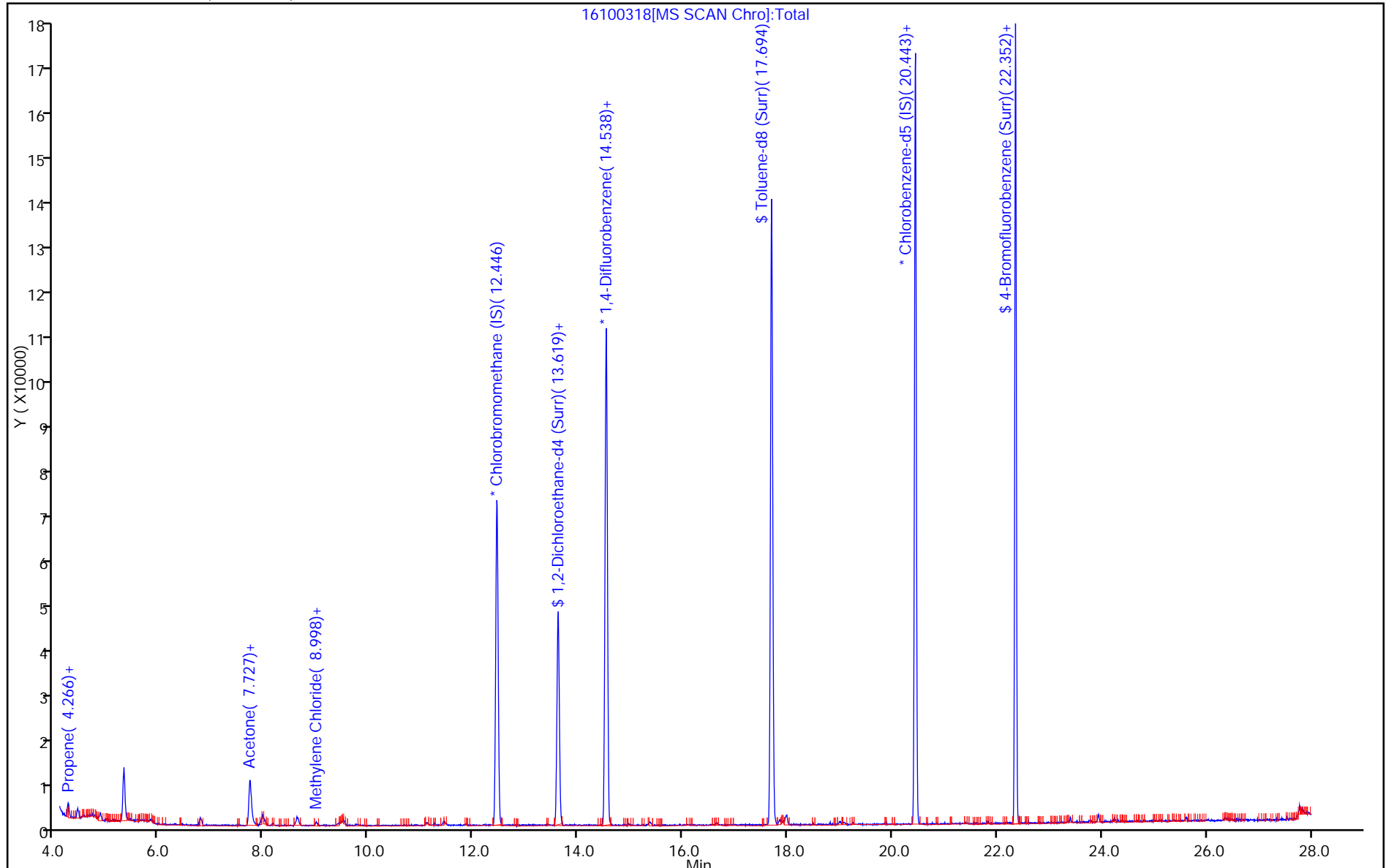
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100318.D

Injection Date: 04-Oct-2016 03:46:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-13

Lab Sample ID: 320-22176-13

Client ID: 34000982

Operator ID: KY

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

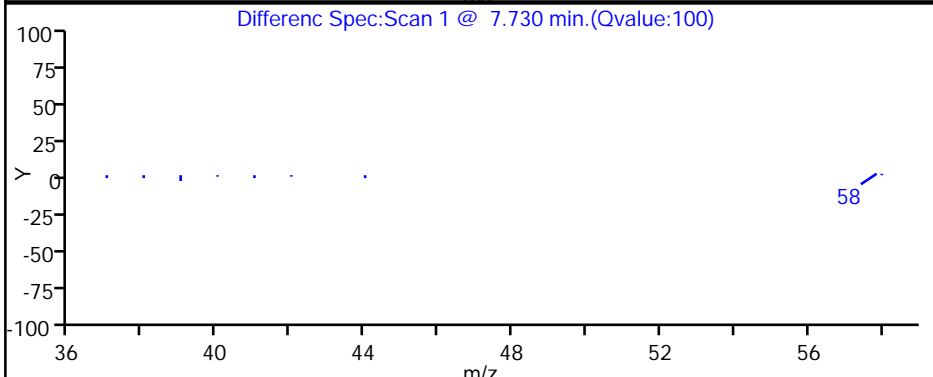
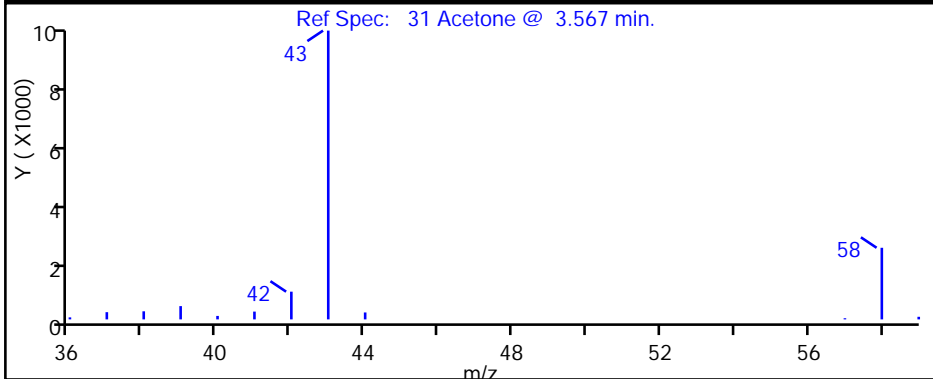
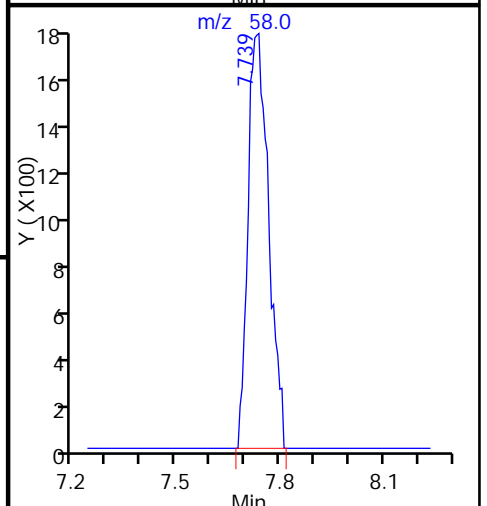
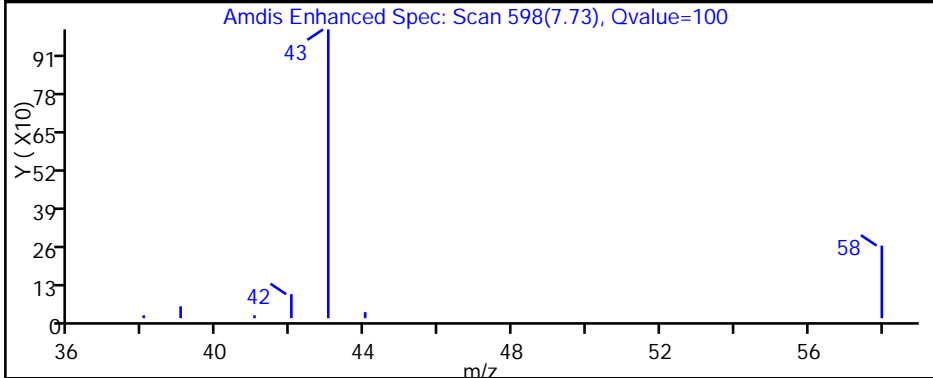
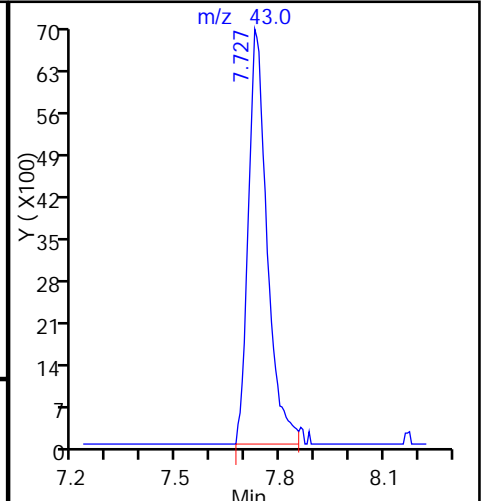
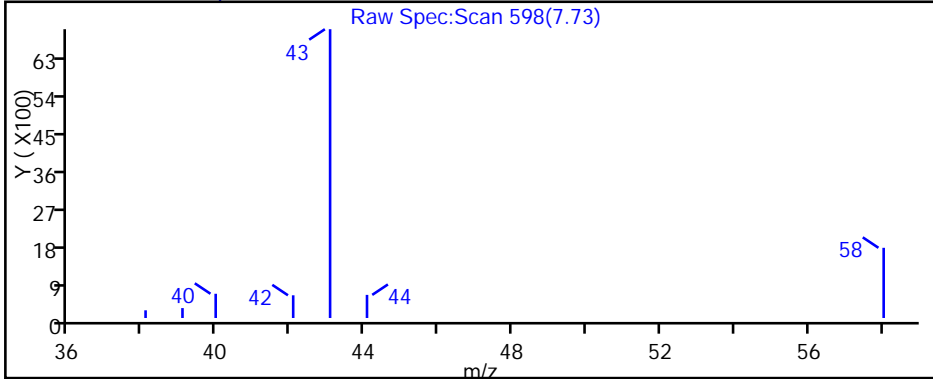
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000758 Lab Sample ID: 320-22176-15
 Matrix: Air Lab File ID: 16100321.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:10
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 1.9 | 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) | 0.29 | J | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000758 Lab Sample ID: 320-22176-15
 Matrix: Air Lab File ID: 16100321.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:10
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000758 Lab Sample ID: 320-22176-15
 Matrix: Air Lab File ID: 16100321.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:10
 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.: 130498 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) | 94 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100321.D
 Lims ID: 320-22176-A-15
 Client ID: 34000758
 Sample Type: Client
 Inject. Date: 04-Oct-2016 06:10:30 ALS Bottle#: 13 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-15
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:48:13 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:48:42

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.450 | 12.438 | 0.012 | 93 | 36178 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.536 | 14.529 | 0.007 | 97 | 145452 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.441 | 20.441 | 0.000 | 89 | 130449 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.618 | 13.611 | 0.007 | 96 | 51935 | 4.03 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.692 | 17.686 | 0.006 | 97 | 87748 | 4.05 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.356 | 22.350 | 0.006 | 93 | 65814 | 3.74 | |
| 14 Propene | 41 | 4.277 | 4.258 | 0.019 | 23 | 1321 | 0.0904 | |
| 31 Acetone | 43 | 7.731 | 7.706 | 0.025 | 99 | 28932 | 1.91 | |
| 47 Methylene Chloride | 49 | 8.996 | 8.977 | 0.019 | 78 | 1081 | 0.0600 | |
| 54 2-Butanone (MEK) | 72 | 11.434 | 11.416 | 0.018 | 94 | 362 | 0.2872 | |
| 85 Toluene | 91 | 17.844 | 17.844 | 0.000 | 95 | 813 | 0.0254 | |

Reagents:

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100321.D

Injection Date: 04-Oct-2016 06:10:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-15

Lab Sample ID: 320-22176-15

Worklist Smp#: 21

Client ID: 34000758

Purge Vol: 500.000 mL

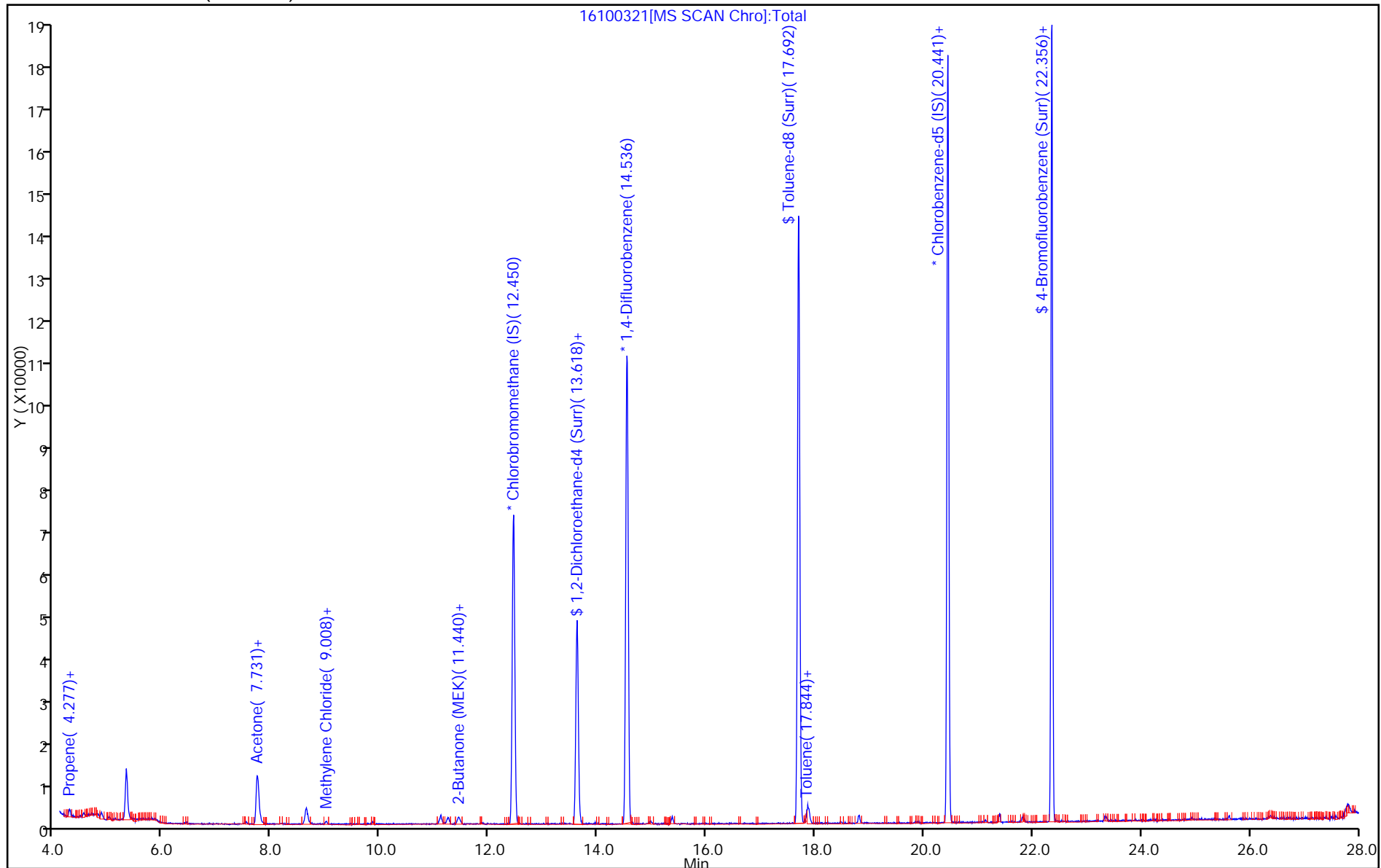
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100321.D

Injection Date: 04-Oct-2016 06:10:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-15

Lab Sample ID: 320-22176-15

Client ID: 34000758

Operator ID: KY

ALS Bottle#: 13 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

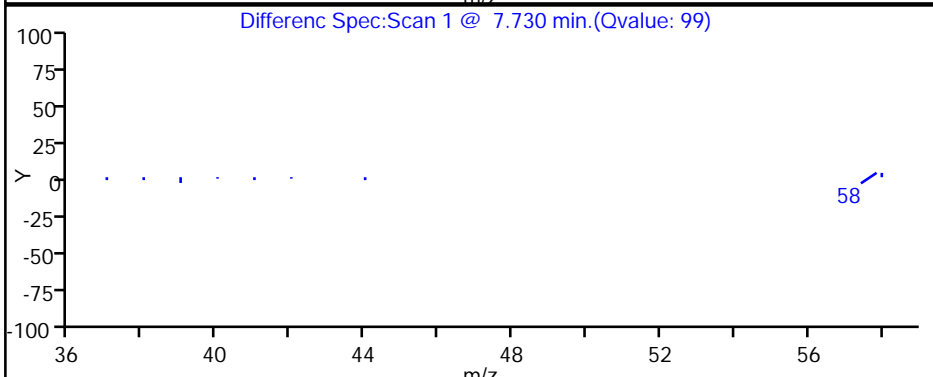
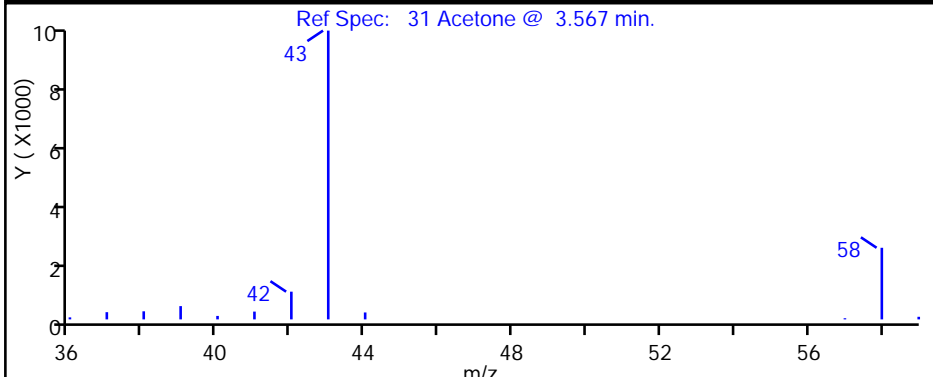
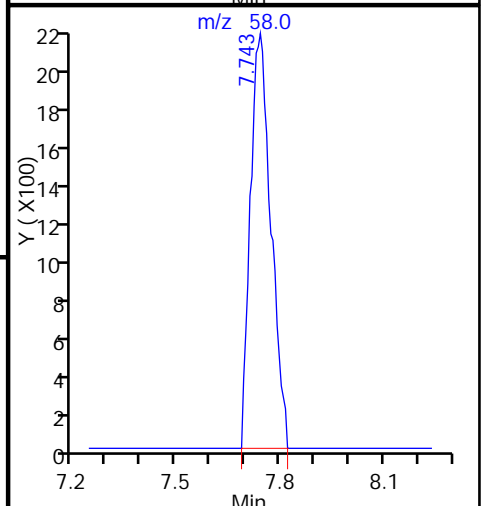
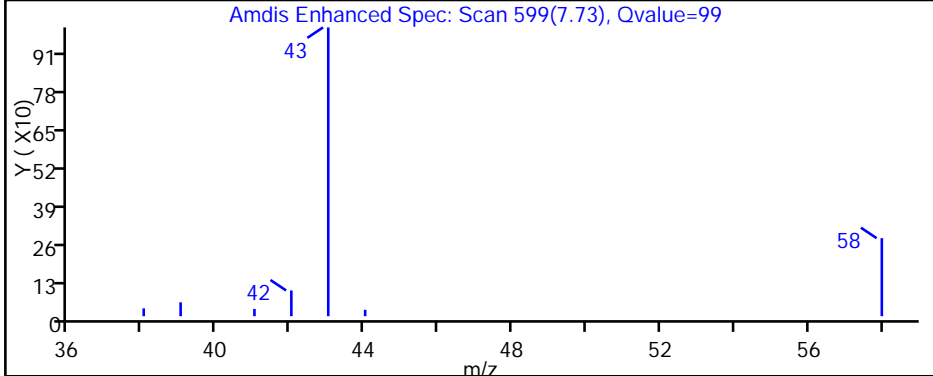
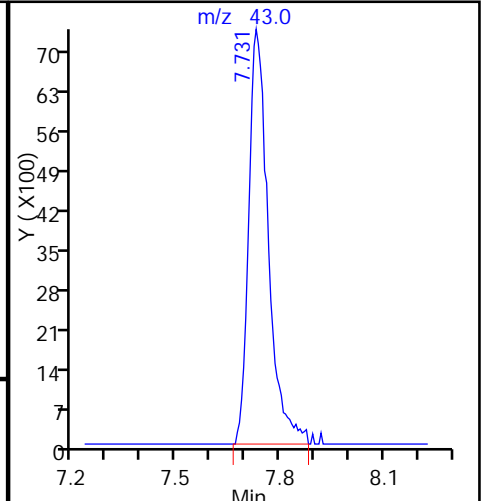
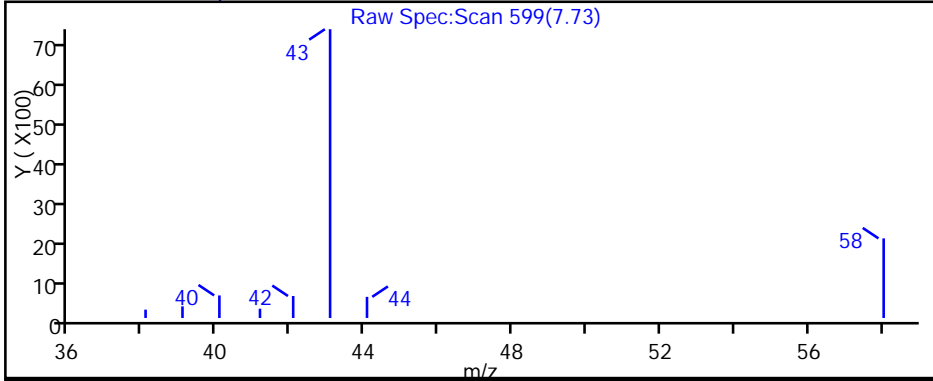
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100321.D

Injection Date: 04-Oct-2016 06:10:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-15

Lab Sample ID: 320-22176-15

Client ID: 34000758

Operator ID: KY

ALS Bottle#: 13 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

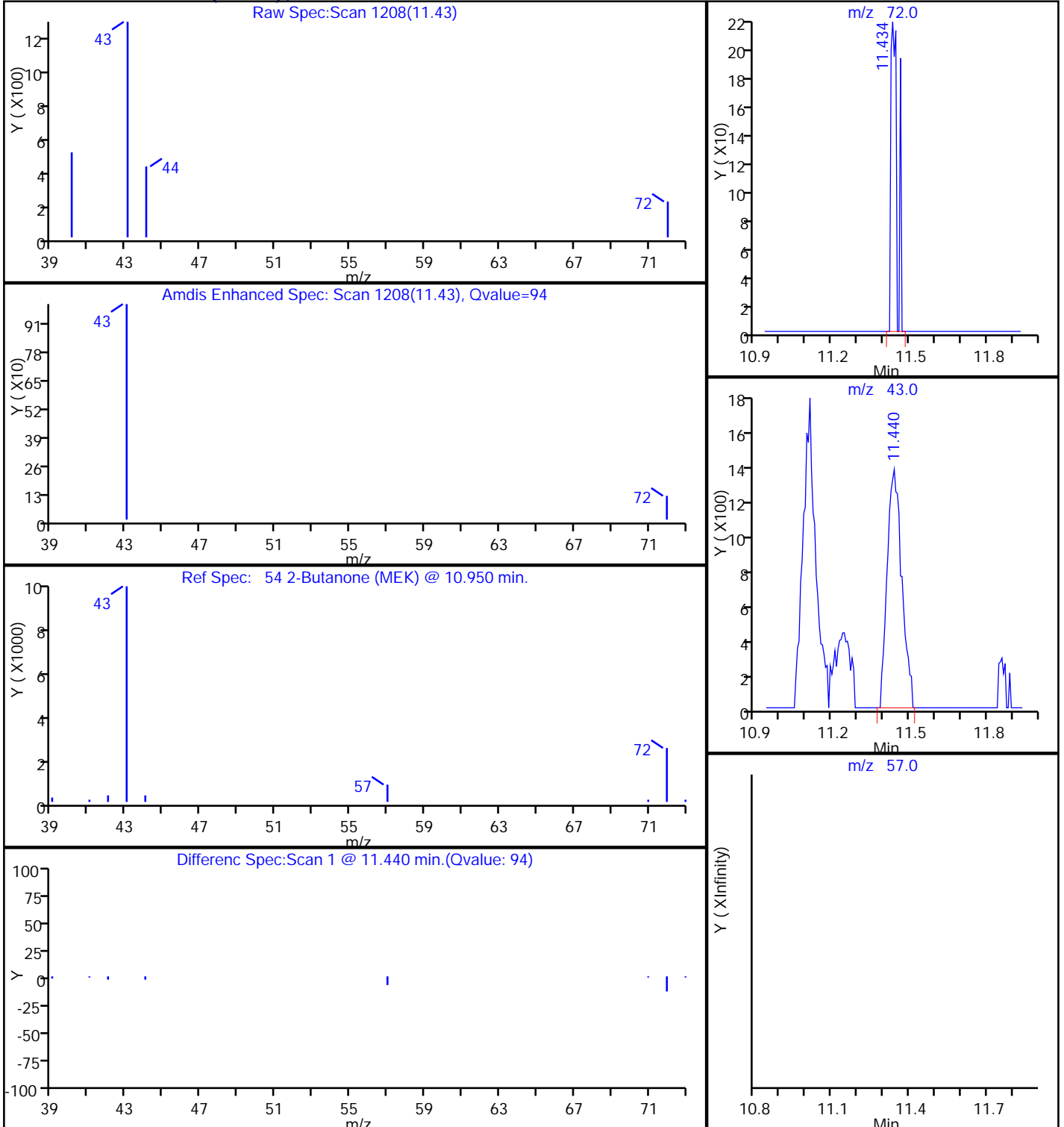
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

54 2-Butanone (MEK), CAS: 78-93-3



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000643 Lab Sample ID: 320-22176-16
 Matrix: Air Lab File ID: 16100322.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:58
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | ND | | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000643 Lab Sample ID: 320-22176-16
 Matrix: Air Lab File ID: 16100322.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:58
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000643 Lab Sample ID: 320-22176-16
 Matrix: Air Lab File ID: 16100322.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:58
 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.: 130498 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) | 93 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100322.D
 Lims ID: 320-22176-A-16
 Client ID: 34000643
 Sample Type: Client
 Inject. Date: 04-Oct-2016 06:58:30 ALS Bottle#: 14 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-16
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:47:44 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:47:44

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.438 | 12.438 | 0.000 | 93 | 36785 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.530 | 14.529 | 0.001 | 98 | 144604 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.435 | 20.441 | -0.006 | 89 | 128685 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.612 | 13.611 | 0.001 | 96 | 51041 | 3.90 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.692 | 17.686 | 0.006 | 97 | 86356 | 4.01 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.351 | 22.350 | 0.001 | 90 | 64619 | 3.72 | |
| 14 Propene | 41 | 4.271 | 4.258 | 0.013 | 28 | 752 | 0.0506 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100322.D

Injection Date: 04-Oct-2016 06:58:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-16

Lab Sample ID: 320-22176-16

Worklist Smp#: 22

Client ID: 34000643

Purge Vol: 500.000 mL

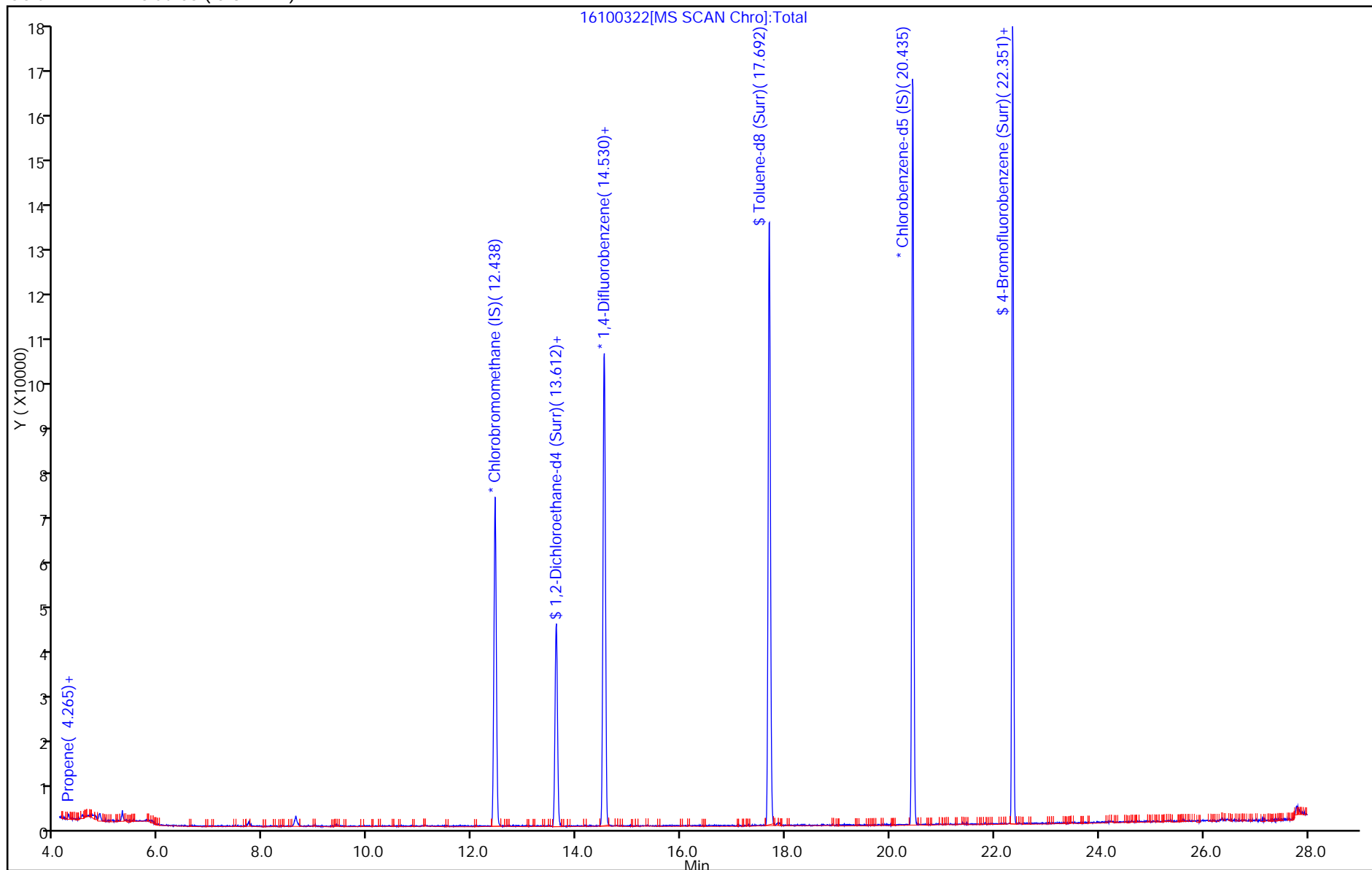
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



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

Lab Name: TestAmerica Sacramento Job No.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.21 | 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 | 0.11 |
| 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.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 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 | 0.050 |
| 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 | 0.053 | J | 0.40 | 0.051 |
| 109-99-9 | Tetrahydrofuran | ND | | 0.80 | 0.079 |
| 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.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 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) | 101 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D
 Lims ID: 320-22410-A-1
 Client ID: 34000773
 Sample Type: Client
 Inject. Date: 07-Oct-2016 08:39:30 ALS Bottle#: 4 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22410-A-1
 Misc. Info.: 500 mL
 Operator ID: KY Instrument ID: ATMS9
 Method: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\TO15_ATMS9N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 10-Oct-2016 09:33:02 Calib Date: 29-Sep-2016 01:36:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20160928-35069.b\MS9092812.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: vanommens Date: 10-Oct-2016 09:33:02

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.418 | 12.430 | -0.012 | 99 | 52380 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.517 | 14.529 | -0.012 | 95 | 222382 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.442 | 20.442 | 0.000 | 89 | 199064 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.592 | 13.604 | -0.012 | 98 | 76461 | 3.66 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.692 | -0.006 | 99 | 137759 | 3.85 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.358 | 22.358 | 0.000 | 86 | 111537 | 4.02 | |
| 14 Propene | 41 | 4.229 | 4.199 | 0.030 | 27 | 587 | 0.0394 | |
| 31 Acetone | 43 | 7.727 | 7.648 | 0.079 | 91 | 6209 | 0.2133 | |
| 93 Tetrachloroethene | 166 | 19.128 | 19.128 | 0.000 | 93 | 1416 | 0.0533 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Operator ID: KY

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Worklist Smp#: 21

Client ID: 34000773

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

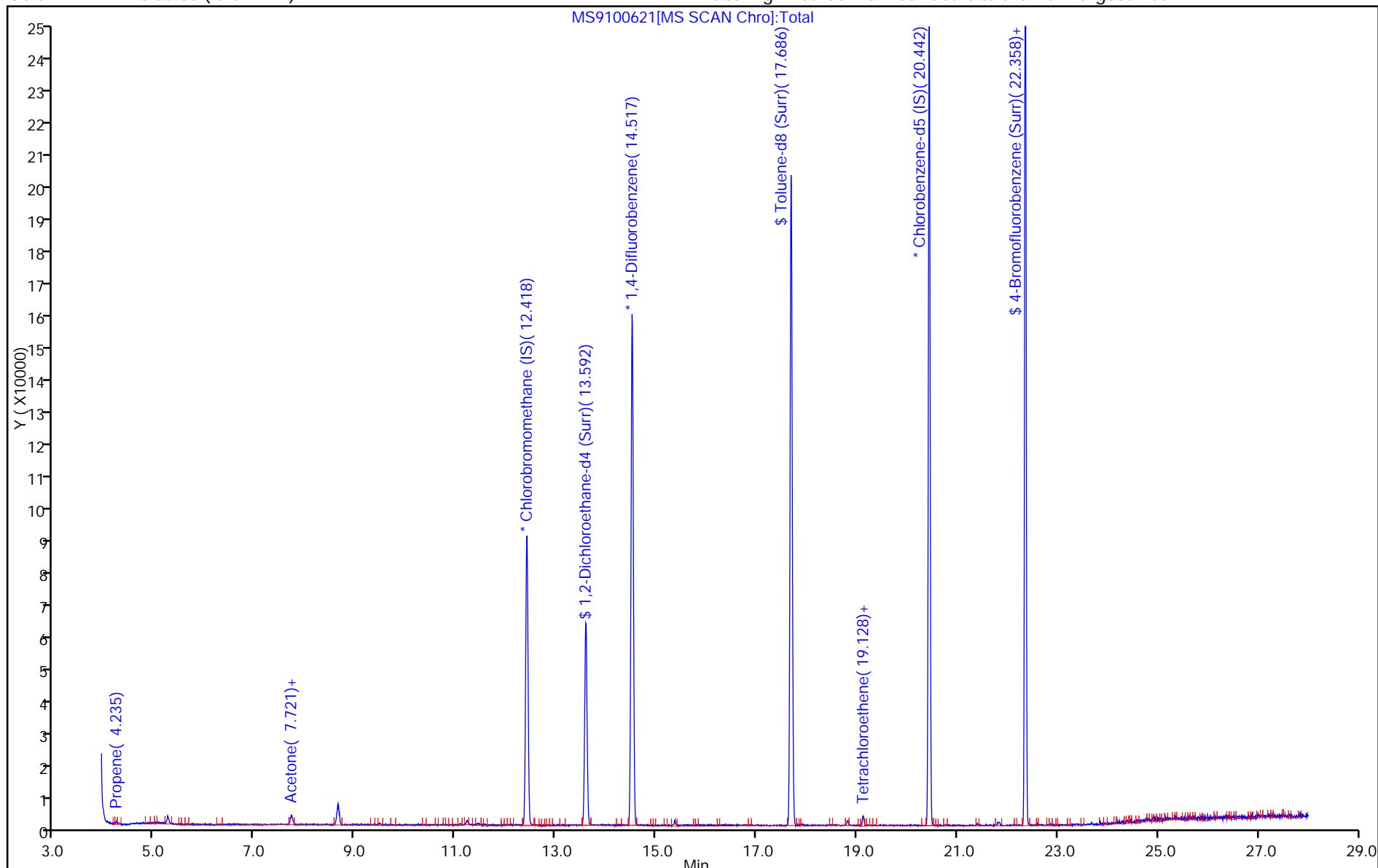
ALS Bottle#: 4

Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Client ID: 34000773

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

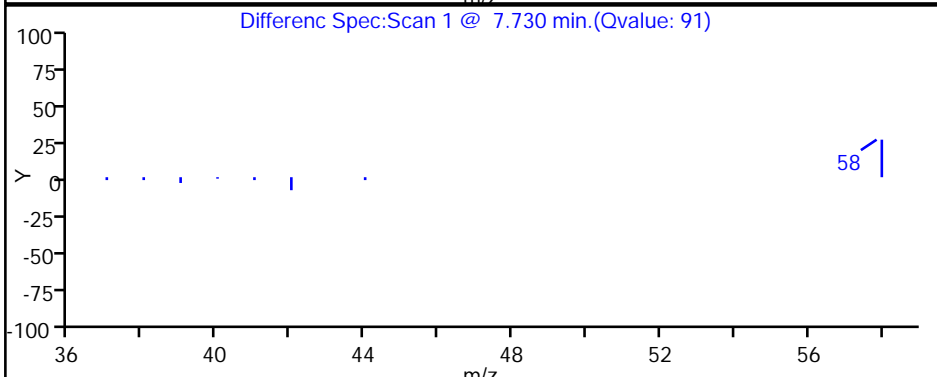
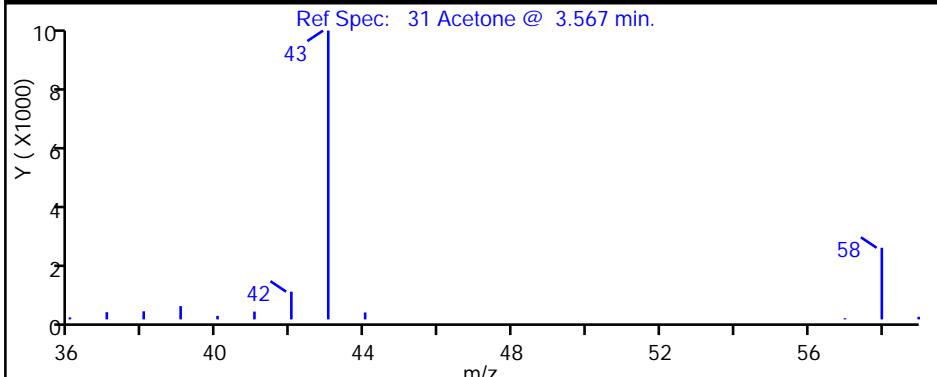
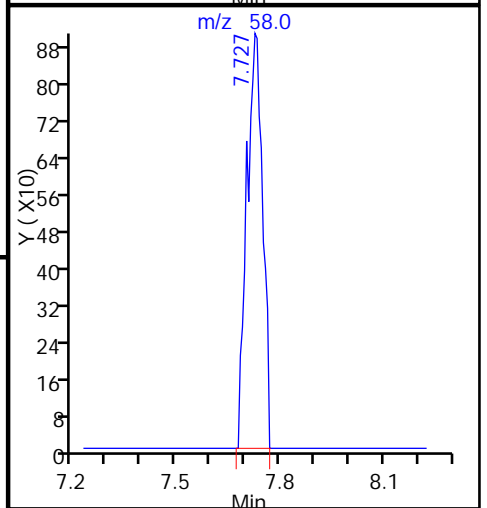
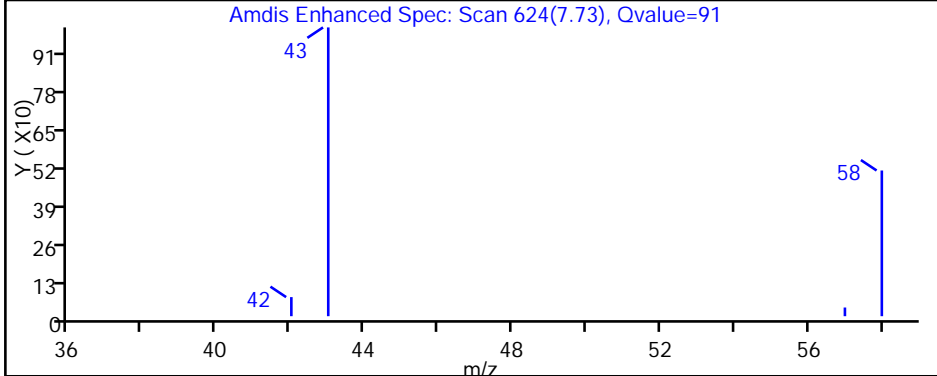
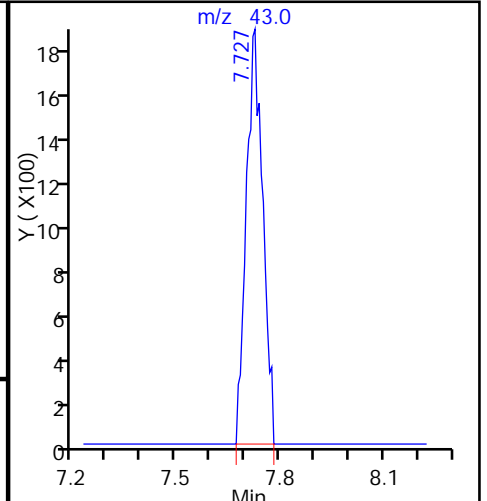
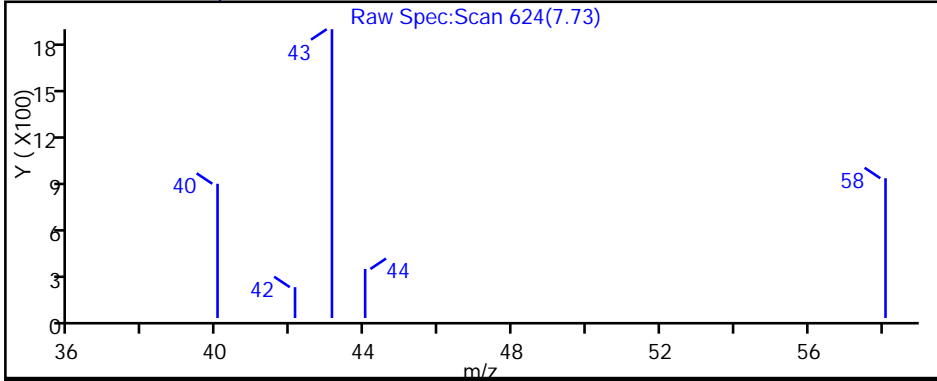
Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Client ID: 34000773

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

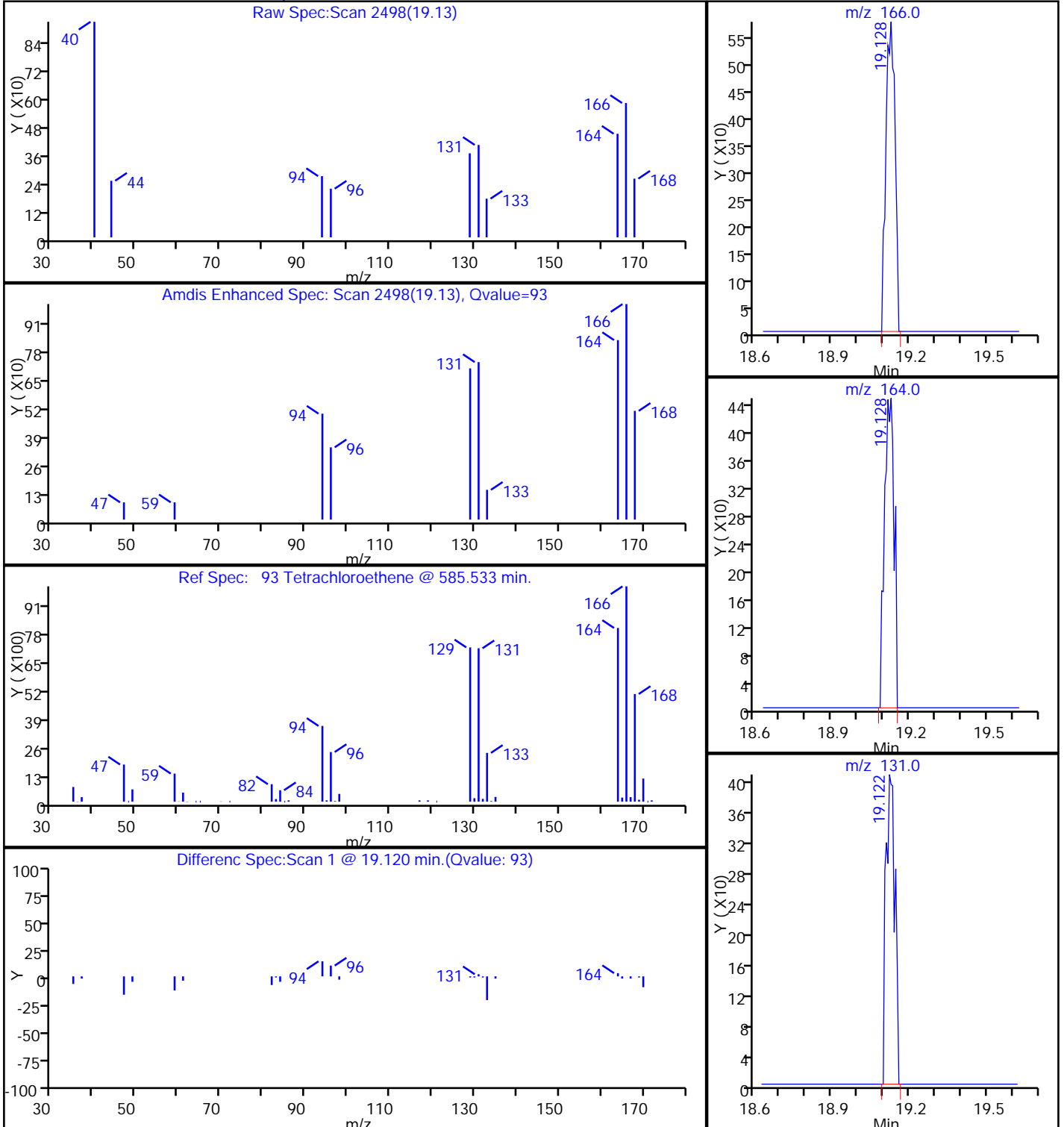
Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

93 Tetrachloroethene, CAS: 127-18-4



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

Lab Name: TestAmerica Sacramento Job No.: 320-22537-1
 SDG No.: _____
 Client Sample ID: 34001053 Lab Sample ID: 320-22537-11
 Matrix: Air Lab File ID: 16101108.D
 Analysis Method: TO-15 Date Collected: 10/07/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/11/2016 22:35
 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.: 132051 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | ND | | 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 | 0.11 |
| 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.: 320-22537-1
 SDG No.: _____
 Client Sample ID: 34001053 Lab Sample ID: 320-22537-11
 Matrix: Air Lab File ID: 16101108.D
 Analysis Method: TO-15 Date Collected: 10/07/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/11/2016 22:35
 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.: 132051 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22537-1
 SDG No.: _____
 Client Sample ID: 34001053 Lab Sample ID: 320-22537-11
 Matrix: Air Lab File ID: 16101108.D
 Analysis Method: TO-15 Date Collected: 10/07/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/11/2016 22:35
 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.: 132051 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) | 87 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 110 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161011-35543.b\16101108.D
 Lims ID: 320-22537-A-11
 Client ID: 34001053
 Sample Type: Client
 Inject. Date: 11-Oct-2016 22:35:30 ALS Bottle#: 4 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22537-A-11
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161011-35543.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 12-Oct-2016 13:41:49 Calib Date: 11-Oct-2016 18:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161011-35543.b\16101103.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: phanthasena Date: 12-Oct-2016 13:45:44

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.438 | 12.437 | 0.001 | 92 | 31072 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.530 | 14.529 | 0.001 | 96 | 117878 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.435 | 20.440 | -0.005 | 90 | 101979 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.612 | 13.605 | 0.007 | 96 | 45866 | 3.92 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.691 | -0.005 | 97 | 70033 | 4.40 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.357 | 22.350 | 0.007 | 90 | 48840 | 3.48 | |
| 14 Propene | 41 | 4.271 | 4.258 | 0.013 | 27 | 486 | 0.0395 | |
| 88 n-Octane | 43 | 17.698 | 17.697 | 0.001 | 43 | 793 | 0.0224 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161011-35543.b\16101108.D

Injection Date: 11-Oct-2016 22:35:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22537-A-11

Lab Sample ID: 320-22537-11

Worklist Smp#: 8

Client ID: 34001053

Purge Vol: 500.000 mL

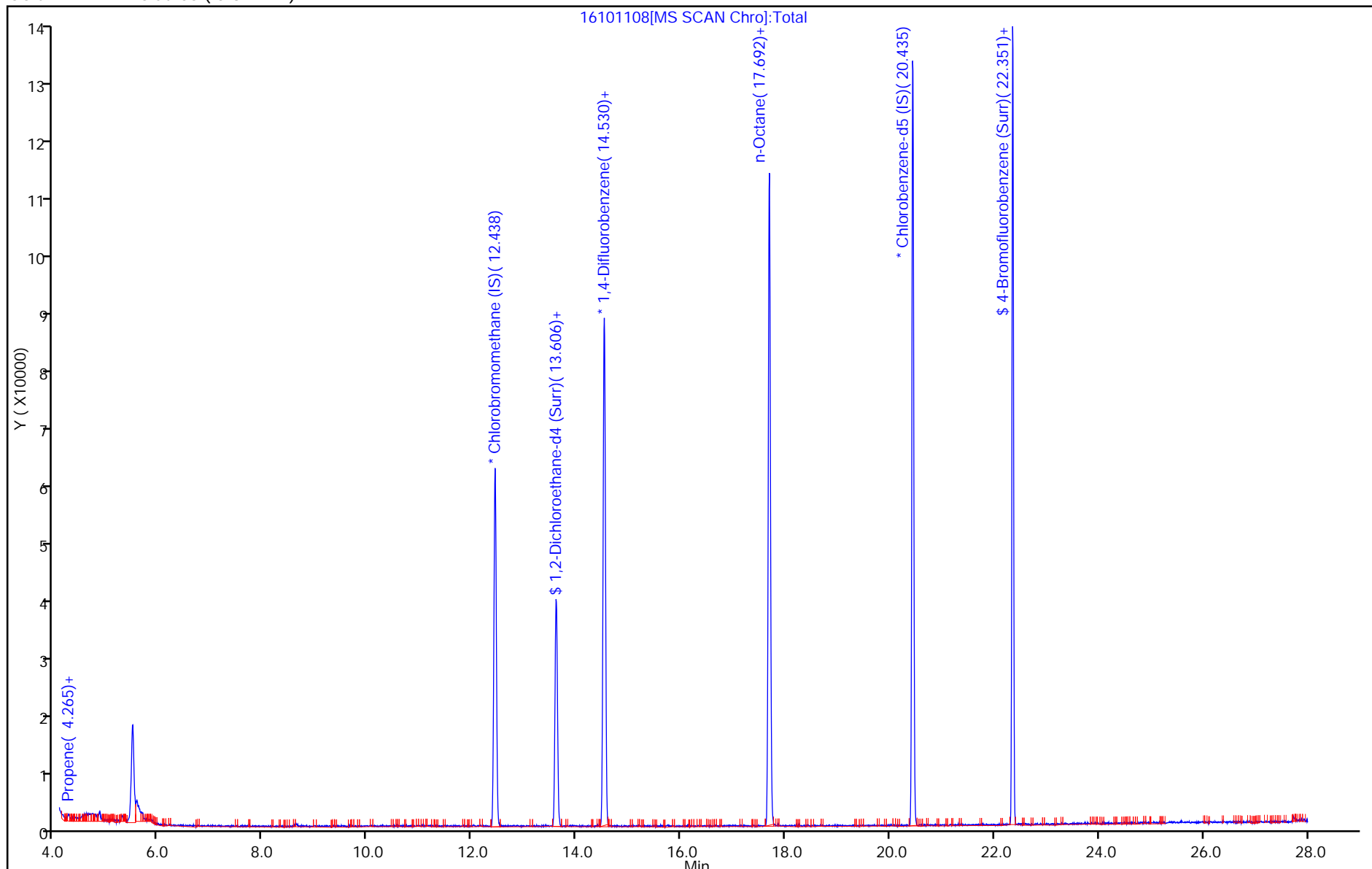
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



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: 320-22903-1

Client Project/Site: 6701 Shellmound St, Emeryville Air

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

Attn: Mr. Kyle Flory

Beth Riley

Authorized for release by:
10/26/2016 9:59:21 AM

Beth Riley, Project Manager II
(714)258-8610
beth.riley@testamericainc.com

LINKS

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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.

- 1
- 2
- 3
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Definitions/Glossary

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

TestAmerica Job ID: 320-22903-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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) |

Case Narrative

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

TestAmerica Job ID: 320-22903-1

Job ID: 320-22903-1

Laboratory: TestAmerica Sacramento

Narrative

Job Narrative
320-22903-1

Prelim Data

Receipt

The samples were received on 10/21/2016 11:45 AM; the samples arrived in good condition.

Air - GC VOA

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

Air - GC/MS VOA

Method(s) TO-15: The laboratory control sample (LCS) for analytical batch 320-133902 recovered outside control limits for the following analytes: Hexachlorobutadiene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

VOA Prep

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: 320-22903-1

Client Sample ID: PSV1-5

Lab Sample ID: 320-22903-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 160 | | 34 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| Benzene | 37 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 74 | | 5.4 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| Carbon disulfide | 12 | | 5.4 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 32 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 3.3 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| Ethylbenzene | 8.9 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 15 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| Tetrachloroethene | 4.2 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| Toluene | 110 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| Trichloroethene | 4.3 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| Vinyl chloride | 32 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| m,p-Xylene | 34 | | 5.4 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| o-Xylene | 9.1 | | 2.7 | | ppb v/v | 6.71 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 11 | | 1.0 | | % v/v | 2.01 | | D1946 | Total/NA |
| Helium | 0.30 | | 0.20 | | % v/v | 2.01 | | D1946 | Total/NA |
| Oxygen | 2.4 | | 0.40 | | % v/v | 2.01 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 380 | | 80 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| Benzene | 120 | | 8.6 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 220 | | 16 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| Carbon disulfide | 38 | | 17 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 130 | | 11 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 13 | | 11 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| Ethylbenzene | 39 | | 12 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 61 | | 11 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| Tetrachloroethene | 28 | | 18 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| Toluene | 410 | | 10 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| Trichloroethene | 23 | | 14 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| Vinyl chloride | 82 | | 6.9 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| m,p-Xylene | 150 | | 23 | | ug/m3 | 6.71 | | TO-15 | Total/NA |
| o-Xylene | 40 | | 12 | | ug/m3 | 6.71 | | TO-15 | Total/NA |

Client Sample ID: PSV1-10

Lab Sample ID: 320-22903-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Benzene | 160 | | 10 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 27 | | 20 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| Carbon disulfide | 44 | | 20 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 42 | | 10 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 61 | | 10 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| Ethylbenzene | 200 | | 10 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| Toluene | 300 | | 10 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| Trichloroethene | 12 | | 10 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| Vinyl chloride | 80 | | 10 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| m,p-Xylene | 570 | | 20 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| o-Xylene | 210 | | 10 | | ppb v/v | 25.4 | | TO-15 | Total/NA |
| Oxygen | 1.9 | | 0.41 | | % v/v | 2.03 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Benzene | 510 | | 32 | | ug/m3 | 25.4 | | 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: 320-22903-1

Client Sample ID: PSV1-10 (Continued)

Lab Sample ID: 320-22903-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|-------|---------|---|--------|-----------|
| 2-Butanone (MEK) | 78 | | 60 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| Carbon disulfide | 140 | | 63 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 170 | | 40 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 240 | | 40 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| Ethylbenzene | 860 | | 44 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| Toluene | 1100 | | 38 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| Trichloroethene | 63 | | 55 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| Vinyl chloride | 210 | | 26 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| m,p-Xylene | 2500 | | 88 | | ug/m3 | 25.4 | | TO-15 | Total/NA |
| o-Xylene | 920 | | 44 | | ug/m3 | 25.4 | | TO-15 | Total/NA |

Client Sample ID: PSV2-5

Lab Sample ID: 320-22903-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Benzene | 11 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 46 | | 0.80 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 7.3 | | 0.80 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Chlorobenzene | 0.99 | | 0.30 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,3-Dichlorobenzene | 0.41 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,1-Dichloroethane | 1.2 | | 0.30 | | ppb v/v | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 19 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 3.8 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 7.8 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 1.4 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Trichloroethene | 0.69 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 3.7 | | 0.80 | | ppb v/v | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 1.5 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 30 | | 0.80 | | ppb v/v | 1 | | TO-15 | Total/NA |
| o-Xylene | 8.7 | | 0.40 | | ppb v/v | 1 | | TO-15 | Total/NA |
| Acetone - DL | 140 | | 18 | | ppb v/v | 3.56 | | TO-15 | Total/NA |
| Toluene - DL | 72 | | 1.4 | | ppb v/v | 3.56 | | TO-15 | Total/NA |
| Vinyl chloride - DL | 120 | | 1.4 | | ppb v/v | 3.56 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 5.7 | | 0.93 | | % v/v | 1.85 | | D1946 | Total/NA |
| Oxygen | 8.7 | | 0.37 | | % v/v | 1.85 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Benzene | 37 | | 1.3 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 140 | | 2.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Carbon disulfide | 23 | | 2.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Chlorobenzene | 4.5 | | 1.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,3-Dichlorobenzene | 2.5 | | 2.4 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,1-Dichloroethane | 4.8 | | 1.2 | | ug/m3 | 1 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 75 | | 1.6 | | ug/m3 | 1 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 15 | | 1.6 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Ethylbenzene | 34 | | 1.7 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 7.1 | | 2.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| Trichloroethene | 3.7 | | 2.1 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 18 | | 3.9 | | ug/m3 | 1 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 7.2 | | 2.0 | | ug/m3 | 1 | | TO-15 | Total/NA |
| m,p-Xylene | 130 | | 3.5 | | ug/m3 | 1 | | TO-15 | Total/NA |
| o-Xylene | 38 | | 1.7 | | ug/m3 | 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: 320-22903-1

Client Sample ID: PSV2-5 (Continued)

Lab Sample ID: 320-22903-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| Acetone - DL | 330 | | 42 | | ug/m3 | 3.56 | | TO-15 | Total/NA |
| Toluene - DL | 270 | | 5.4 | | ug/m3 | 3.56 | | TO-15 | Total/NA |
| Vinyl chloride - DL | 300 | | 3.6 | | ug/m3 | 3.56 | | TO-15 | Total/NA |

Client Sample ID: PSV2-9

Lab Sample ID: 320-22903-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 100 | | 34 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| Benzene | 34 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 29 | | 5.4 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| Carbon disulfide | 16 | | 5.4 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 7.6 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 4.3 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| Ethylbenzene | 17 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 3.3 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 23 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| Toluene | 180 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 7.1 | | 5.4 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 3.0 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| Vinyl chloride | 75 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| m,p-Xylene | 63 | | 5.4 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| o-Xylene | 19 | | 2.7 | | ppb v/v | 6.72 | | TO-15 | Total/NA |
| Oxygen | 1.1 | | 0.42 | | % v/v | 2.1 | | D1946 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| Acetone | 240 | | 80 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| Benzene | 110 | | 8.6 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 86 | | 16 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| Carbon disulfide | 50 | | 17 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 30 | | 11 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 17 | | 11 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| Ethylbenzene | 73 | | 12 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 16 | | 13 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 92 | | 11 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| Toluene | 680 | | 10 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 35 | | 26 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 15 | | 13 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| Vinyl chloride | 190 | | 6.9 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| m,p-Xylene | 270 | | 23 | | ug/m3 | 6.72 | | TO-15 | Total/NA |
| o-Xylene | 83 | | 12 | | ug/m3 | 6.72 | | TO-15 | Total/NA |

Client Sample ID: PSV3-5

Lab Sample ID: 320-22903-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|----|-----|---------|---------|---|--------|-----------|
| Benzene | 54 | | 19 | | ppb v/v | 46.7 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 58 | | 37 | | ppb v/v | 46.7 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 37 | | 19 | | ppb v/v | 46.7 | | TO-15 | Total/NA |
| Ethylbenzene | 23 | | 19 | | ppb v/v | 46.7 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 21 | | 19 | | ppb v/v | 46.7 | | TO-15 | Total/NA |
| Toluene | 160 | | 19 | | ppb v/v | 46.7 | | TO-15 | Total/NA |
| Vinyl chloride | 1500 | | 19 | | ppb v/v | 46.7 | | 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: 320-22903-1

Client Sample ID: PSV3-5 (Continued)

Lab Sample ID: 320-22903-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-----|-----|---------|---------|---|--------|-----------|
| m,p-Xylene | 91 | | 37 | | ppb v/v | 46.7 | | TO-15 | Total/NA |
| o-Xylene | 26 | | 19 | | ppb v/v | 46.7 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 6.4 | | 3.0 | | % v/v | 5.98 | | D1946 | Total/NA |
| Oxygen | 2.2 | | 1.2 | | % v/v | 5.98 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Benzene | 170 | | 60 | | ug/m3 | 46.7 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 170 | | 110 | | ug/m3 | 46.7 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 150 | | 74 | | ug/m3 | 46.7 | | TO-15 | Total/NA |
| Ethylbenzene | 100 | | 81 | | ug/m3 | 46.7 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 85 | | 77 | | ug/m3 | 46.7 | | TO-15 | Total/NA |
| Toluene | 610 | | 70 | | ug/m3 | 46.7 | | TO-15 | Total/NA |
| Vinyl chloride | 3700 | | 48 | | ug/m3 | 46.7 | | TO-15 | Total/NA |
| m,p-Xylene | 400 | | 160 | | ug/m3 | 46.7 | | TO-15 | Total/NA |
| o-Xylene | 110 | | 81 | | ug/m3 | 46.7 | | TO-15 | Total/NA |

Client Sample ID: PSV4-5

Lab Sample ID: 320-22903-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 170 | | 31 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| Benzene | 34 | | 2.5 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 82 | | 5.0 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| Carbon disulfide | 23 | | 5.0 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| Ethylbenzene | 20 | | 2.5 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 4.7 | | 2.5 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 16 | | 2.5 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| Toluene | 200 | | 2.5 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 8.0 | | 5.0 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 3.4 | | 2.5 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| m,p-Xylene | 78 | | 5.0 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| o-Xylene | 22 | | 2.5 | | ppb v/v | 6.25 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 4.7 | | 1.0 | | % v/v | 2.03 | | D1946 | Total/NA |
| Oxygen | 7.4 | | 0.41 | | % v/v | 2.03 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 400 | | 74 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| Benzene | 110 | | 8.0 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 240 | | 15 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| Carbon disulfide | 73 | | 16 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| Ethylbenzene | 86 | | 11 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 23 | | 12 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 68 | | 10 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| Toluene | 740 | | 9.4 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 39 | | 25 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 17 | | 12 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| m,p-Xylene | 340 | | 22 | | ug/m3 | 6.25 | | TO-15 | Total/NA |
| o-Xylene | 95 | | 11 | | ug/m3 | 6.25 | | TO-15 | Total/NA |

Client Sample ID: PSV4-10

Lab Sample ID: 320-22903-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|---------|---------|---|--------|-----------|
| Acetone | 65 | | 23 | | ppb v/v | 4.62 | | 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: 320-22903-1

Client Sample ID: PSV4-10 (Continued)

Lab Sample ID: 320-22903-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Benzene | 41 | | 1.8 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 36 | | 3.7 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| Carbon disulfide | 120 | | 3.7 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 2.2 | | 1.8 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| Ethylbenzene | 18 | | 1.8 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 3.9 | | 1.8 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 18 | | 1.8 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| Toluene | 98 | | 1.8 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 11 | | 3.7 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 4.8 | | 1.8 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| m,p-Xylene | 62 | | 3.7 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| o-Xylene | 21 | | 1.8 | | ppb v/v | 4.62 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 3.0 | | 0.94 | | % v/v | 1.87 | | D1946 | Total/NA |
| Oxygen | 1.6 | | 0.37 | | % v/v | 1.87 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 150 | | 55 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| Benzene | 130 | | 5.9 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 100 | | 11 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| Carbon disulfide | 370 | | 12 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 8.8 | | 7.3 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| Ethylbenzene | 78 | | 8.0 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 19 | | 9.1 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| 4-Methyl-2-pentanone (MIBK) | 72 | | 7.6 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| Toluene | 370 | | 7.0 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 52 | | 18 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 24 | | 9.1 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| m,p-Xylene | 270 | | 16 | | ug/m3 | 4.62 | | TO-15 | Total/NA |
| o-Xylene | 93 | | 8.0 | | ug/m3 | 4.62 | | TO-15 | Total/NA |

Client Sample ID: PSV11-5

Lab Sample ID: 320-22903-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 330 | | 38 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| Benzene | 110 | | 3.0 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 43 | | 6.1 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| Carbon disulfide | 11 | | 6.1 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 8.1 | | 3.0 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| Ethylbenzene | 8.7 | | 3.0 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| Toluene | 69 | | 3.0 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| Trichloroethene | 4.3 | | 3.0 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| Vinyl chloride | 5.8 | | 3.0 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| m,p-Xylene | 56 | | 6.1 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| o-Xylene | 11 | | 3.0 | | ppb v/v | 7.62 | | TO-15 | Total/NA |
| Carbon Dioxide (TCD) | 2.3 | | 0.96 | | % v/v | 1.92 | | D1946 | Total/NA |
| Oxygen | 1.7 | | 0.38 | | % v/v | 1.92 | | D1946 | Total/NA |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
| Acetone | 790 | | 91 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| Benzene | 340 | | 9.7 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 130 | | 18 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| Carbon disulfide | 33 | | 19 | | ug/m3 | 7.62 | | 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: 320-22903-1

Client Sample ID: PSV11-5 (Continued)

Lab Sample ID: 320-22903-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 32 | | 12 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| Ethylbenzene | 38 | | 13 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| Toluene | 260 | | 11 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| Trichloroethene | 23 | | 16 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| Vinyl chloride | 15 | | 7.8 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| m,p-Xylene | 240 | | 26 | | ug/m3 | 7.62 | | TO-15 | Total/NA |
| o-Xylene | 48 | | 13 | | ug/m3 | 7.62 | | TO-15 | Total/NA |

Client Sample ID: PSV11-9

Lab Sample ID: 320-22903-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|------|-----|---------|---------|---|--------|-----------|
| Acetone | 97 | | 20 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| Benzene | 41 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 24 | | 3.3 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| Carbon disulfide | 26 | | 3.3 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 10 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 2.5 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| Ethylbenzene | 10 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 3.1 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| Toluene | 56 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| Trichloroethene | 3.1 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 9.3 | | 3.3 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 5.5 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| Vinyl chloride | 17 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| m,p-Xylene | 63 | | 3.3 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| o-Xylene | 13 | | 1.6 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| Naphthalene | 3.3 | | 3.3 | | ppb v/v | 4.08 | | TO-15 | Total/NA |
| Helium | 0.73 | | 0.20 | | % v/v | 1.96 | | D1946 | Total/NA |
| Oxygen | 10 | | 0.39 | | % v/v | 1.96 | | D1946 | Total/NA |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| Acetone | 230 | | 48 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| Benzene | 130 | | 5.2 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| 2-Butanone (MEK) | 72 | | 9.6 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| Carbon disulfide | 82 | | 10 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| cis-1,2-Dichloroethene | 40 | | 6.5 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| trans-1,2-Dichloroethene | 10 | | 6.5 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| Ethylbenzene | 44 | | 7.1 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| 4-Ethyltoluene | 15 | | 8.0 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| Toluene | 210 | | 6.2 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| Trichloroethene | 17 | | 8.8 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| 1,2,4-Trimethylbenzene | 46 | | 16 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| 1,3,5-Trimethylbenzene | 27 | | 8.0 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| Vinyl chloride | 43 | | 4.2 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| m,p-Xylene | 270 | | 14 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| o-Xylene | 57 | | 7.1 | | ug/m3 | 4.08 | | TO-15 | Total/NA |
| Naphthalene | 17 | | 17 | | ug/m3 | 4.08 | | 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: 320-22903-1

Client Sample ID: PSV1-5

Date Collected: 10/21/16 04:20

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

Lab Sample ID: 320-22903-1

Matrix: Air

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 160 | | 34 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Benzene | 37 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Benzyl chloride | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Bromodichloromethane | ND | | 2.0 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Bromoform | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Bromomethane | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 2-Butanone (MEK) | 74 | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Carbon disulfide | 12 | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Carbon tetrachloride | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Chlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Dibromochloromethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Chloroethane | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Chloroform | ND | | 2.0 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Chloromethane | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dibromoethane (EDB) | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichlorobenzene | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,3-Dichlorobenzene | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,4-Dichlorobenzene | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Dichlorodifluoromethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,1-Dichloroethane | ND | | 2.0 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichloroethane | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,1-Dichloroethene | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| cis-1,2-Dichloroethene | 32 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| trans-1,2-Dichloroethene | 3.3 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichloropropane | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| cis-1,3-Dichloropropene | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| trans-1,3-Dichloropropene | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Ethylbenzene | 8.9 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 4-Ethyltoluene | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Hexachlorobutadiene | ND | | 13 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 2-Hexanone | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Methylene Chloride | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 4-Methyl-2-pentanone (MIBK) | 15 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Styrene | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Tetrachloroethene | 4.2 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Toluene | 110 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,2,4-Trichlorobenzene | ND | | 13 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,1,1-Trichloroethane | ND | | 2.0 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,1,2-Trichloroethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Trichloroethene | 4.3 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,4-Dioxane | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Trichlorofluoromethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,2,4-Trimethylbenzene | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| 1,3,5-Trimethylbenzene | ND | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Vinyl acetate | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV1-5

Lab Sample ID: 320-22903-1

Date Collected: 10/21/16 04:20

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | 32 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| m,p-Xylene | 34 | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| o-Xylene | 9.1 | | 2.7 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Naphthalene | ND | | 5.4 | | ppb v/v | | | 10/22/16 01:34 | 6.71 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 380 | | 80 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Benzene | 120 | | 8.6 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Benzyl chloride | ND | | 28 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Bromodichloromethane | ND | | 13 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Bromoform | ND | | 28 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Bromomethane | ND | | 21 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 2-Butanone (MEK) | 220 | | 16 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Carbon disulfide | 38 | | 17 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Carbon tetrachloride | ND | | 34 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Chlorobenzene | ND | | 9.3 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Dibromochloromethane | ND | | 23 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Chloroethane | ND | | 14 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Chloroform | ND | | 9.8 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Chloromethane | ND | | 11 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dibromoethane (EDB) | ND | | 41 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichlorobenzene | ND | | 16 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,3-Dichlorobenzene | ND | | 16 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,4-Dichlorobenzene | ND | | 16 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Dichlorodifluoromethane | ND | | 13 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,1-Dichloroethane | ND | | 8.1 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichloroethane | ND | | 22 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,1-Dichloroethene | ND | | 21 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| cis-1,2-Dichloroethene | 130 | | 11 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| trans-1,2-Dichloroethene | 13 | | 11 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichloropropane | ND | | 12 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| cis-1,3-Dichloropropene | ND | | 12 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| trans-1,3-Dichloropropene | ND | | 12 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 19 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Ethylbenzene | 39 | | 12 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 4-Ethyltoluene | ND | | 13 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Hexachlorobutadiene | ND | | 140 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 2-Hexanone | ND | | 11 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Methylene Chloride | ND | | 9.3 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 4-Methyl-2-pentanone (MIBK) | 61 | | 11 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Styrene | ND | | 11 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,1,2,2-Tetrachloroethane | ND | | 18 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Tetrachloroethene | 28 | | 18 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Toluene | 410 | | 10 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,2,4-Trichlorobenzene | ND | | 100 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,1,1-Trichloroethane | ND | | 11 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,1,2-Trichloroethane | ND | | 15 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Trichloroethene | 23 | | 14 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,4-Dioxane | ND | | 19 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV1-5

Lab Sample ID: 320-22903-1

Date Collected: 10/21/16 04:20

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 15 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 21 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,2,4-Trimethylbenzene | ND | | 26 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| 1,3,5-Trimethylbenzene | ND | | 13 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Vinyl acetate | ND | | 19 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Vinyl chloride | 82 | | 6.9 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| m,p-Xylene | 150 | | 23 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| o-Xylene | 40 | | 12 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Naphthalene | ND | | 28 | | ug/m3 | | | 10/22/16 01:34 | 6.71 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | | | | 10/22/16 01:34 | 6.71 |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 70 - 130 | | | | | 10/22/16 01:34 | 6.71 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 10/22/16 01:34 | 6.71 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 11 | | 1.0 | | % v/v | | | 10/25/16 16:47 | 2.01 |
| Helium | 0.30 | | 0.20 | | % v/v | | | 10/25/16 16:47 | 2.01 |
| Oxygen | 2.4 | | 0.40 | | % v/v | | | 10/25/16 16:47 | 2.01 |

Client Sample ID: PSV1-10

Lab Sample ID: 320-22903-2

Date Collected: 10/21/16 04:20

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | ND | | 130 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Benzene | 160 | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Benzyl chloride | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Bromodichloromethane | ND | | 7.6 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Bromoform | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Bromomethane | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 2-Butanone (MEK) | 27 | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Carbon disulfide | 44 | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Carbon tetrachloride | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Chlorobenzene | ND | | 7.6 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Dibromochloromethane | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Chloroethane | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Chloroform | ND | | 7.6 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Chloromethane | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dibromoethane (EDB) | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichlorobenzene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,3-Dichlorobenzene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,4-Dichlorobenzene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Dichlorodifluoromethane | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,1-Dichloroethane | ND | | 7.6 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichloroethane | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV1-10

Lab Sample ID: 320-22903-2

Date Collected: 10/21/16 04:20

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| cis-1,2-Dichloroethene | 42 | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| trans-1,2-Dichloroethene | 61 | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichloropropane | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| cis-1,3-Dichloropropene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| trans-1,3-Dichloropropene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Ethylbenzene | 200 | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 4-Ethyltoluene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Hexachlorobutadiene | ND | | 51 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 2-Hexanone | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Methylene Chloride | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Styrene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Tetrachloroethene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Toluene | 300 | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,2,4-Trichlorobenzene | ND | | 51 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,1,1-Trichloroethane | ND | | 7.6 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,1,2-Trichloroethane | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Trichloroethene | 12 | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,4-Dioxane | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Trichlorofluoromethane | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,2,4-Trimethylbenzene | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| 1,3,5-Trimethylbenzene | ND | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Vinyl acetate | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Vinyl chloride | 80 | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| m,p-Xylene | 570 | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| o-Xylene | 210 | | 10 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Naphthalene | ND | | 20 | | ppb v/v | | | 10/22/16 02:24 | 25.4 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | ND | | 300 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Benzene | 510 | | 32 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Benzyl chloride | ND | | 110 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Bromodichloromethane | ND | | 51 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Bromoform | ND | | 110 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Bromomethane | ND | | 79 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 2-Butanone (MEK) | 78 | | 60 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Carbon disulfide | 140 | | 63 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Carbon tetrachloride | ND | | 130 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Chlorobenzene | ND | | 35 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Dibromochloromethane | ND | | 87 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Chloroethane | ND | | 54 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Chloroform | ND | | 37 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Chloromethane | ND | | 42 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dibromoethane (EDB) | ND | | 160 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichlorobenzene | ND | | 61 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV1-10

Lab Sample ID: 320-22903-2

Date Collected: 10/21/16 04:20

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|-------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 61 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,4-Dichlorobenzene | ND | | 61 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Dichlorodifluoromethane | ND | | 50 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,1-Dichloroethane | ND | | 31 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichloroethane | ND | | 82 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,1-Dichloroethene | ND | | 81 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| cis-1,2-Dichloroethene | 170 | | 40 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| trans-1,2-Dichloroethene | 240 | | 40 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichloropropane | ND | | 47 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| cis-1,3-Dichloropropene | ND | | 46 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| trans-1,3-Dichloropropene | ND | | 46 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 71 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Ethylbenzene | 860 | | 44 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 4-Ethyltoluene | ND | | 50 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Hexachlorobutadiene | ND | | 540 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 2-Hexanone | ND | | 42 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Methylene Chloride | ND | | 35 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 42 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Styrene | ND | | 43 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,1,2,2-Tetrachloroethane | ND | | 70 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Tetrachloroethene | ND | | 69 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Toluene | 1100 | | 38 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,2,4-Trichlorobenzene | ND | | 380 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,1,1-Trichloroethane | ND | | 42 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,1,2-Trichloroethane | ND | | 55 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Trichloroethene | 63 | | 55 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,4-Dioxane | ND | | 73 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Trichlorofluoromethane | ND | | 57 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 78 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,2,4-Trimethylbenzene | ND | | 100 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| 1,3,5-Trimethylbenzene | ND | | 50 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Vinyl acetate | ND | | 72 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Vinyl chloride | 210 | | 26 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| m,p-Xylene | 2500 | | 88 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| o-Xylene | 920 | | 44 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |
| Naphthalene | ND | | 110 | | ug/m3 | | | 10/22/16 02:24 | 25.4 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | 10/22/16 02:24 | 25.4 |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 70 - 130 | | 10/22/16 02:24 | 25.4 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | 10/22/16 02:24 | 25.4 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 1.0 | | % v/v | | | 10/25/16 16:58 | 2.03 |
| Helium | ND | | 0.20 | | % v/v | | | 10/25/16 16:58 | 2.03 |
| Oxygen | 1.9 | | 0.41 | | % v/v | | | 10/25/16 16:58 | 2.03 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV2-5

Lab Sample ID: 320-22903-3

Date Collected: 10/21/16 04:42

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Benzene | 11 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Benzyl chloride | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Bromodichloromethane | ND | | 0.30 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Bromoform | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Bromomethane | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 2-Butanone (MEK) | 46 | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Carbon disulfide | 7.3 | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Carbon tetrachloride | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Chlorobenzene | 0.99 | | 0.30 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Dibromochloromethane | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Chloroethane | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Chloroform | ND | | 0.30 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Chloromethane | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,3-Dichlorobenzene | 0.41 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Dichlorodifluoromethane | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,1-Dichloroethane | 1.2 | | 0.30 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,2-Dichloroethane | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,1-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| cis-1,2-Dichloroethene | 19 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| trans-1,2-Dichloroethene | 3.8 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,2-Dichloropropane | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Ethylbenzene | 7.8 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 4-Ethyltoluene | 1.4 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 2-Hexanone | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Methylene Chloride | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Styrene | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Tetrachloroethene | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.30 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Trichloroethene | 0.69 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,4-Dioxane | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Trichlorofluoromethane | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,2,4-Trimethylbenzene | 3.7 | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| 1,3,5-Trimethylbenzene | 1.5 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Vinyl acetate | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| m,p-Xylene | 30 | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| o-Xylene | 8.7 | | 0.40 | | ppb v/v | | | 10/22/16 03:18 | 1 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV2-5

Lab Sample ID: 320-22903-3

Date Collected: 10/21/16 04:42

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|------------|-----------|------|-----|---------|---|----------|----------------|---------|
| Naphthalene | ND | | 0.80 | | ppb v/v | | | 10/22/16 03:18 | 1 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | 37 | | 1.3 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Benzyl chloride | ND | | 4.1 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Bromoform | ND | | 4.1 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Bromomethane | ND | | 3.1 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 2-Butanone (MEK) | 140 | | 2.4 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Carbon disulfide | 23 | | 2.5 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Chlorobenzene | 4.5 | | 1.4 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Dibromochloromethane | ND | | 3.4 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Chloroethane | ND | | 2.1 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Chloroform | ND | | 1.5 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Chloromethane | ND | | 1.7 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,3-Dichlorobenzene | 2.5 | | 2.4 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,1-Dichloroethane | 4.8 | | 1.2 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,1-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| cis-1,2-Dichloroethene | 75 | | 1.6 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| trans-1,2-Dichloroethene | 15 | | 1.6 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,2-Dichloropropane | ND | | 1.8 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.8 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Ethylbenzene | 34 | | 1.7 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 4-Ethyltoluene | 7.1 | | 2.0 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Hexachlorobutadiene | ND | | 21 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 2-Hexanone | ND | | 1.6 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Methylene Chloride | ND | | 1.4 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Styrene | ND | | 1.7 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Tetrachloroethene | ND | | 2.7 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Trichloroethene | 3.7 | | 2.1 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,4-Dioxane | ND | | 2.9 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Trichlorofluoromethane | ND | | 2.2 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,2,4-Trimethylbenzene | 18 | | 3.9 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| 1,3,5-Trimethylbenzene | 7.2 | | 2.0 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Vinyl acetate | ND | | 2.8 | | ug/m3 | | | 10/22/16 03:18 | 1 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV2-5

Lab Sample ID: 320-22903-3

Date Collected: 10/21/16 04:42

Matrix: Air

Date Received: 10/21/16 11:45

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 | 130 | | 3.5 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| o-Xylene | 38 | | 1.7 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Naphthalene | ND | | 4.2 | | ug/m3 | | | 10/22/16 03:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | | | 10/22/16 03:18 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 70 - 130 | | | | | 10/22/16 03:18 | 1 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | | | | 10/22/16 03:18 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------------|-------------|----------|-----------------|-----------------|----------------|
| Acetone | 140 | | 18 | | ppb v/v | | | 10/22/16 09:11 | 3.56 |
| Toluene | 72 | | 1.4 | | ppb v/v | | | 10/22/16 09:11 | 3.56 |
| Vinyl chloride | 120 | | 1.4 | | ppb v/v | | | 10/22/16 09:11 | 3.56 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 330 | | 42 | | ug/m3 | | | 10/22/16 09:11 | 3.56 |
| Toluene | 270 | | 5.4 | | ug/m3 | | | 10/22/16 09:11 | 3.56 |
| Vinyl chloride | 300 | | 3.6 | | ug/m3 | | | 10/22/16 09:11 | 3.56 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | | | | 10/22/16 09:11 | 3.56 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 70 - 130 | | | | | 10/22/16 09:11 | 3.56 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | | | | 10/22/16 09:11 | 3.56 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 5.7 | | 0.93 | | % v/v | | | 10/25/16 17:05 | 1.85 |
| Helium | ND | | 0.19 | | % v/v | | | 10/25/16 17:05 | 1.85 |
| Oxygen | 8.7 | | 0.37 | | % v/v | | | 10/25/16 17:05 | 1.85 |

Client Sample ID: PSV2-9

Lab Sample ID: 320-22903-4

Date Collected: 10/21/16 04:42

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 100 | | 34 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Benzene | 34 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Benzyl chloride | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Bromodichloromethane | ND | | 2.0 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Bromoform | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Bromomethane | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 2-Butanone (MEK) | 29 | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Carbon disulfide | 16 | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Carbon tetrachloride | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Chlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Dibromochloromethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Chloroethane | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV2-9

Lab Sample ID: 320-22903-4

Date Collected: 10/21/16 04:42

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Chloroform | ND | | 2.0 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Chloromethane | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dibromoethane (EDB) | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichlorobenzene | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,3-Dichlorobenzene | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,4-Dichlorobenzene | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Dichlorodifluoromethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,1-Dichloroethane | ND | | 2.0 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichloroethane | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,1-Dichloroethene | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| cis-1,2-Dichloroethene | 7.6 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| trans-1,2-Dichloroethene | 4.3 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichloropropane | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| cis-1,3-Dichloropropene | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| trans-1,3-Dichloropropene | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Ethylbenzene | 17 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 4-Ethyltoluene | 3.3 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Hexachlorobutadiene | ND | | 13 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 2-Hexanone | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Methylene Chloride | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 4-Methyl-2-pentanone (MIBK) | 23 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Styrene | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Tetrachloroethene | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Toluene | 180 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,2,4-Trichlorobenzene | ND | | 13 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,1,1-Trichloroethane | ND | | 2.0 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,1,2-Trichloroethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Trichloroethene | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,4-Dioxane | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Trichlorofluoromethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,2,4-Trimethylbenzene | 7.1 | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| 1,3,5-Trimethylbenzene | 3.0 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Vinyl acetate | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Vinyl chloride | 75 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| m,p-Xylene | 63 | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| o-Xylene | 19 | | 2.7 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Naphthalene | ND | | 5.4 | | ppb v/v | | | 10/22/16 04:08 | 6.72 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 240 | | 80 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Benzene | 110 | | 8.6 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Benzyl chloride | ND | | 28 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Bromodichloromethane | ND | | 14 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Bromoform | ND | | 28 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Bromomethane | ND | | 21 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 2-Butanone (MEK) | 86 | | 16 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV2-9

Lab Sample ID: 320-22903-4

Date Collected: 10/21/16 04:42

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Carbon disulfide | 50 | | 17 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Carbon tetrachloride | ND | | 34 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Chlorobenzene | ND | | 9.3 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Dibromochloromethane | ND | | 23 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Chloroethane | ND | | 14 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Chloroform | ND | | 9.8 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Chloromethane | ND | | 11 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dibromoethane (EDB) | ND | | 41 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichlorobenzene | ND | | 16 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,3-Dichlorobenzene | ND | | 16 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,4-Dichlorobenzene | ND | | 16 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Dichlorodifluoromethane | ND | | 13 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,1-Dichloroethane | ND | | 8.2 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichloroethane | ND | | 22 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,1-Dichloroethene | ND | | 21 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| cis-1,2-Dichloroethene | 30 | | 11 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| trans-1,2-Dichloroethene | 17 | | 11 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichloropropane | ND | | 12 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| cis-1,3-Dichloropropene | ND | | 12 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| trans-1,3-Dichloropropene | ND | | 12 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 19 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Ethylbenzene | 73 | | 12 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 4-Ethyltoluene | 16 | | 13 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Hexachlorobutadiene | ND | | 140 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 2-Hexanone | ND | | 11 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Methylene Chloride | ND | | 9.3 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 4-Methyl-2-pentanone (MIBK) | 92 | | 11 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Styrene | ND | | 11 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,1,2,2-Tetrachloroethane | ND | | 18 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Tetrachloroethene | ND | | 18 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Toluene | 680 | | 10 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,2,4-Trichlorobenzene | ND | | 100 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,1,1-Trichloroethane | ND | | 11 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,1,2-Trichloroethane | ND | | 15 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Trichloroethene | ND | | 14 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,4-Dioxane | ND | | 19 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Trichlorofluoromethane | ND | | 15 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 21 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,2,4-Trimethylbenzene | 35 | | 26 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| 1,3,5-Trimethylbenzene | 15 | | 13 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Vinyl acetate | ND | | 19 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Vinyl chloride | 190 | | 6.9 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| m,p-Xylene | 270 | | 23 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| o-Xylene | 83 | | 12 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |
| Naphthalene | ND | | 28 | | ug/m3 | | | 10/22/16 04:08 | 6.72 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 | | 10/22/16 04:08 | 6.72 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 130 | | 10/22/16 04:08 | 6.72 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV2-9

Lab Sample ID: 320-22903-4

Date Collected: 10/21/16 04:42

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | 10/22/16 04:08 | 6.72 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 1.1 | | % v/v | | | 10/25/16 17:12 | 2.1 |
| Helium | ND | | 0.21 | | % v/v | | | 10/25/16 17:12 | 2.1 |
| Oxygen | 1.1 | | 0.42 | | % v/v | | | 10/25/16 17:12 | 2.1 |

Client Sample ID: PSV3-5

Lab Sample ID: 320-22903-5

Date Collected: 10/21/16 05:01

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | ND | | 230 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Benzene | 54 | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Benzyl chloride | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Bromodichloromethane | ND | | 14 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Bromoform | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Bromomethane | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 2-Butanone (MEK) | 58 | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Carbon disulfide | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Carbon tetrachloride | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Chlorobenzene | ND | | 14 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Dibromochloromethane | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Chloroethane | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Chloroform | ND | | 14 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Chloromethane | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dibromoethane (EDB) | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichlorobenzene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,3-Dichlorobenzene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,4-Dichlorobenzene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Dichlorodifluoromethane | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,1-Dichloroethane | ND | | 14 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichloroethane | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,1-Dichloroethene | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| cis-1,2-Dichloroethene | 37 | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| trans-1,2-Dichloroethene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichloropropane | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| cis-1,3-Dichloropropene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| trans-1,3-Dichloropropene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Ethylbenzene | 23 | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 4-Ethyltoluene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Hexachlorobutadiene | ND | | 93 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 2-Hexanone | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Methylene Chloride | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV3-5

Lab Sample ID: 320-22903-5

Date Collected: 10/21/16 05:01

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|-------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 4-Methyl-2-pentanone (MIBK) | 21 | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Styrene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,1,2,2-Tetrachloroethane | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Tetrachloroethene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Toluene | 160 | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,2,4-Trichlorobenzene | ND | | 93 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,1,1-Trichloroethane | ND | | 14 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,1,2-Trichloroethane | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Trichloroethene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,4-Dioxane | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Trichlorofluoromethane | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,2,4-Trimethylbenzene | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| 1,3,5-Trimethylbenzene | ND | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Vinyl acetate | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Vinyl chloride | 1500 | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| m,p-Xylene | 91 | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| o-Xylene | 26 | | 19 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Naphthalene | ND | | 37 | | ppb v/v | | | 10/22/16 04:59 | 46.7 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | ND | | 550 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Benzene | 170 | | 60 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Benzyl chloride | ND | | 190 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Bromodichloromethane | ND | | 94 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Bromoform | ND | | 190 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Bromomethane | ND | | 150 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 2-Butanone (MEK) | 170 | | 110 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Carbon disulfide | ND | | 120 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Carbon tetrachloride | ND | | 240 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Chlorobenzene | ND | | 64 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Dibromochloromethane | ND | | 160 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Chloroethane | ND | | 99 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Chloroform | ND | | 68 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Chloromethane | ND | | 77 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dibromoethane (EDB) | ND | | 290 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichlorobenzene | ND | | 110 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,3-Dichlorobenzene | ND | | 110 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,4-Dichlorobenzene | ND | | 110 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Dichlorodifluoromethane | ND | | 92 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,1-Dichloroethane | ND | | 57 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichloroethane | ND | | 150 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,1-Dichloroethene | ND | | 150 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| cis-1,2-Dichloroethene | 150 | | 74 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| trans-1,2-Dichloroethene | ND | | 74 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichloropropane | ND | | 86 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| cis-1,3-Dichloropropene | ND | | 85 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| trans-1,3-Dichloropropene | ND | | 85 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 130 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV3-5

Lab Sample ID: 320-22903-5

Date Collected: 10/21/16 05:01

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Ethylbenzene | 100 | | 81 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 4-Ethyltoluene | ND | | 92 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Hexachlorobutadiene | ND | | 1000 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 2-Hexanone | ND | | 77 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Methylene Chloride | ND | | 65 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 4-Methyl-2-pentanone (MIBK) | 85 | | 77 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Styrene | ND | | 80 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,1,2,2-Tetrachloroethane | ND | | 130 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Tetrachloroethene | ND | | 130 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Toluene | 610 | | 70 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,2,4-Trichlorobenzene | ND | | 690 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,1,1-Trichloroethane | ND | | 76 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,1,2-Trichloroethane | ND | | 100 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Trichloroethene | ND | | 100 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,4-Dioxane | ND | | 130 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Trichlorofluoromethane | ND | | 100 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 140 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,2,4-Trimethylbenzene | ND | | 180 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| 1,3,5-Trimethylbenzene | ND | | 92 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Vinyl acetate | ND | | 130 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Vinyl chloride | 3700 | | 48 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| m,p-Xylene | 400 | | 160 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| o-Xylene | 110 | | 81 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Naphthalene | ND | | 200 | | ug/m3 | | | 10/22/16 04:59 | 46.7 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | | | 10/22/16 04:59 | 46.7 |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 70 - 130 | | | | | 10/22/16 04:59 | 46.7 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | | | | 10/22/16 04:59 | 46.7 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 6.4 | | 3.0 | | % v/v | | | 10/25/16 17:20 | 5.98 |
| Helium | ND | | 0.60 | | % v/v | | | 10/25/16 17:20 | 5.98 |
| Oxygen | 2.2 | | 1.2 | | % v/v | | | 10/25/16 17:20 | 5.98 |

Client Sample ID: PSV4-5

Lab Sample ID: 320-22903-6

Date Collected: 10/21/16 05:23

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 170 | | 31 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Benzene | 34 | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Benzyl chloride | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Bromodichloromethane | ND | | 1.9 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Bromoform | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Bromomethane | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV4-5

Lab Sample ID: 320-22903-6

Date Collected: 10/21/16 05:23

Matrix: Air

Date Received: 10/21/16 11:45

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) | 82 | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Carbon disulfide | 23 | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Carbon tetrachloride | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Chlorobenzene | ND | | 1.9 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Dibromochloromethane | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Chloroethane | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Chloroform | ND | | 1.9 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Chloromethane | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dibromoethane (EDB) | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,3-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,4-Dichlorobenzene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Dichlorodifluoromethane | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,1-Dichloroethane | ND | | 1.9 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichloroethane | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,1-Dichloroethene | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| cis-1,2-Dichloroethene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| trans-1,2-Dichloroethene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichloropropane | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| cis-1,3-Dichloropropene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| trans-1,3-Dichloropropene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Ethylbenzene | 20 | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 4-Ethyltoluene | 4.7 | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Hexachlorobutadiene | ND | | 13 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 2-Hexanone | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Methylene Chloride | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 4-Methyl-2-pentanone (MIBK) | 16 | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Styrene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Tetrachloroethene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Toluene | 200 | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,2,4-Trichlorobenzene | ND | | 13 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,1,1-Trichloroethane | ND | | 1.9 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,1,2-Trichloroethane | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Trichloroethene | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,4-Dioxane | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Trichlorofluoromethane | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,2,4-Trimethylbenzene | 8.0 | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| 1,3,5-Trimethylbenzene | 3.4 | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Vinyl acetate | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Vinyl chloride | ND | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| m,p-Xylene | 78 | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| o-Xylene | 22 | | 2.5 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Naphthalene | ND | | 5.0 | | ppb v/v | | | 10/22/16 10:01 | 6.25 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 400 | | 74 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV4-5

Lab Sample ID: 320-22903-6

Date Collected: 10/21/16 05:23

Matrix: Air

Date Received: 10/21/16 11:45

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 | 110 | | 8.0 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Benzyl chloride | ND | | 26 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Bromodichloromethane | ND | | 13 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Bromoform | ND | | 26 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Bromomethane | ND | | 19 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 2-Butanone (MEK) | 240 | | 15 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Carbon disulfide | 73 | | 16 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Carbon tetrachloride | ND | | 31 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Chlorobenzene | ND | | 8.6 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Dibromochloromethane | ND | | 21 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Chloroethane | ND | | 13 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Chloroform | ND | | 9.2 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Chloromethane | ND | | 10 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dibromoethane (EDB) | ND | | 38 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,3-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,4-Dichlorobenzene | ND | | 15 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Dichlorodifluoromethane | ND | | 12 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,1-Dichloroethane | ND | | 7.6 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichloroethane | ND | | 20 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,1-Dichloroethene | ND | | 20 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| cis-1,2-Dichloroethene | ND | | 9.9 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| trans-1,2-Dichloroethene | ND | | 9.9 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichloropropane | ND | | 12 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| cis-1,3-Dichloropropene | ND | | 11 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| trans-1,3-Dichloropropene | ND | | 11 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 17 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Ethylbenzene | 86 | | 11 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 4-Ethyltoluene | 23 | | 12 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Hexachlorobutadiene | ND | | 130 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 2-Hexanone | ND | | 10 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Methylene Chloride | ND | | 8.7 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 4-Methyl-2-pentanone (MIBK) | 68 | | 10 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Styrene | ND | | 11 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,1,2,2-Tetrachloroethane | ND | | 17 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Tetrachloroethene | ND | | 17 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Toluene | 740 | | 9.4 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,2,4-Trichlorobenzene | ND | | 93 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,1,1-Trichloroethane | ND | | 10 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,1,2-Trichloroethane | ND | | 14 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Trichloroethene | ND | | 13 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,4-Dioxane | ND | | 18 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Trichlorofluoromethane | ND | | 14 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 19 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,2,4-Trimethylbenzene | 39 | | 25 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| 1,3,5-Trimethylbenzene | 17 | | 12 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Vinyl acetate | ND | | 18 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Vinyl chloride | ND | | 6.4 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV4-5

Lab Sample ID: 320-22903-6

Date Collected: 10/21/16 05:23

Matrix: Air

Date Received: 10/21/16 11:45

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 | 340 | | 22 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| o-Xylene | 95 | | 11 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Naphthalene | ND | | 26 | | ug/m3 | | | 10/22/16 10:01 | 6.25 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 | | | | | 10/22/16 10:01 | 6.25 |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 70 - 130 | | | | | 10/22/16 10:01 | 6.25 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | | | | 10/22/16 10:01 | 6.25 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 4.7 | | 1.0 | | % v/v | | | 10/25/16 17:27 | 2.03 |
| Helium | ND | | 0.20 | | % v/v | | | 10/25/16 17:27 | 2.03 |
| Oxygen | 7.4 | | 0.41 | | % v/v | | | 10/25/16 17:27 | 2.03 |

Client Sample ID: PSV4-10

Lab Sample ID: 320-22903-7

Date Collected: 10/21/16 05:23

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 65 | | 23 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Benzene | 41 | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Benzyl chloride | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Bromodichloromethane | ND | | 1.4 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Bromoform | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Bromomethane | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 2-Butanone (MEK) | 36 | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Carbon disulfide | 120 | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Carbon tetrachloride | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Chlorobenzene | ND | | 1.4 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Dibromochloromethane | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Chloroethane | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Chloroform | ND | | 1.4 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Chloromethane | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dibromoethane (EDB) | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,3-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,4-Dichlorobenzene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Dichlorodifluoromethane | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,1-Dichloroethane | ND | | 1.4 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dichloroethane | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,1-Dichloroethene | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| cis-1,2-Dichloroethene | 2.2 | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| trans-1,2-Dichloroethene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dichloropropane | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV4-10

Lab Sample ID: 320-22903-7

Date Collected: 10/21/16 05:23

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Ethylbenzene | 18 | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 4-Ethyltoluene | 3.9 | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Hexachlorobutadiene | ND | | 9.2 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 2-Hexanone | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Methylene Chloride | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 4-Methyl-2-pentanone (MIBK) | 18 | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Styrene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Tetrachloroethene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Toluene | 98 | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,2,4-Trichlorobenzene | ND | | 9.2 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,1,1-Trichloroethane | ND | | 1.4 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,1,2-Trichloroethane | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Trichloroethene | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,4-Dioxane | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Trichlorofluoromethane | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,2,4-Trimethylbenzene | 11 | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| 1,3,5-Trimethylbenzene | 4.8 | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Vinyl acetate | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Vinyl chloride | ND | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| m,p-Xylene | 62 | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| o-Xylene | 21 | | 1.8 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Naphthalene | ND | | 3.7 | | ppb v/v | | | 10/22/16 10:51 | 4.62 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 150 | | 55 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Benzene | 130 | | 5.9 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Benzyl chloride | ND | | 19 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Bromodichloromethane | ND | | 9.3 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Bromoform | ND | | 19 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Bromomethane | ND | | 14 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 2-Butanone (MEK) | 100 | | 11 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Carbon disulfide | 370 | | 12 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Carbon tetrachloride | ND | | 23 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Chlorobenzene | ND | | 6.4 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Dibromochloromethane | ND | | 16 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Chloroethane | ND | | 9.8 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Chloroform | ND | | 6.8 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Chloromethane | ND | | 7.6 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dibromoethane (EDB) | ND | | 28 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,3-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,4-Dichlorobenzene | ND | | 11 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Dichlorodifluoromethane | ND | | 9.1 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,1-Dichloroethane | ND | | 5.6 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dichloroethane | ND | | 15 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,1-Dichloroethene | ND | | 15 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV4-10

Lab Sample ID: 320-22903-7

Date Collected: 10/21/16 05:23

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| cis-1,2-Dichloroethene | 8.8 | | 7.3 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| trans-1,2-Dichloroethene | ND | | 7.3 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dichloropropane | ND | | 8.5 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| cis-1,3-Dichloropropene | ND | | 8.4 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| trans-1,3-Dichloropropene | ND | | 8.4 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 13 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Ethylbenzene | 78 | | 8.0 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 4-Ethyltoluene | 19 | | 9.1 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Hexachlorobutadiene | ND | | 99 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 2-Hexanone | ND | | 7.6 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Methylene Chloride | ND | | 6.4 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 4-Methyl-2-pentanone (MIBK) | 72 | | 7.6 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Styrene | ND | | 7.9 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,1,2,2-Tetrachloroethane | ND | | 13 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Tetrachloroethene | ND | | 13 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Toluene | 370 | | 7.0 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,2,4-Trichlorobenzene | ND | | 69 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,1,1-Trichloroethane | ND | | 7.6 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,1,2-Trichloroethane | ND | | 10 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Trichloroethene | ND | | 9.9 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,4-Dioxane | ND | | 13 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Trichlorofluoromethane | ND | | 10 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 14 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,2,4-Trimethylbenzene | 52 | | 18 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| 1,3,5-Trimethylbenzene | 24 | | 9.1 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Vinyl acetate | ND | | 13 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Vinyl chloride | ND | | 4.7 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| m,p-Xylene | 270 | | 16 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| o-Xylene | 93 | | 8.0 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |
| Naphthalene | ND | | 19 | | ug/m3 | | | 10/22/16 10:51 | 4.62 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | 10/22/16 10:51 | 4.62 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 70 - 130 | | 10/22/16 10:51 | 4.62 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | 10/22/16 10:51 | 4.62 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 3.0 | | 0.94 | | % v/v | | | 10/25/16 17:35 | 1.87 |
| Helium | ND | | 0.19 | | % v/v | | | 10/25/16 17:35 | 1.87 |
| Oxygen | 1.6 | | 0.37 | | % v/v | | | 10/25/16 17:35 | 1.87 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV11-5

Lab Sample ID: 320-22903-8

Date Collected: 10/21/16 05:49

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 330 | | 38 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Benzene | 110 | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Benzyl chloride | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Bromodichloromethane | ND | | 2.3 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Bromoform | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Bromomethane | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 2-Butanone (MEK) | 43 | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Carbon disulfide | 11 | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Carbon tetrachloride | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Chlorobenzene | ND | | 2.3 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Dibromochloromethane | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Chloroethane | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Chloroform | ND | | 2.3 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Chloromethane | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichlorobenzene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,3-Dichlorobenzene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,4-Dichlorobenzene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Dichlorodifluoromethane | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,1-Dichloroethane | ND | | 2.3 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichloroethane | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,1-Dichloroethene | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| cis-1,2-Dichloroethene | 8.1 | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| trans-1,2-Dichloroethene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichloropropane | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| cis-1,3-Dichloropropene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| trans-1,3-Dichloropropene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Ethylbenzene | 8.7 | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 4-Ethyltoluene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Hexachlorobutadiene | ND | | 15 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 2-Hexanone | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Methylene Chloride | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Styrene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Tetrachloroethene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Toluene | 69 | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,1,1-Trichloroethane | ND | | 2.3 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,1,2-Trichloroethane | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Trichloroethene | 4.3 | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,4-Dioxane | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Trichlorofluoromethane | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,2,4-Trimethylbenzene | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| 1,3,5-Trimethylbenzene | ND | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Vinyl acetate | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV11-5

Lab Sample ID: 320-22903-8

Date Collected: 10/21/16 05:49

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|--------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Vinyl chloride | 5.8 | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| m,p-Xylene | 56 | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| o-Xylene | 11 | | 3.0 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Naphthalene | ND | | 6.1 | | ppb v/v | | | 10/22/16 11:39 | 7.62 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 790 | | 91 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Benzene | 340 | | 9.7 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Benzyl chloride | ND | | 32 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Bromodichloromethane | ND | | 15 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Bromoform | ND | | 32 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Bromomethane | ND | | 24 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 2-Butanone (MEK) | 130 | | 18 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Carbon disulfide | 33 | | 19 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Carbon tetrachloride | ND | | 38 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Chlorobenzene | ND | | 11 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Dibromochloromethane | ND | | 26 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Chloroethane | ND | | 16 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Chloroform | ND | | 11 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Chloromethane | ND | | 13 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dibromoethane (EDB) | ND | | 47 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichlorobenzene | ND | | 18 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,3-Dichlorobenzene | ND | | 18 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,4-Dichlorobenzene | ND | | 18 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Dichlorodifluoromethane | ND | | 15 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,1-Dichloroethane | ND | | 9.3 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichloroethane | ND | | 25 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,1-Dichloroethene | ND | | 24 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| cis-1,2-Dichloroethene | 32 | | 12 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| trans-1,2-Dichloroethene | ND | | 12 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichloropropane | ND | | 14 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| cis-1,3-Dichloropropene | ND | | 14 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| trans-1,3-Dichloropropene | ND | | 14 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 21 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Ethylbenzene | 38 | | 13 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 4-Ethyltoluene | ND | | 15 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Hexachlorobutadiene | ND | | 160 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 2-Hexanone | ND | | 12 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Methylene Chloride | ND | | 11 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 12 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Styrene | ND | | 13 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,1,2,2-Tetrachloroethane | ND | | 21 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Tetrachloroethene | ND | | 21 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Toluene | 260 | | 11 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,2,4-Trichlorobenzene | ND | | 110 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,1,1-Trichloroethane | ND | | 12 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,1,2-Trichloroethane | ND | | 17 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Trichloroethene | 23 | | 16 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,4-Dioxane | ND | | 22 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV11-5

Lab Sample ID: 320-22903-8

Date Collected: 10/21/16 05:49

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|---------------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | ND | | 17 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 23 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,2,4-Trimethylbenzene | ND | | 30 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| 1,3,5-Trimethylbenzene | ND | | 15 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Vinyl acetate | ND | | 21 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Vinyl chloride | 15 | | 7.8 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| m,p-Xylene | 240 | | 26 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| o-Xylene | 48 | | 13 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Naphthalene | ND | | 32 | | ug/m3 | | | 10/22/16 11:39 | 7.62 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 | | | | | 10/22/16 11:39 | 7.62 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 70 - 130 | | | | | 10/22/16 11:39 | 7.62 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 | | | | | 10/22/16 11:39 | 7.62 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | 2.3 | | 0.96 | | % v/v | | | 10/25/16 17:47 | 1.92 |
| Helium | ND | | 0.19 | | % v/v | | | 10/25/16 17:47 | 1.92 |
| Oxygen | 1.7 | | 0.38 | | % v/v | | | 10/25/16 17:47 | 1.92 |

Client Sample ID: PSV11-9

Lab Sample ID: 320-22903-9

Date Collected: 10/21/16 05:49

Matrix: Air

Date Received: 10/21/16 11:45

Sample Container: Summa Canister 1L

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|-----|-----|---------|---|----------|----------------|---------|
| Acetone | 97 | | 20 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Benzene | 41 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Benzyl chloride | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Bromodichloromethane | ND | | 1.2 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Bromoform | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Bromomethane | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 2-Butanone (MEK) | 24 | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Carbon disulfide | 26 | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Carbon tetrachloride | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Chlorobenzene | ND | | 1.2 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Dibromochloromethane | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Chloroethane | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Chloroform | ND | | 1.2 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Chloromethane | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dibromoethane (EDB) | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichlorobenzene | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,3-Dichlorobenzene | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,4-Dichlorobenzene | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Dichlorodifluoromethane | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,1-Dichloroethane | ND | | 1.2 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichloroethane | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV11-9

Lab Sample ID: 320-22903-9

Date Collected: 10/21/16 05:49

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|------------|-----------|-----|-----|---------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| cis-1,2-Dichloroethene | 10 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| trans-1,2-Dichloroethene | 2.5 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichloropropane | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| cis-1,3-Dichloropropene | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| trans-1,3-Dichloropropene | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Ethylbenzene | 10 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 4-Ethyltoluene | 3.1 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Hexachlorobutadiene | ND | | 8.2 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 2-Hexanone | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Methylene Chloride | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Styrene | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Tetrachloroethene | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Toluene | 56 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,2,4-Trichlorobenzene | ND | | 8.2 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,1,1-Trichloroethane | ND | | 1.2 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,1,2-Trichloroethane | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Trichloroethene | 3.1 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,4-Dioxane | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Trichlorofluoromethane | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,2,4-Trimethylbenzene | 9.3 | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| 1,3,5-Trimethylbenzene | 5.5 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Vinyl acetate | ND | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Vinyl chloride | 17 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| m,p-Xylene | 63 | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| o-Xylene | 13 | | 1.6 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Naphthalene | 3.3 | | 3.3 | | ppb v/v | | | 10/24/16 19:15 | 4.08 |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Acetone | 230 | | 48 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Benzene | 130 | | 5.2 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Benzyl chloride | ND | | 17 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Bromodichloromethane | ND | | 8.2 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Bromoform | ND | | 17 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Bromomethane | ND | | 13 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 2-Butanone (MEK) | 72 | | 9.6 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Carbon disulfide | 82 | | 10 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Carbon tetrachloride | ND | | 21 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Chlorobenzene | ND | | 5.6 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Dibromochloromethane | ND | | 14 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Chloroethane | ND | | 8.6 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Chloroform | ND | | 6.0 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Chloromethane | ND | | 6.7 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dibromoethane (EDB) | ND | | 25 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichlorobenzene | ND | | 9.8 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |

TestAmerica Sacramento

Client Sample Results

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV11-9

Lab Sample ID: 320-22903-9

Date Collected: 10/21/16 05:49

Matrix: Air

Date Received: 10/21/16 11:45

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 |
|--|------------|-----------|-----|-----|-------|---|----------|----------------|---------|
| 1,3-Dichlorobenzene | ND | | 9.8 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,4-Dichlorobenzene | ND | | 9.8 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Dichlorodifluoromethane | ND | | 8.1 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichloroethane | ND | | 13 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,1-Dichloroethene | ND | | 13 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| cis-1,2-Dichloroethene | 40 | | 6.5 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| trans-1,2-Dichloroethene | 10 | | 6.5 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichloropropane | ND | | 7.5 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| cis-1,3-Dichloropropene | ND | | 7.4 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| trans-1,3-Dichloropropene | ND | | 7.4 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 11 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Ethylbenzene | 44 | | 7.1 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 4-Ethyltoluene | 15 | | 8.0 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Hexachlorobutadiene | ND | | 87 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 2-Hexanone | ND | | 6.7 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Methylene Chloride | ND | | 5.7 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 6.7 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Styrene | ND | | 7.0 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,1,2,2-Tetrachloroethane | ND | | 11 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Tetrachloroethene | ND | | 11 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Toluene | 210 | | 6.2 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,2,4-Trichlorobenzene | ND | | 61 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,1,1-Trichloroethane | ND | | 6.7 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,1,2-Trichloroethane | ND | | 8.9 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Trichloroethene | 17 | | 8.8 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,4-Dioxane | ND | | 12 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Trichlorofluoromethane | ND | | 9.2 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 13 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,2,4-Trimethylbenzene | 46 | | 16 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| 1,3,5-Trimethylbenzene | 27 | | 8.0 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Vinyl acetate | ND | | 11 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Vinyl chloride | 43 | | 4.2 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| m,p-Xylene | 270 | | 14 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| o-Xylene | 57 | | 7.1 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |
| Naphthalene | 17 | | 17 | | ug/m3 | | | 10/24/16 19:15 | 4.08 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109 | | 70 - 130 | | 10/24/16 19:15 | 4.08 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 70 - 130 | | 10/24/16 19:15 | 4.08 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | 10/24/16 19:15 | 4.08 |

Method: D1946 - Fixed Gases in Air (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-------------|-----------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.98 | | % v/v | | | 10/25/16 17:59 | 1.96 |
| Helium | 0.73 | | 0.20 | | % v/v | | | 10/25/16 17:59 | 1.96 |
| Oxygen | 10 | | 0.39 | | % v/v | | | 10/25/16 17:59 | 1.96 |

TestAmerica Sacramento

Surrogate Summary

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

TestAmerica Job ID: 320-22903-1

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

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (70-130) | 12DCE (70-130) | TOL (70-130) |
|--------------------|------------------------|-----------------|-------------------|-----------------|
| 320-22903-1 | PSV1-5 | 105 | 93 | 101 |
| 320-22903-2 | PSV1-10 | 103 | 113 | 97 |
| 320-22903-3 | PSV2-5 | 104 | 99 | 100 |
| 320-22903-3 - DL | PSV2-5 | 105 | 92 | 100 |
| 320-22903-4 | PSV2-9 | 105 | 98 | 100 |
| 320-22903-5 | PSV3-5 | 98 | 90 | 101 |
| 320-22903-6 | PSV4-5 | 106 | 91 | 99 |
| 320-22903-7 | PSV4-10 | 109 | 92 | 99 |
| 320-22903-8 | PSV11-5 | 103 | 100 | 100 |
| 320-22903-9 | PSV11-9 | 109 | 92 | 97 |
| LCS 320-133804/3 | Lab Control Sample | 108 | 100 | 101 |
| LCS 320-133902/3 | Lab Control Sample | 108 | 96 | 101 |
| LCS 320-134141/8 | Lab Control Sample | 110 | 90 | 99 |
| LCSD 320-133804/4 | Lab Control Sample Dup | 107 | 100 | 100 |
| LCSD 320-133902/25 | Lab Control Sample Dup | 105 | 98 | 104 |
| LCSD 320-134141/4 | Lab Control Sample Dup | 111 | 89 | 100 |
| MB 320-133804/6 | Method Blank | 97 | 100 | 99 |
| MB 320-133902/10 | Method Blank | 92 | 94 | 97 |
| MB 320-134141/6 | Method Blank | 100 | 88 | 99 |

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: 320-22903-1

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

Lab Sample ID: MB 320-133804/6

Matrix: Air

Analysis Batch: 133804

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 | | | 10/21/16 15:58 | 1 |
| Benzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Benzyl chloride | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Bromodichloromethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Bromoform | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Bromomethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 2-Butanone (MEK) | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Carbon disulfide | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Carbon tetrachloride | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Chlorobenzene | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Dibromochloromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Chloroethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Chloroform | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Chloromethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Dichlorodifluoromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1-Dichloroethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloroethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloropropane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Ethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 4-Ethyltoluene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 2-Hexanone | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Methylene Chloride | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Styrene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Tetrachloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Toluene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Trichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,4-Dioxane | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Trichlorofluoromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Vinyl acetate | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: MB 320-133804/6
Matrix: Air
Analysis Batch: 133804

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------|-----------|------|-----|---------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Vinyl chloride | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| m,p-Xylene | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| o-Xylene | ND | | 0.40 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Naphthalene | ND | | 0.80 | | ppb v/v | | | 10/21/16 15:58 | 1 |
| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Result | Qualifier | | | | | | | |
| Acetone | ND | | 12 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Benzene | ND | | 1.3 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Benzyl chloride | ND | | 4.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Bromoform | ND | | 4.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Bromomethane | ND | | 3.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 2-Butanone (MEK) | ND | | 2.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Carbon disulfide | ND | | 2.5 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Chlorobenzene | ND | | 1.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Dibromochloromethane | ND | | 3.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Chloroethane | ND | | 2.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Chloroform | ND | | 1.5 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Chloromethane | ND | | 1.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1-Dichloroethane | ND | | 1.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloropropane | ND | | 1.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Ethylbenzene | ND | | 1.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 4-Ethyltoluene | ND | | 2.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Hexachlorobutadiene | ND | | 21 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 2-Hexanone | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Methylene Chloride | ND | | 1.4 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Styrene | ND | | 1.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Tetrachloroethene | ND | | 2.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Toluene | ND | | 1.5 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Trichloroethene | ND | | 2.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: MB 320-133804/6

Matrix: Air

Analysis Batch: 133804

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,4-Dioxane | ND | | 2.9 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Trichlorofluoromethane | ND | | 2.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.9 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Vinyl acetate | ND | | 2.8 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| m,p-Xylene | ND | | 3.5 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| o-Xylene | ND | | 1.7 | | ug/m3 | | | 10/21/16 15:58 | 1 |
| Naphthalene | ND | | 4.2 | | ug/m3 | | | 10/21/16 15:58 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | 10/21/16 15:58 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 70 - 130 | | 10/21/16 15:58 | 1 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | 10/21/16 15:58 | 1 |

Lab Sample ID: LCS 320-133804/3

Matrix: Air

Analysis Batch: 133804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------|-------------|------------|---------------|---------|---|------|--------------|
| Acetone | 20.0 | 18.0 | | ppb v/v | | 90 | 71 - 131 |
| Benzene | 20.0 | 19.6 | | ppb v/v | | 98 | 68 - 128 |
| Benzyl chloride | 20.0 | 18.8 | | ppb v/v | | 94 | 58 - 120 |
| Bromodichloromethane | 20.0 | 20.2 | | ppb v/v | | 101 | 65 - 130 |
| Bromoform | 20.0 | 21.6 | | ppb v/v | | 108 | 64 - 144 |
| Bromomethane | 20.0 | 21.2 | | ppb v/v | | 106 | 70 - 131 |
| 2-Butanone (MEK) | 20.0 | 18.9 | | ppb v/v | | 94 | 71 - 131 |
| Carbon disulfide | 20.0 | 18.4 | | ppb v/v | | 92 | 63 - 123 |
| Carbon tetrachloride | 20.0 | 20.8 | | ppb v/v | | 104 | 67 - 127 |
| Chlorobenzene | 20.0 | 20.4 | | ppb v/v | | 102 | 70 - 132 |
| Dibromochloromethane | 20.0 | 20.7 | | ppb v/v | | 104 | 68 - 128 |
| Chloroethane | 20.0 | 20.1 | | ppb v/v | | 101 | 70 - 131 |
| Chloroform | 20.0 | 20.0 | | ppb v/v | | 100 | 69 - 129 |
| Chloromethane | 20.0 | 19.2 | | ppb v/v | | 96 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.8 | | ppb v/v | | 104 | 68 - 131 |
| 1,2-Dichlorobenzene | 20.0 | 23.6 | | ppb v/v | | 118 | 73 - 143 |
| 1,3-Dichlorobenzene | 20.0 | 23.1 | | ppb v/v | | 115 | 77 - 136 |
| 1,4-Dichlorobenzene | 20.0 | 23.6 | | ppb v/v | | 118 | 73 - 143 |
| Dichlorodifluoromethane | 20.0 | 20.3 | | ppb v/v | | 102 | 69 - 129 |
| 1,1-Dichloroethane | 20.0 | 18.9 | | ppb v/v | | 95 | 65 - 125 |
| 1,2-Dichloroethane | 20.0 | 20.4 | | ppb v/v | | 102 | 71 - 131 |
| 1,1-Dichloroethene | 20.0 | 17.7 | | ppb v/v | | 89 | 53 - 128 |
| cis-1,2-Dichloroethene | 20.0 | 19.7 | | ppb v/v | | 99 | 68 - 128 |
| trans-1,2-Dichloroethene | 20.0 | 18.9 | | ppb v/v | | 95 | 70 - 130 |
| 1,2-Dichloropropane | 20.0 | 20.9 | | ppb v/v | | 105 | 74 - 128 |
| cis-1,3-Dichloropropene | 20.0 | 22.2 | | ppb v/v | | 111 | 78 - 132 |
| trans-1,3-Dichloropropene | 20.0 | 18.7 | | ppb v/v | | 93 | 56 - 136 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCS 320-133804/3

Matrix: Air

Analysis Batch: 133804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 20.8 | | ppb v/v | | 104 | 64 - 124 |
| Ethylbenzene | 20.0 | 20.7 | | ppb v/v | | 104 | 76 - 136 |
| 4-Ethyltoluene | 20.0 | 21.3 | | ppb v/v | | 107 | 62 - 136 |
| Hexachlorobutadiene | 20.0 | 23.3 | | ppb v/v | | 116 | 42 - 150 |
| 2-Hexanone | 20.0 | 21.0 | | ppb v/v | | 105 | 70 - 128 |
| Methylene Chloride | 20.0 | 16.7 | | ppb v/v | | 83 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 19.9 | | ppb v/v | | 99 | 73 - 133 |
| Styrene | 20.0 | 21.8 | | ppb v/v | | 109 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 21.2 | | ppb v/v | | 106 | 75 - 135 |
| Tetrachloroethene | 20.0 | 20.5 | | ppb v/v | | 102 | 56 - 138 |
| Toluene | 20.0 | 20.4 | | ppb v/v | | 102 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 20.0 | 26.0 | | ppb v/v | | 130 | 59 - 150 |
| 1,1,1-Trichloroethane | 20.0 | 20.7 | | ppb v/v | | 103 | 65 - 124 |
| 1,1,2-Trichloroethane | 20.0 | 20.9 | | ppb v/v | | 104 | 71 - 131 |
| Trichloroethene | 20.0 | 20.4 | | ppb v/v | | 102 | 64 - 127 |
| 1,4-Dioxane | 20.0 | 21.5 | | ppb v/v | | 108 | 55 - 141 |
| Trichlorofluoromethane | 20.0 | 21.0 | | ppb v/v | | 105 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 18.3 | | ppb v/v | | 91 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.5 | | ppb v/v | | 107 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.7 | | ppb v/v | | 104 | 65 - 136 |
| Vinyl acetate | 20.0 | 19.8 | | ppb v/v | | 99 | 77 - 134 |
| Vinyl chloride | 20.0 | 20.1 | | ppb v/v | | 101 | 69 - 129 |
| m,p-Xylene | 40.0 | 41.9 | | ppb v/v | | 105 | 75 - 138 |
| o-Xylene | 20.0 | 21.2 | | ppb v/v | | 106 | 77 - 132 |
| Naphthalene | 20.0 | 25.6 | | ppb v/v | | 128 | 58 - 150 |
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
| Acetone | 48 | 42.7 | | ug/m3 | | 90 | 71 - 131 |
| Benzene | 64 | 62.5 | | ug/m3 | | 98 | 68 - 128 |
| Benzyl chloride | 100 | 97.2 | | ug/m3 | | 94 | 58 - 120 |
| Bromodichloromethane | 130 | 136 | | ug/m3 | | 101 | 65 - 130 |
| Bromoform | 210 | 223 | | ug/m3 | | 108 | 64 - 144 |
| Bromomethane | 78 | 82.3 | | ug/m3 | | 106 | 70 - 131 |
| 2-Butanone (MEK) | 59 | 55.6 | | ug/m3 | | 94 | 71 - 131 |
| Carbon disulfide | 62 | 57.4 | | ug/m3 | | 92 | 63 - 123 |
| Carbon tetrachloride | 130 | 131 | | ug/m3 | | 104 | 67 - 127 |
| Chlorobenzene | 92 | 93.7 | | ug/m3 | | 102 | 70 - 132 |
| Dibromochloromethane | 170 | 176 | | ug/m3 | | 104 | 68 - 128 |
| Chloroethane | 53 | 53.0 | | ug/m3 | | 101 | 70 - 131 |
| Chloroform | 98 | 97.5 | | ug/m3 | | 100 | 69 - 129 |
| Chloromethane | 41 | 39.6 | | ug/m3 | | 96 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 150 | 160 | | ug/m3 | | 104 | 68 - 131 |
| 1,2-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 73 - 143 |
| 1,3-Dichlorobenzene | 120 | 139 | | ug/m3 | | 115 | 77 - 136 |
| 1,4-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 73 - 143 |
| Dichlorodifluoromethane | 99 | 100 | | ug/m3 | | 102 | 69 - 129 |
| 1,1-Dichloroethane | 81 | 76.6 | | ug/m3 | | 95 | 65 - 125 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCS 320-133804/3

Matrix: Air

Analysis Batch: 133804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|-------|---|------|--------------|
| 1,2-Dichloroethane | 81 | 82.6 | | ug/m3 | | 102 | 71 - 131 |
| 1,1-Dichloroethene | 79 | 70.2 | | ug/m3 | | 89 | 53 - 128 |
| cis-1,2-Dichloroethene | 79 | 78.2 | | ug/m3 | | 99 | 68 - 128 |
| trans-1,2-Dichloroethene | 79 | 75.1 | | ug/m3 | | 95 | 70 - 130 |
| 1,2-Dichloropropane | 92 | 96.6 | | ug/m3 | | 105 | 74 - 128 |
| cis-1,3-Dichloropropene | 91 | 101 | | ug/m3 | | 111 | 78 - 132 |
| trans-1,3-Dichloropropene | 91 | 84.8 | | ug/m3 | | 93 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 146 | | ug/m3 | | 104 | 64 - 124 |
| Ethylbenzene | 87 | 90.0 | | ug/m3 | | 104 | 76 - 136 |
| 4-Ethyltoluene | 98 | 105 | | ug/m3 | | 107 | 62 - 136 |
| Hexachlorobutadiene | 210 | 248 | | ug/m3 | | 116 | 42 - 150 |
| 2-Hexanone | 82 | 86.2 | | ug/m3 | | 105 | 70 - 128 |
| Methylene Chloride | 69 | 58.0 | | ug/m3 | | 83 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 81.4 | | ug/m3 | | 99 | 73 - 133 |
| Styrene | 85 | 92.9 | | ug/m3 | | 109 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 140 | 146 | | ug/m3 | | 106 | 75 - 135 |
| Tetrachloroethene | 140 | 139 | | ug/m3 | | 102 | 56 - 138 |
| Toluene | 75 | 76.8 | | ug/m3 | | 102 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 150 | 193 | | ug/m3 | | 130 | 59 - 150 |
| 1,1,1-Trichloroethane | 110 | 113 | | ug/m3 | | 103 | 65 - 124 |
| 1,1,2-Trichloroethane | 110 | 114 | | ug/m3 | | 104 | 71 - 131 |
| Trichloroethene | 110 | 110 | | ug/m3 | | 102 | 64 - 127 |
| 1,4-Dioxane | 72 | 77.6 | | ug/m3 | | 108 | 55 - 141 |
| Trichlorofluoromethane | 110 | 118 | | ug/m3 | | 105 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 140 | | ug/m3 | | 91 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 98 | 106 | | ug/m3 | | 107 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 98 | 102 | | ug/m3 | | 104 | 65 - 136 |
| Vinyl acetate | 70 | 69.8 | | ug/m3 | | 99 | 77 - 134 |
| Vinyl chloride | 51 | 51.5 | | ug/m3 | | 101 | 69 - 129 |
| m,p-Xylene | 170 | 182 | | ug/m3 | | 105 | 75 - 138 |
| o-Xylene | 87 | 92.1 | | ug/m3 | | 106 | 77 - 132 |
| Naphthalene | 100 | 134 | | ug/m3 | | 128 | 58 - 150 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 70 - 130 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCSD 320-133804/4

Matrix: Air

Analysis Batch: 133804

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| Acetone | 20.0 | 18.0 | | ppb v/v | | 90 | 71 - 131 | 0 | 25 |
| Benzene | 20.0 | 19.7 | | ppb v/v | | 99 | 68 - 128 | 1 | 25 |
| Benzyl chloride | 20.0 | 19.6 | | ppb v/v | | 98 | 58 - 120 | 4 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCSD 320-133804/4

Matrix: Air

Analysis Batch: 133804

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| Bromodichloromethane | 20.0 | 20.3 | | ppb v/v | | 102 | 65 - 130 | 1 | 25 |
| Bromoform | 20.0 | 21.6 | | ppb v/v | | 108 | 64 - 144 | 0 | 25 |
| Bromomethane | 20.0 | 21.3 | | ppb v/v | | 107 | 70 - 131 | 1 | 25 |
| 2-Butanone (MEK) | 20.0 | 19.2 | | ppb v/v | | 96 | 71 - 131 | 2 | 25 |
| Carbon disulfide | 20.0 | 18.5 | | ppb v/v | | 92 | 63 - 123 | 0 | 25 |
| Carbon tetrachloride | 20.0 | 20.5 | | ppb v/v | | 103 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 20.0 | 20.5 | | ppb v/v | | 102 | 70 - 132 | 1 | 25 |
| Dibromochloromethane | 20.0 | 20.6 | | ppb v/v | | 103 | 68 - 128 | 1 | 25 |
| Chloroethane | 20.0 | 20.6 | | ppb v/v | | 103 | 70 - 131 | 2 | 25 |
| Chloroform | 20.0 | 20.0 | | ppb v/v | | 100 | 69 - 129 | 0 | 25 |
| Chloromethane | 20.0 | 19.7 | | ppb v/v | | 98 | 67 - 127 | 2 | 25 |
| 1,2-Dibromoethane (EDB) | 20.0 | 21.0 | | ppb v/v | | 105 | 68 - 131 | 1 | 25 |
| 1,2-Dichlorobenzene | 20.0 | 24.0 | | ppb v/v | | 120 | 73 - 143 | 2 | 25 |
| 1,3-Dichlorobenzene | 20.0 | 23.7 | | ppb v/v | | 118 | 77 - 136 | 2 | 25 |
| 1,4-Dichlorobenzene | 20.0 | 24.1 | | ppb v/v | | 120 | 73 - 143 | 2 | 25 |
| Dichlorodifluoromethane | 20.0 | 20.1 | | ppb v/v | | 101 | 69 - 129 | 1 | 25 |
| 1,1-Dichloroethane | 20.0 | 18.9 | | ppb v/v | | 95 | 65 - 125 | 0 | 25 |
| 1,2-Dichloroethane | 20.0 | 20.2 | | ppb v/v | | 101 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 20.0 | 17.5 | | ppb v/v | | 88 | 53 - 128 | 1 | 25 |
| cis-1,2-Dichloroethene | 20.0 | 19.9 | | ppb v/v | | 99 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 20.0 | 18.9 | | ppb v/v | | 94 | 70 - 130 | 0 | 25 |
| 1,2-Dichloropropane | 20.0 | 21.2 | | ppb v/v | | 106 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 20.0 | 22.5 | | ppb v/v | | 112 | 78 - 132 | 1 | 25 |
| trans-1,3-Dichloropropene | 20.0 | 19.1 | | ppb v/v | | 95 | 56 - 136 | 2 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 21.5 | | ppb v/v | | 107 | 64 - 124 | 3 | 25 |
| Ethylbenzene | 20.0 | 20.8 | | ppb v/v | | 104 | 76 - 136 | 1 | 25 |
| 4-Ethyltoluene | 20.0 | 21.6 | | ppb v/v | | 108 | 62 - 136 | 1 | 25 |
| Hexachlorobutadiene | 20.0 | 23.6 | | ppb v/v | | 118 | 42 - 150 | 1 | 25 |
| 2-Hexanone | 20.0 | 21.5 | | ppb v/v | | 107 | 70 - 128 | 2 | 25 |
| Methylene Chloride | 20.0 | 16.8 | | ppb v/v | | 84 | 65 - 125 | 0 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 20.0 | | ppb v/v | | 100 | 73 - 133 | 0 | 25 |
| Styrene | 20.0 | 22.0 | | ppb v/v | | 110 | 76 - 144 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 21.5 | | ppb v/v | | 108 | 75 - 135 | 2 | 25 |
| Tetrachloroethene | 20.0 | 20.5 | | ppb v/v | | 103 | 56 - 138 | 0 | 25 |
| Toluene | 20.0 | 20.5 | | ppb v/v | | 102 | 71 - 132 | 0 | 25 |
| 1,2,4-Trichlorobenzene | 20.0 | 26.5 | | ppb v/v | | 132 | 59 - 150 | 2 | 25 |
| 1,1,1-Trichloroethane | 20.0 | 20.3 | | ppb v/v | | 101 | 65 - 124 | 2 | 25 |
| 1,1,2-Trichloroethane | 20.0 | 21.1 | | ppb v/v | | 105 | 71 - 131 | 1 | 25 |
| Trichloroethene | 20.0 | 20.7 | | ppb v/v | | 104 | 64 - 127 | 2 | 25 |
| 1,4-Dioxane | 20.0 | 21.8 | | ppb v/v | | 109 | 55 - 141 | 1 | 25 |
| Trichlorofluoromethane | 20.0 | 20.9 | | ppb v/v | | 105 | 68 - 128 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 18.2 | | ppb v/v | | 91 | 50 - 132 | 0 | 25 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.7 | | ppb v/v | | 109 | 61 - 145 | 1 | 25 |
| 1,3,5-Trimethylbenzene | 20.0 | 21.0 | | ppb v/v | | 105 | 65 - 136 | 1 | 25 |
| Vinyl acetate | 20.0 | 19.8 | | ppb v/v | | 99 | 77 - 134 | 0 | 25 |
| Vinyl chloride | 20.0 | 20.6 | | ppb v/v | | 103 | 69 - 129 | 2 | 25 |
| m,p-Xylene | 40.0 | 42.4 | | ppb v/v | | 106 | 75 - 138 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCSD 320-133804/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133804

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| o-Xylene | 20.0 | 21.3 | | ppb v/v | | 107 | 77 - 132 | 1 | 25 |
| Naphthalene | 20.0 | 26.2 | | ppb v/v | | 131 | 58 - 150 | 3 | 25 |
| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
| Acetone | 48 | 42.8 | | ug/m3 | | 90 | 71 - 131 | 0 | 25 |
| Benzene | 64 | 63.0 | | ug/m3 | | 99 | 68 - 128 | 1 | 25 |
| Benzyl chloride | 100 | 101 | | ug/m3 | | 98 | 58 - 120 | 4 | 25 |
| Bromodichloromethane | 130 | 136 | | ug/m3 | | 102 | 65 - 130 | 1 | 25 |
| Bromoform | 210 | 224 | | ug/m3 | | 108 | 64 - 144 | 0 | 25 |
| Bromomethane | 78 | 82.8 | | ug/m3 | | 107 | 70 - 131 | 1 | 25 |
| 2-Butanone (MEK) | 59 | 56.5 | | ug/m3 | | 96 | 71 - 131 | 2 | 25 |
| Carbon disulfide | 62 | 57.5 | | ug/m3 | | 92 | 63 - 123 | 0 | 25 |
| Carbon tetrachloride | 130 | 129 | | ug/m3 | | 103 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 92 | 94.3 | | ug/m3 | | 102 | 70 - 132 | 1 | 25 |
| Dibromochloromethane | 170 | 175 | | ug/m3 | | 103 | 68 - 128 | 1 | 25 |
| Chloroethane | 53 | 54.3 | | ug/m3 | | 103 | 70 - 131 | 2 | 25 |
| Chloroform | 98 | 97.5 | | ug/m3 | | 100 | 69 - 129 | 0 | 25 |
| Chloromethane | 41 | 40.6 | | ug/m3 | | 98 | 67 - 127 | 2 | 25 |
| 1,2-Dibromoethane (EDB) | 150 | 162 | | ug/m3 | | 105 | 68 - 131 | 1 | 25 |
| 1,2-Dichlorobenzene | 120 | 145 | | ug/m3 | | 120 | 73 - 143 | 2 | 25 |
| 1,3-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 77 - 136 | 2 | 25 |
| 1,4-Dichlorobenzene | 120 | 145 | | ug/m3 | | 120 | 73 - 143 | 2 | 25 |
| Dichlorodifluoromethane | 99 | 99.6 | | ug/m3 | | 101 | 69 - 129 | 1 | 25 |
| 1,1-Dichloroethane | 81 | 76.7 | | ug/m3 | | 95 | 65 - 125 | 0 | 25 |
| 1,2-Dichloroethane | 81 | 81.8 | | ug/m3 | | 101 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 79 | 69.4 | | ug/m3 | | 88 | 53 - 128 | 1 | 25 |
| cis-1,2-Dichloroethene | 79 | 78.8 | | ug/m3 | | 99 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 79 | 74.9 | | ug/m3 | | 94 | 70 - 130 | 0 | 25 |
| 1,2-Dichloropropane | 92 | 97.8 | | ug/m3 | | 106 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 91 | 102 | | ug/m3 | | 112 | 78 - 132 | 1 | 25 |
| trans-1,3-Dichloropropene | 91 | 86.7 | | ug/m3 | | 95 | 56 - 136 | 2 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 150 | | ug/m3 | | 107 | 64 - 124 | 3 | 25 |
| Ethylbenzene | 87 | 90.4 | | ug/m3 | | 104 | 76 - 136 | 1 | 25 |
| 4-Ethyltoluene | 98 | 106 | | ug/m3 | | 108 | 62 - 136 | 1 | 25 |
| Hexachlorobutadiene | 210 | 252 | | ug/m3 | | 118 | 42 - 150 | 1 | 25 |
| 2-Hexanone | 82 | 88.1 | | ug/m3 | | 107 | 70 - 128 | 2 | 25 |
| Methylene Chloride | 69 | 58.2 | | ug/m3 | | 84 | 65 - 125 | 0 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 81.8 | | ug/m3 | | 100 | 73 - 133 | 0 | 25 |
| Styrene | 85 | 93.5 | | ug/m3 | | 110 | 76 - 144 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 140 | 148 | | ug/m3 | | 108 | 75 - 135 | 2 | 25 |
| Tetrachloroethene | 140 | 139 | | ug/m3 | | 103 | 56 - 138 | 0 | 25 |
| Toluene | 75 | 77.1 | | ug/m3 | | 102 | 71 - 132 | 0 | 25 |
| 1,2,4-Trichlorobenzene | 150 | 197 | | ug/m3 | | 132 | 59 - 150 | 2 | 25 |
| 1,1,1-Trichloroethane | 110 | 111 | | ug/m3 | | 101 | 65 - 124 | 2 | 25 |
| 1,1,2-Trichloroethane | 110 | 115 | | ug/m3 | | 105 | 71 - 131 | 1 | 25 |
| Trichloroethene | 110 | 111 | | ug/m3 | | 104 | 64 - 127 | 2 | 25 |
| 1,4-Dioxane | 72 | 78.4 | | ug/m3 | | 109 | 55 - 141 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCSD 320-133804/4

Matrix: Air

Analysis Batch: 133804

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Trichlorofluoromethane | 110 | 118 | | ug/m3 | | 105 | 68 - 128 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 140 | | ug/m3 | | 91 | 50 - 132 | 0 | 25 |
| 1,2,4-Trimethylbenzene | 98 | 107 | | ug/m3 | | 109 | 61 - 145 | 1 | 25 |
| 1,3,5-Trimethylbenzene | 98 | 103 | | ug/m3 | | 105 | 65 - 136 | 1 | 25 |
| Vinyl acetate | 70 | 69.7 | | ug/m3 | | 99 | 77 - 134 | 0 | 25 |
| Vinyl chloride | 51 | 52.6 | | ug/m3 | | 103 | 69 - 129 | 2 | 25 |
| m,p-Xylene | 170 | 184 | | ug/m3 | | 106 | 75 - 138 | 1 | 25 |
| o-Xylene | 87 | 92.6 | | ug/m3 | | 107 | 77 - 132 | 1 | 25 |
| Naphthalene | 100 | 137 | | ug/m3 | | 131 | 58 - 150 | 3 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene (Surr) | 107 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |

Lab Sample ID: MB 320-133902/10

Matrix: Air

Analysis Batch: 133902

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 | | | 10/21/16 20:58 | 1 |
| Benzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Benzyl chloride | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Bromodichloromethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Bromoform | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Bromomethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 2-Butanone (MEK) | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Carbon disulfide | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Carbon tetrachloride | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Chlorobenzene | ND | | 0.30 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Dibromochloromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Chloroethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Chloroform | ND | | 0.30 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Chloromethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Dichlorodifluoromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,1-Dichloroethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,2-Dichloroethane | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,1-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,2-Dichloropropane | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: MB 320-133902/10
Matrix: Air
Analysis Batch: 133902

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|------|-----|---------|---|----------|----------------|---------|
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Ethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 4-Ethyltoluene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 2-Hexanone | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Methylene Chloride | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Styrene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Tetrachloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Toluene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.30 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Trichloroethene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,4-Dioxane | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Trichlorofluoromethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Vinyl acetate | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Vinyl chloride | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| m,p-Xylene | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| o-Xylene | ND | | 0.40 | | ppb v/v | | | 10/21/16 20:58 | 1 |
| Naphthalene | ND | | 0.80 | | ppb v/v | | | 10/21/16 20:58 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| Acetone | ND | | 12 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Benzene | ND | | 1.3 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Benzyl chloride | ND | | 4.1 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Bromoform | ND | | 4.1 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Bromomethane | ND | | 3.1 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 2-Butanone (MEK) | ND | | 2.4 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Carbon disulfide | ND | | 2.5 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Chlorobenzene | ND | | 1.4 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Dibromochloromethane | ND | | 3.4 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Chloroethane | ND | | 2.1 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Chloroform | ND | | 1.5 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Chloromethane | ND | | 1.7 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,1-Dichloroethane | ND | | 1.2 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/21/16 20:58 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: MB 320-133902/10
Matrix: Air
Analysis Batch: 133902

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,1-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,2-Dichloropropane | ND | | 1.8 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.8 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Ethylbenzene | ND | | 1.7 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 4-Ethyltoluene | ND | | 2.0 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Hexachlorobutadiene | ND | | 21 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 2-Hexanone | ND | | 1.6 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Methylene Chloride | ND | | 1.4 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Styrene | ND | | 1.7 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Tetrachloroethene | ND | | 2.7 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Toluene | ND | | 1.5 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Trichloroethene | ND | | 2.1 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,4-Dioxane | ND | | 2.9 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Trichlorofluoromethane | ND | | 2.2 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.9 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Vinyl acetate | ND | | 2.8 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| m,p-Xylene | ND | | 3.5 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| o-Xylene | ND | | 1.7 | | ug/m3 | | | 10/21/16 20:58 | 1 |
| Naphthalene | ND | | 4.2 | | ug/m3 | | | 10/21/16 20:58 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | | 10/21/16 20:58 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 70 - 130 | | 10/21/16 20:58 | 1 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | 10/21/16 20:58 | 1 |

Lab Sample ID: LCS 320-133902/3
Matrix: Air
Analysis Batch: 133902

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|---------|---|------|--------------|
| Acetone | 20.0 | 18.8 | | ppb v/v | | 94 | 71 - 131 |
| Benzene | 20.0 | 19.9 | | ppb v/v | | 99 | 68 - 128 |
| Benzyl chloride | 20.0 | 17.4 | | ppb v/v | | 87 | 58 - 120 |
| Bromodichloromethane | 20.0 | 20.5 | | ppb v/v | | 103 | 65 - 130 |
| Bromoform | 20.0 | 21.9 | | ppb v/v | | 109 | 64 - 144 |
| Bromomethane | 20.0 | 19.9 | | ppb v/v | | 100 | 70 - 131 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCS 320-133902/3

Matrix: Air

Analysis Batch: 133902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| 2-Butanone (MEK) | 20.0 | 20.2 | | ppb v/v | | 101 | 71 - 131 |
| Carbon disulfide | 20.0 | 17.6 | | ppb v/v | | 88 | 63 - 123 |
| Carbon tetrachloride | 20.0 | 21.8 | | ppb v/v | | 109 | 67 - 127 |
| Chlorobenzene | 20.0 | 20.9 | | ppb v/v | | 104 | 70 - 132 |
| Dibromochloromethane | 20.0 | 20.7 | | ppb v/v | | 104 | 68 - 128 |
| Chloroethane | 20.0 | 20.8 | | ppb v/v | | 104 | 70 - 131 |
| Chloroform | 20.0 | 19.7 | | ppb v/v | | 99 | 69 - 129 |
| Chloromethane | 20.0 | 19.0 | | ppb v/v | | 95 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.7 | | ppb v/v | | 104 | 68 - 131 |
| 1,2-Dichlorobenzene | 20.0 | 24.0 | | ppb v/v | | 120 | 73 - 143 |
| 1,3-Dichlorobenzene | 20.0 | 23.7 | | ppb v/v | | 118 | 77 - 136 |
| 1,4-Dichlorobenzene | 20.0 | 24.0 | | ppb v/v | | 120 | 73 - 143 |
| Dichlorodifluoromethane | 20.0 | 19.2 | | ppb v/v | | 96 | 69 - 129 |
| 1,1-Dichloroethane | 20.0 | 19.1 | | ppb v/v | | 95 | 65 - 125 |
| 1,2-Dichloroethane | 20.0 | 19.7 | | ppb v/v | | 99 | 71 - 131 |
| 1,1-Dichloroethene | 20.0 | 17.3 | | ppb v/v | | 86 | 53 - 128 |
| cis-1,2-Dichloroethene | 20.0 | 19.8 | | ppb v/v | | 99 | 68 - 128 |
| trans-1,2-Dichloroethene | 20.0 | 19.2 | | ppb v/v | | 96 | 70 - 130 |
| 1,2-Dichloropropane | 20.0 | 20.8 | | ppb v/v | | 104 | 74 - 128 |
| cis-1,3-Dichloropropene | 20.0 | 22.3 | | ppb v/v | | 112 | 78 - 132 |
| trans-1,3-Dichloropropene | 20.0 | 19.1 | | ppb v/v | | 95 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 16.3 | | ppb v/v | | 81 | 64 - 124 |
| Ethylbenzene | 20.0 | 21.5 | | ppb v/v | | 108 | 76 - 136 |
| 4-Ethyltoluene | 20.0 | 20.9 | | ppb v/v | | 105 | 62 - 136 |
| Hexachlorobutadiene | 20.0 | 27.7 | | ppb v/v | | 139 | 42 - 150 |
| 2-Hexanone | 20.0 | 19.4 | | ppb v/v | | 97 | 70 - 128 |
| Methylene Chloride | 20.0 | 17.4 | | ppb v/v | | 87 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 19.5 | | ppb v/v | | 98 | 73 - 133 |
| Styrene | 20.0 | 23.1 | | ppb v/v | | 115 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 22.3 | | ppb v/v | | 112 | 75 - 135 |
| Tetrachloroethene | 20.0 | 19.9 | | ppb v/v | | 100 | 56 - 138 |
| Toluene | 20.0 | 20.7 | | ppb v/v | | 104 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 20.0 | 27.0 | | ppb v/v | | 135 | 59 - 150 |
| 1,1,1-Trichloroethane | 20.0 | 19.8 | | ppb v/v | | 99 | 65 - 124 |
| 1,1,2-Trichloroethane | 20.0 | 21.2 | | ppb v/v | | 106 | 71 - 131 |
| Trichloroethene | 20.0 | 19.5 | | ppb v/v | | 98 | 64 - 127 |
| 1,4-Dioxane | 20.0 | 21.8 | | ppb v/v | | 109 | 55 - 141 |
| Trichlorofluoromethane | 20.0 | 19.8 | | ppb v/v | | 99 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 18.5 | | ppb v/v | | 92 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.5 | | ppb v/v | | 107 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 20.0 | 21.9 | | ppb v/v | | 109 | 65 - 136 |
| Vinyl acetate | 20.0 | 22.9 | | ppb v/v | | 114 | 77 - 134 |
| Vinyl chloride | 20.0 | 19.5 | | ppb v/v | | 98 | 69 - 129 |
| m,p-Xylene | 40.0 | 44.4 | | ppb v/v | | 111 | 75 - 138 |
| o-Xylene | 20.0 | 22.2 | | ppb v/v | | 111 | 77 - 132 |
| Naphthalene | 20.0 | 23.9 | | ppb v/v | | 119 | 58 - 150 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|-------|---|------|--------------|
| Acetone | 48 | 44.7 | | ug/m3 | | 94 | 71 - 131 |
| Benzene | 64 | 63.4 | | ug/m3 | | 99 | 68 - 128 |
| Benzyl chloride | 100 | 90.2 | | ug/m3 | | 87 | 58 - 120 |
| Bromodichloromethane | 130 | 138 | | ug/m3 | | 103 | 65 - 130 |
| Bromoform | 210 | 226 | | ug/m3 | | 109 | 64 - 144 |
| Bromomethane | 78 | 77.4 | | ug/m3 | | 100 | 70 - 131 |
| 2-Butanone (MEK) | 59 | 59.7 | | ug/m3 | | 101 | 71 - 131 |
| Carbon disulfide | 62 | 54.9 | | ug/m3 | | 88 | 63 - 123 |
| Carbon tetrachloride | 130 | 137 | | ug/m3 | | 109 | 67 - 127 |
| Chlorobenzene | 92 | 96.2 | | ug/m3 | | 104 | 70 - 132 |
| Dibromochloromethane | 170 | 177 | | ug/m3 | | 104 | 68 - 128 |
| Chloroethane | 53 | 54.8 | | ug/m3 | | 104 | 70 - 131 |
| Chloroform | 98 | 96.2 | | ug/m3 | | 99 | 69 - 129 |
| Chloromethane | 41 | 39.2 | | ug/m3 | | 95 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 150 | 159 | | ug/m3 | | 104 | 68 - 131 |
| 1,2-Dichlorobenzene | 120 | 144 | | ug/m3 | | 120 | 73 - 143 |
| 1,3-Dichlorobenzene | 120 | 142 | | ug/m3 | | 118 | 77 - 136 |
| 1,4-Dichlorobenzene | 120 | 144 | | ug/m3 | | 120 | 73 - 143 |
| Dichlorodifluoromethane | 99 | 95.0 | | ug/m3 | | 96 | 69 - 129 |
| 1,1-Dichloroethane | 81 | 77.3 | | ug/m3 | | 95 | 65 - 125 |
| 1,2-Dichloroethane | 81 | 79.9 | | ug/m3 | | 99 | 71 - 131 |
| 1,1-Dichloroethene | 79 | 68.5 | | ug/m3 | | 86 | 53 - 128 |
| cis-1,2-Dichloroethene | 79 | 78.4 | | ug/m3 | | 99 | 68 - 128 |
| trans-1,2-Dichloroethene | 79 | 76.2 | | ug/m3 | | 96 | 70 - 130 |
| 1,2-Dichloropropane | 92 | 96.2 | | ug/m3 | | 104 | 74 - 128 |
| cis-1,3-Dichloropropene | 91 | 101 | | ug/m3 | | 112 | 78 - 132 |
| trans-1,3-Dichloropropene | 91 | 86.6 | | ug/m3 | | 95 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 114 | | ug/m3 | | 81 | 64 - 124 |
| Ethylbenzene | 87 | 93.5 | | ug/m3 | | 108 | 76 - 136 |
| 4-Ethyltoluene | 98 | 103 | | ug/m3 | | 105 | 62 - 136 |
| Hexachlorobutadiene | 210 | 296 | | ug/m3 | | 139 | 42 - 150 |
| 2-Hexanone | 82 | 79.5 | | ug/m3 | | 97 | 70 - 128 |
| Methylene Chloride | 69 | 60.3 | | ug/m3 | | 87 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 80.0 | | ug/m3 | | 98 | 73 - 133 |
| Styrene | 85 | 98.3 | | ug/m3 | | 115 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 140 | 153 | | ug/m3 | | 112 | 75 - 135 |
| Tetrachloroethene | 140 | 135 | | ug/m3 | | 100 | 56 - 138 |
| Toluene | 75 | 78.1 | | ug/m3 | | 104 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 150 | 201 | | ug/m3 | | 135 | 59 - 150 |
| 1,1,1-Trichloroethane | 110 | 108 | | ug/m3 | | 99 | 65 - 124 |
| 1,1,2-Trichloroethane | 110 | 116 | | ug/m3 | | 106 | 71 - 131 |
| Trichloroethene | 110 | 105 | | ug/m3 | | 98 | 64 - 127 |
| 1,4-Dioxane | 72 | 78.7 | | ug/m3 | | 109 | 55 - 141 |
| Trichlorofluoromethane | 110 | 111 | | ug/m3 | | 99 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 142 | | ug/m3 | | 92 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 98 | 106 | | ug/m3 | | 107 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 98 | 107 | | ug/m3 | | 109 | 65 - 136 |
| Vinyl acetate | 70 | 80.6 | | ug/m3 | | 114 | 77 - 134 |
| Vinyl chloride | 51 | 49.9 | | ug/m3 | | 98 | 69 - 129 |
| m,p-Xylene | 170 | 193 | | ug/m3 | | 111 | 75 - 138 |
| o-Xylene | 87 | 96.2 | | ug/m3 | | 111 | 77 - 132 |
| Naphthalene | 100 | 125 | | ug/m3 | | 119 | 58 - 150 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCS 320-133902/3
Matrix: Air
Analysis Batch: 133902

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

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|------------------|------------------|----------|
| 4-Bromofluorobenzene (Surr) | 108 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 70 - 130 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 |

Lab Sample ID: LCSD 320-133902/25
Matrix: Air
Analysis Batch: 133902

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|----------------|----------------|-------------------|---------|---|------|-----------------|-----|--------------|
| Acetone | 20.0 | 17.8 | | ppb v/v | | 89 | 71 - 131 | 5 | 25 |
| Benzene | 20.0 | 19.5 | | ppb v/v | | 97 | 68 - 128 | 2 | 25 |
| Benzyl chloride | 20.0 | 15.1 | | ppb v/v | | 76 | 58 - 120 | 14 | 25 |
| Bromodichloromethane | 20.0 | 20.3 | | ppb v/v | | 102 | 65 - 130 | 1 | 25 |
| Bromoform | 20.0 | 20.9 | | ppb v/v | | 105 | 64 - 144 | 4 | 25 |
| Bromomethane | 20.0 | 19.3 | | ppb v/v | | 97 | 70 - 131 | 3 | 25 |
| 2-Butanone (MEK) | 20.0 | 18.2 | | ppb v/v | | 91 | 71 - 131 | 10 | 25 |
| Carbon disulfide | 20.0 | 18.0 | | ppb v/v | | 90 | 63 - 123 | 2 | 25 |
| Carbon tetrachloride | 20.0 | 21.2 | | ppb v/v | | 106 | 67 - 127 | 3 | 25 |
| Chlorobenzene | 20.0 | 20.4 | | ppb v/v | | 102 | 70 - 132 | 3 | 25 |
| Dibromochloromethane | 20.0 | 20.2 | | ppb v/v | | 101 | 68 - 128 | 3 | 25 |
| Chloroethane | 20.0 | 19.3 | | ppb v/v | | 97 | 70 - 131 | 7 | 25 |
| Chloroform | 20.0 | 19.4 | | ppb v/v | | 97 | 69 - 129 | 1 | 25 |
| Chloromethane | 20.0 | 18.0 | | ppb v/v | | 90 | 67 - 127 | 6 | 25 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.1 | | ppb v/v | | 101 | 68 - 131 | 3 | 25 |
| 1,2-Dichlorobenzene | 20.0 | 22.7 | | ppb v/v | | 114 | 73 - 143 | 5 | 25 |
| 1,3-Dichlorobenzene | 20.0 | 22.3 | | ppb v/v | | 112 | 77 - 136 | 6 | 25 |
| 1,4-Dichlorobenzene | 20.0 | 22.6 | | ppb v/v | | 113 | 73 - 143 | 6 | 25 |
| Dichlorodifluoromethane | 20.0 | 18.5 | | ppb v/v | | 93 | 69 - 129 | 4 | 25 |
| 1,1-Dichloroethane | 20.0 | 18.8 | | ppb v/v | | 94 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 20.0 | 19.6 | | ppb v/v | | 98 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 20.0 | 17.1 | | ppb v/v | | 85 | 53 - 128 | 1 | 25 |
| cis-1,2-Dichloroethene | 20.0 | 19.2 | | ppb v/v | | 96 | 68 - 128 | 3 | 25 |
| trans-1,2-Dichloroethene | 20.0 | 18.9 | | ppb v/v | | 94 | 70 - 130 | 2 | 25 |
| 1,2-Dichloropropane | 20.0 | 20.8 | | ppb v/v | | 104 | 74 - 128 | 0 | 25 |
| cis-1,3-Dichloropropene | 20.0 | 21.9 | | ppb v/v | | 110 | 78 - 132 | 2 | 25 |
| trans-1,3-Dichloropropene | 20.0 | 18.7 | | ppb v/v | | 93 | 56 - 136 | 2 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 16.7 | | ppb v/v | | 83 | 64 - 124 | 2 | 25 |
| Ethylbenzene | 20.0 | 20.9 | | ppb v/v | | 104 | 76 - 136 | 3 | 25 |
| 4-Ethyltoluene | 20.0 | 20.5 | | ppb v/v | | 103 | 62 - 136 | 2 | 25 |
| Hexachlorobutadiene | 20.0 | 27.1 | | ppb v/v | | 135 | 42 - 150 | 3 | 25 |
| 2-Hexanone | 20.0 | 16.9 | | ppb v/v | | 84 | 70 - 128 | 14 | 25 |
| Methylene Chloride | 20.0 | 17.0 | | ppb v/v | | 85 | 65 - 125 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 17.4 | | ppb v/v | | 87 | 73 - 133 | 11 | 25 |
| Styrene | 20.0 | 22.0 | | ppb v/v | | 110 | 76 - 144 | 5 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 21.3 | | ppb v/v | | 106 | 75 - 135 | 5 | 25 |
| Tetrachloroethene | 20.0 | 19.6 | | ppb v/v | | 98 | 56 - 138 | 1 | 25 |
| Toluene | 20.0 | 20.4 | | ppb v/v | | 102 | 71 - 132 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCSD 320-133902/25

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133902

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| 1,2,4-Trichlorobenzene | 20.0 | 24.7 | | ppb v/v | | 124 | 59 - 150 | 9 | 25 |
| 1,1,1-Trichloroethane | 20.0 | 19.4 | | ppb v/v | | 97 | 65 - 124 | 2 | 25 |
| 1,1,2-Trichloroethane | 20.0 | 20.7 | | ppb v/v | | 104 | 71 - 131 | 2 | 25 |
| Trichloroethene | 20.0 | 19.7 | | ppb v/v | | 98 | 64 - 127 | 1 | 25 |
| 1,4-Dioxane | 20.0 | 19.0 | | ppb v/v | | 95 | 55 - 141 | 14 | 25 |
| Trichlorofluoromethane | 20.0 | 19.7 | | ppb v/v | | 99 | 68 - 128 | 0 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 17.8 | | ppb v/v | | 89 | 50 - 132 | 4 | 25 |
| 1,2,4-Trimethylbenzene | 20.0 | 20.6 | | ppb v/v | | 103 | 61 - 145 | 4 | 25 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.9 | | ppb v/v | | 104 | 65 - 136 | 5 | 25 |
| Vinyl acetate | 20.0 | 21.1 | | ppb v/v | | 105 | 77 - 134 | 8 | 25 |
| Vinyl chloride | 20.0 | 18.7 | | ppb v/v | | 93 | 69 - 129 | 5 | 25 |
| m,p-Xylene | 40.0 | 42.6 | | ppb v/v | | 107 | 75 - 138 | 4 | 25 |
| o-Xylene | 20.0 | 21.3 | | ppb v/v | | 107 | 77 - 132 | 4 | 25 |
| Naphthalene | 20.0 | 21.4 | | ppb v/v | | 107 | 58 - 150 | 11 | 25 |
| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
| Acetone | 48 | 42.3 | | ug/m3 | | 89 | 71 - 131 | 5 | 25 |
| Benzene | 64 | 62.2 | | ug/m3 | | 97 | 68 - 128 | 2 | 25 |
| Benzyl chloride | 100 | 78.3 | | ug/m3 | | 76 | 58 - 120 | 14 | 25 |
| Bromodichloromethane | 130 | 136 | | ug/m3 | | 102 | 65 - 130 | 1 | 25 |
| Bromoform | 210 | 216 | | ug/m3 | | 105 | 64 - 144 | 4 | 25 |
| Bromomethane | 78 | 75.1 | | ug/m3 | | 97 | 70 - 131 | 3 | 25 |
| 2-Butanone (MEK) | 59 | 53.8 | | ug/m3 | | 91 | 71 - 131 | 10 | 25 |
| Carbon disulfide | 62 | 56.0 | | ug/m3 | | 90 | 63 - 123 | 2 | 25 |
| Carbon tetrachloride | 130 | 133 | | ug/m3 | | 106 | 67 - 127 | 3 | 25 |
| Chlorobenzene | 92 | 93.8 | | ug/m3 | | 102 | 70 - 132 | 3 | 25 |
| Dibromochloromethane | 170 | 172 | | ug/m3 | | 101 | 68 - 128 | 3 | 25 |
| Chloroethane | 53 | 51.0 | | ug/m3 | | 97 | 70 - 131 | 7 | 25 |
| Chloroform | 98 | 94.8 | | ug/m3 | | 97 | 69 - 129 | 1 | 25 |
| Chloromethane | 41 | 37.1 | | ug/m3 | | 90 | 67 - 127 | 6 | 25 |
| 1,2-Dibromoethane (EDB) | 150 | 155 | | ug/m3 | | 101 | 68 - 131 | 3 | 25 |
| 1,2-Dichlorobenzene | 120 | 137 | | ug/m3 | | 114 | 73 - 143 | 5 | 25 |
| 1,3-Dichlorobenzene | 120 | 134 | | ug/m3 | | 112 | 77 - 136 | 6 | 25 |
| 1,4-Dichlorobenzene | 120 | 136 | | ug/m3 | | 113 | 73 - 143 | 6 | 25 |
| Dichlorodifluoromethane | 99 | 91.7 | | ug/m3 | | 93 | 69 - 129 | 4 | 25 |
| 1,1-Dichloroethane | 81 | 76.2 | | ug/m3 | | 94 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 81 | 79.3 | | ug/m3 | | 98 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 79 | 67.7 | | ug/m3 | | 85 | 53 - 128 | 1 | 25 |
| cis-1,2-Dichloroethene | 79 | 76.1 | | ug/m3 | | 96 | 68 - 128 | 3 | 25 |
| trans-1,2-Dichloroethene | 79 | 74.8 | | ug/m3 | | 94 | 70 - 130 | 2 | 25 |
| 1,2-Dichloropropane | 92 | 96.0 | | ug/m3 | | 104 | 74 - 128 | 0 | 25 |
| cis-1,3-Dichloropropene | 91 | 99.5 | | ug/m3 | | 110 | 78 - 132 | 2 | 25 |
| trans-1,3-Dichloropropene | 91 | 84.8 | | ug/m3 | | 93 | 56 - 136 | 2 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 116 | | ug/m3 | | 83 | 64 - 124 | 2 | 25 |
| Ethylbenzene | 87 | 90.6 | | ug/m3 | | 104 | 76 - 136 | 3 | 25 |
| 4-Ethyltoluene | 98 | 101 | | ug/m3 | | 103 | 62 - 136 | 2 | 25 |
| Hexachlorobutadiene | 210 | 288 | | ug/m3 | | 135 | 42 - 150 | 3 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCSD 320-133902/25

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 133902

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| 2-Hexanone | 82 | 69.1 | | ug/m3 | | 84 | 70 - 128 | 14 | 25 |
| Methylene Chloride | 69 | 58.9 | | ug/m3 | | 85 | 65 - 125 | 2 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 71.4 | | ug/m3 | | 87 | 73 - 133 | 11 | 25 |
| Styrene | 85 | 93.7 | | ug/m3 | | 110 | 76 - 144 | 5 | 25 |
| 1,1,2,2-Tetrachloroethane | 140 | 146 | | ug/m3 | | 106 | 75 - 135 | 5 | 25 |
| Tetrachloroethene | 140 | 133 | | ug/m3 | | 98 | 56 - 138 | 1 | 25 |
| Toluene | 75 | 77.0 | | ug/m3 | | 102 | 71 - 132 | 1 | 25 |
| 1,2,4-Trichlorobenzene | 150 | 183 | | ug/m3 | | 124 | 59 - 150 | 9 | 25 |
| 1,1,1-Trichloroethane | 110 | 106 | | ug/m3 | | 97 | 65 - 124 | 2 | 25 |
| 1,1,2-Trichloroethane | 110 | 113 | | ug/m3 | | 104 | 71 - 131 | 2 | 25 |
| Trichloroethene | 110 | 106 | | ug/m3 | | 98 | 64 - 127 | 1 | 25 |
| 1,4-Dioxane | 72 | 68.5 | | ug/m3 | | 95 | 55 - 141 | 14 | 25 |
| Trichlorofluoromethane | 110 | 111 | | ug/m3 | | 99 | 68 - 128 | 0 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 136 | | ug/m3 | | 89 | 50 - 132 | 4 | 25 |
| 1,2,4-Trimethylbenzene | 98 | 101 | | ug/m3 | | 103 | 61 - 145 | 4 | 25 |
| 1,3,5-Trimethylbenzene | 98 | 103 | | ug/m3 | | 104 | 65 - 136 | 5 | 25 |
| Vinyl acetate | 70 | 74.3 | | ug/m3 | | 105 | 77 - 134 | 8 | 25 |
| Vinyl chloride | 51 | 47.7 | | ug/m3 | | 93 | 69 - 129 | 5 | 25 |
| m,p-Xylene | 170 | 185 | | ug/m3 | | 107 | 75 - 138 | 4 | 25 |
| o-Xylene | 87 | 92.6 | | ug/m3 | | 107 | 77 - 132 | 4 | 25 |
| Naphthalene | 100 | 112 | | ug/m3 | | 107 | 58 - 150 | 11 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 70 - 130 |
| Toluene-d8 (Surr) | 104 | | 70 - 130 |

Lab Sample ID: MB 320-134141/6

Client Sample ID: Method Blank

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 134141

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|--------------|------|-----|---------|---|----------|----------------|---------|
| Acetone | ND | | 5.0 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Benzene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Benzyl chloride | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Bromodichloromethane | ND | | 0.30 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Bromoform | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Bromomethane | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 2-Butanone (MEK) | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Carbon disulfide | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Carbon tetrachloride | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Chlorobenzene | ND | | 0.30 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Dibromochloromethane | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Chloroethane | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Chloroform | ND | | 0.30 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Chloromethane | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: MB 320-134141/6
Matrix: Air
Analysis Batch: 134141

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|--------------|------|-----|---------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Dichlorodifluoromethane | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,1-Dichloroethane | ND | | 0.30 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,2-Dichloroethane | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,1-Dichloroethene | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,2-Dichloropropane | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Ethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 4-Ethyltoluene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Hexachlorobutadiene | ND | | 2.0 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 2-Hexanone | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Methylene Chloride | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Styrene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Tetrachloroethene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Toluene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.30 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Trichloroethene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,4-Dioxane | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Trichlorofluoromethane | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Vinyl acetate | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Vinyl chloride | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| m,p-Xylene | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| o-Xylene | ND | | 0.40 | | ppb v/v | | | 10/24/16 18:25 | 1 |
| Naphthalene | ND | | 0.80 | | ppb v/v | | | 10/24/16 18:25 | 1 |

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| Acetone | ND | | 12 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Benzene | ND | | 1.3 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Benzyl chloride | ND | | 4.1 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Bromodichloromethane | ND | | 2.0 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Bromoform | ND | | 4.1 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Bromomethane | ND | | 3.1 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 2-Butanone (MEK) | ND | | 2.4 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Carbon disulfide | ND | | 2.5 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/m3 | | | 10/24/16 18:25 | 1 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: MB 320-134141/6
Matrix: Air
Analysis Batch: 134141

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

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------|-----------|----------|----------|----------------|---------|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Chlorobenzene | ND | | 1.4 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Dibromochloromethane | ND | | 3.4 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Chloroethane | ND | | 2.1 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Chloroform | ND | | 1.5 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Chloromethane | ND | | 1.7 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,2-Dibromoethane (EDB) | ND | | 6.1 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 2.4 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Dichlorodifluoromethane | ND | | 2.0 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,1-Dichloroethane | ND | | 1.2 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,1-Dichloroethene | ND | | 3.2 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.6 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,2-Dichloropropane | ND | | 1.8 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.8 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | ND | | 2.8 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Ethylbenzene | ND | | 1.7 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 4-Ethyltoluene | ND | | 2.0 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Hexachlorobutadiene | ND | | 21 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 2-Hexanone | ND | | 1.6 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Methylene Chloride | ND | | 1.4 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 1.6 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Styrene | ND | | 1.7 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.7 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Tetrachloroethene | ND | | 2.7 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Toluene | ND | | 1.5 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 15 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,1,1-Trichloroethane | ND | | 1.6 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,1,2-Trichloroethane | ND | | 2.2 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Trichloroethene | ND | | 2.1 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,4-Dioxane | ND | | 2.9 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Trichlorofluoromethane | ND | | 2.2 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.1 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.9 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Vinyl acetate | ND | | 2.8 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Vinyl chloride | ND | | 1.0 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| m,p-Xylene | ND | | 3.5 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| o-Xylene | ND | | 1.7 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Naphthalene | ND | | 4.2 | | ug/m3 | | | 10/24/16 18:25 | 1 |
| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac | | | |
| | %Recovery | Qualifier | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 130 | | 10/24/16 18:25 | 1 | | | |
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 70 - 130 | | 10/24/16 18:25 | 1 | | | |
| Toluene-d8 (Surr) | 99 | | 70 - 130 | | 10/24/16 18:25 | 1 | | | |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

Lab Sample ID: LCS 320-134141/8
Matrix: Air
Analysis Batch: 134141

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| Acetone | 20.0 | 14.2 | | ppb v/v | | 71 | 71 - 131 |
| Benzene | 20.0 | 18.9 | | ppb v/v | | 94 | 68 - 128 |
| Benzyl chloride | 20.0 | 18.7 | | ppb v/v | | 94 | 58 - 120 |
| Bromodichloromethane | 20.0 | 19.1 | | ppb v/v | | 96 | 65 - 130 |
| Bromoform | 20.0 | 21.8 | | ppb v/v | | 109 | 64 - 144 |
| Bromomethane | 20.0 | 21.3 | | ppb v/v | | 106 | 70 - 131 |
| 2-Butanone (MEK) | 20.0 | 18.2 | | ppb v/v | | 91 | 71 - 131 |
| Carbon disulfide | 20.0 | 17.8 | | ppb v/v | | 89 | 63 - 123 |
| Carbon tetrachloride | 20.0 | 19.6 | | ppb v/v | | 98 | 67 - 127 |
| Chlorobenzene | 20.0 | 20.5 | | ppb v/v | | 103 | 70 - 132 |
| Dibromochloromethane | 20.0 | 20.6 | | ppb v/v | | 103 | 68 - 128 |
| Chloroethane | 20.0 | 19.0 | | ppb v/v | | 95 | 70 - 131 |
| Chloroform | 20.0 | 19.1 | | ppb v/v | | 96 | 69 - 129 |
| Chloromethane | 20.0 | 15.5 | | ppb v/v | | 77 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.8 | | ppb v/v | | 104 | 68 - 131 |
| 1,2-Dichlorobenzene | 20.0 | 24.1 | | ppb v/v | | 121 | 73 - 143 |
| 1,3-Dichlorobenzene | 20.0 | 23.9 | | ppb v/v | | 120 | 77 - 136 |
| 1,4-Dichlorobenzene | 20.0 | 24.2 | | ppb v/v | | 121 | 73 - 143 |
| Dichlorodifluoromethane | 20.0 | 19.2 | | ppb v/v | | 96 | 69 - 129 |
| 1,1-Dichloroethane | 20.0 | 17.3 | | ppb v/v | | 87 | 65 - 125 |
| 1,2-Dichloroethane | 20.0 | 17.8 | | ppb v/v | | 89 | 71 - 131 |
| 1,1-Dichloroethene | 20.0 | 15.9 | | ppb v/v | | 80 | 53 - 128 |
| cis-1,2-Dichloroethene | 20.0 | 19.5 | | ppb v/v | | 97 | 68 - 128 |
| trans-1,2-Dichloroethene | 20.0 | 16.9 | | ppb v/v | | 85 | 70 - 130 |
| 1,2-Dichloropropane | 20.0 | 19.8 | | ppb v/v | | 99 | 74 - 128 |
| cis-1,3-Dichloropropene | 20.0 | 21.0 | | ppb v/v | | 105 | 78 - 132 |
| trans-1,3-Dichloropropene | 20.0 | 17.8 | | ppb v/v | | 89 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 20.9 | | ppb v/v | | 105 | 64 - 124 |
| Ethylbenzene | 20.0 | 20.1 | | ppb v/v | | 101 | 76 - 136 |
| 4-Ethyltoluene | 20.0 | 21.6 | | ppb v/v | | 108 | 62 - 136 |
| Hexachlorobutadiene | 20.0 | 24.2 | | ppb v/v | | 121 | 42 - 150 |
| 2-Hexanone | 20.0 | 18.5 | | ppb v/v | | 92 | 70 - 128 |
| Methylene Chloride | 20.0 | 13.5 | | ppb v/v | | 68 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 15.2 | | ppb v/v | | 76 | 73 - 133 |
| Styrene | 20.0 | 21.8 | | ppb v/v | | 109 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.7 | | ppb v/v | | 104 | 75 - 135 |
| Tetrachloroethene | 20.0 | 21.0 | | ppb v/v | | 105 | 56 - 138 |
| Toluene | 20.0 | 19.8 | | ppb v/v | | 99 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 20.0 | 27.1 | | ppb v/v | | 135 | 59 - 150 |
| 1,1,1-Trichloroethane | 20.0 | 19.5 | | ppb v/v | | 97 | 65 - 124 |
| 1,1,2-Trichloroethane | 20.0 | 20.6 | | ppb v/v | | 103 | 71 - 131 |
| Trichloroethene | 20.0 | 20.8 | | ppb v/v | | 104 | 64 - 127 |
| 1,4-Dioxane | 20.0 | 21.0 | | ppb v/v | | 105 | 55 - 141 |
| Trichlorofluoromethane | 20.0 | 20.2 | | ppb v/v | | 101 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 18.0 | | ppb v/v | | 90 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.6 | | ppb v/v | | 108 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.8 | | ppb v/v | | 104 | 65 - 136 |
| Vinyl acetate | 20.0 | 15.4 | | ppb v/v | | 77 | 77 - 134 |
| Vinyl chloride | 20.0 | 19.0 | | ppb v/v | | 95 | 69 - 129 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCS 320-134141/8

Matrix: Air

Analysis Batch: 134141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--|-------------|------------|---------------|---------|---|------|--------------|
| m,p-Xylene | 40.0 | 41.0 | | ppb v/v | | 102 | 75 - 138 |
| o-Xylene | 20.0 | 20.6 | | ppb v/v | | 103 | 77 - 132 |
| Naphthalene | 20.0 | 26.0 | | ppb v/v | | 130 | 58 - 150 |
| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
| Acetone | 48 | 33.8 | | ug/m3 | | 71 | 71 - 131 |
| Benzene | 64 | 60.4 | | ug/m3 | | 94 | 68 - 128 |
| Benzyl chloride | 100 | 97.0 | | ug/m3 | | 94 | 58 - 120 |
| Bromodichloromethane | 130 | 128 | | ug/m3 | | 96 | 65 - 130 |
| Bromoform | 210 | 225 | | ug/m3 | | 109 | 64 - 144 |
| Bromomethane | 78 | 82.7 | | ug/m3 | | 106 | 70 - 131 |
| 2-Butanone (MEK) | 59 | 53.6 | | ug/m3 | | 91 | 71 - 131 |
| Carbon disulfide | 62 | 55.5 | | ug/m3 | | 89 | 63 - 123 |
| Carbon tetrachloride | 130 | 123 | | ug/m3 | | 98 | 67 - 127 |
| Chlorobenzene | 92 | 94.5 | | ug/m3 | | 103 | 70 - 132 |
| Dibromochloromethane | 170 | 176 | | ug/m3 | | 103 | 68 - 128 |
| Chloroethane | 53 | 50.2 | | ug/m3 | | 95 | 70 - 131 |
| Chloroform | 98 | 93.3 | | ug/m3 | | 96 | 69 - 129 |
| Chloromethane | 41 | 32.0 | | ug/m3 | | 77 | 67 - 127 |
| 1,2-Dibromoethane (EDB) | 150 | 160 | | ug/m3 | | 104 | 68 - 131 |
| 1,2-Dichlorobenzene | 120 | 145 | | ug/m3 | | 121 | 73 - 143 |
| 1,3-Dichlorobenzene | 120 | 144 | | ug/m3 | | 120 | 77 - 136 |
| 1,4-Dichlorobenzene | 120 | 145 | | ug/m3 | | 121 | 73 - 143 |
| Dichlorodifluoromethane | 99 | 94.8 | | ug/m3 | | 96 | 69 - 129 |
| 1,1-Dichloroethane | 81 | 70.2 | | ug/m3 | | 87 | 65 - 125 |
| 1,2-Dichloroethane | 81 | 72.2 | | ug/m3 | | 89 | 71 - 131 |
| 1,1-Dichloroethene | 79 | 63.1 | | ug/m3 | | 80 | 53 - 128 |
| cis-1,2-Dichloroethene | 79 | 77.3 | | ug/m3 | | 97 | 68 - 128 |
| trans-1,2-Dichloroethene | 79 | 67.2 | | ug/m3 | | 85 | 70 - 130 |
| 1,2-Dichloropropane | 92 | 91.5 | | ug/m3 | | 99 | 74 - 128 |
| cis-1,3-Dichloropropene | 91 | 95.3 | | ug/m3 | | 105 | 78 - 132 |
| trans-1,3-Dichloropropene | 91 | 80.7 | | ug/m3 | | 89 | 56 - 136 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 146 | | ug/m3 | | 105 | 64 - 124 |
| Ethylbenzene | 87 | 87.3 | | ug/m3 | | 101 | 76 - 136 |
| 4-Ethyltoluene | 98 | 106 | | ug/m3 | | 108 | 62 - 136 |
| Hexachlorobutadiene | 210 | 258 | | ug/m3 | | 121 | 42 - 150 |
| 2-Hexanone | 82 | 75.7 | | ug/m3 | | 92 | 70 - 128 |
| Methylene Chloride | 69 | 46.9 | | ug/m3 | | 68 | 65 - 125 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 62.1 | | ug/m3 | | 76 | 73 - 133 |
| Styrene | 85 | 92.9 | | ug/m3 | | 109 | 76 - 144 |
| 1,1,2,2-Tetrachloroethane | 140 | 142 | | ug/m3 | | 104 | 75 - 135 |
| Tetrachloroethene | 140 | 142 | | ug/m3 | | 105 | 56 - 138 |
| Toluene | 75 | 74.6 | | ug/m3 | | 99 | 71 - 132 |
| 1,2,4-Trichlorobenzene | 150 | 201 | | ug/m3 | | 135 | 59 - 150 |
| 1,1,1-Trichloroethane | 110 | 106 | | ug/m3 | | 97 | 65 - 124 |
| 1,1,2-Trichloroethane | 110 | 112 | | ug/m3 | | 103 | 71 - 131 |
| Trichloroethene | 110 | 112 | | ug/m3 | | 104 | 64 - 127 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCS 320-134141/8

Matrix: Air

Analysis Batch: 134141

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,4-Dioxane | 72 | 75.7 | | ug/m3 | | 105 | 55 - 141 |
| Trichlorofluoromethane | 110 | 113 | | ug/m3 | | 101 | 68 - 128 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 138 | | ug/m3 | | 90 | 50 - 132 |
| 1,2,4-Trimethylbenzene | 98 | 106 | | ug/m3 | | 108 | 61 - 145 |
| 1,3,5-Trimethylbenzene | 98 | 102 | | ug/m3 | | 104 | 65 - 136 |
| Vinyl acetate | 70 | 54.3 | | ug/m3 | | 77 | 77 - 134 |
| Vinyl chloride | 51 | 48.5 | | ug/m3 | | 95 | 69 - 129 |
| m,p-Xylene | 170 | 178 | | ug/m3 | | 102 | 75 - 138 |
| o-Xylene | 87 | 89.3 | | ug/m3 | | 103 | 77 - 132 |
| Naphthalene | 100 | 136 | | ug/m3 | | 130 | 58 - 150 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 110 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 70 - 130 |
| Toluene-d8 (Surr) | 99 | | 70 - 130 |

Lab Sample ID: LCSD 320-134141/4

Matrix: Air

Analysis Batch: 134141

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| Acetone | 20.0 | 14.1 | | ppb v/v | | 71 | 71 - 131 | 1 | 25 |
| Benzene | 20.0 | 18.8 | | ppb v/v | | 94 | 68 - 128 | 1 | 25 |
| Benzyl chloride | 20.0 | 18.6 | | ppb v/v | | 93 | 58 - 120 | 1 | 25 |
| Bromodichloromethane | 20.0 | 19.1 | | ppb v/v | | 95 | 65 - 130 | 0 | 25 |
| Bromoform | 20.0 | 21.8 | | ppb v/v | | 109 | 64 - 144 | 0 | 25 |
| Bromomethane | 20.0 | 21.1 | | ppb v/v | | 105 | 70 - 131 | 1 | 25 |
| 2-Butanone (MEK) | 20.0 | 18.2 | | ppb v/v | | 91 | 71 - 131 | 0 | 25 |
| Carbon disulfide | 20.0 | 17.7 | | ppb v/v | | 88 | 63 - 123 | 1 | 25 |
| Carbon tetrachloride | 20.0 | 19.4 | | ppb v/v | | 97 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 20.0 | 20.5 | | ppb v/v | | 102 | 70 - 132 | 0 | 25 |
| Dibromochloromethane | 20.0 | 20.6 | | ppb v/v | | 103 | 68 - 128 | 0 | 25 |
| Chloroethane | 20.0 | 19.1 | | ppb v/v | | 95 | 70 - 131 | 0 | 25 |
| Chloroform | 20.0 | 18.8 | | ppb v/v | | 94 | 69 - 129 | 1 | 25 |
| Chloromethane | 20.0 | 15.5 | | ppb v/v | | 78 | 67 - 127 | 0 | 25 |
| 1,2-Dibromoethane (EDB) | 20.0 | 20.7 | | ppb v/v | | 104 | 68 - 131 | 0 | 25 |
| 1,2-Dichlorobenzene | 20.0 | 24.1 | | ppb v/v | | 121 | 73 - 143 | 0 | 25 |
| 1,3-Dichlorobenzene | 20.0 | 23.7 | | ppb v/v | | 119 | 77 - 136 | 1 | 25 |
| 1,4-Dichlorobenzene | 20.0 | 24.2 | | ppb v/v | | 121 | 73 - 143 | 0 | 25 |
| Dichlorodifluoromethane | 20.0 | 19.0 | | ppb v/v | | 95 | 69 - 129 | 1 | 25 |
| 1,1-Dichloroethane | 20.0 | 17.2 | | ppb v/v | | 86 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 20.0 | 17.6 | | ppb v/v | | 88 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 20.0 | 15.7 | | ppb v/v | | 79 | 53 - 128 | 1 | 25 |
| cis-1,2-Dichloroethene | 20.0 | 19.3 | | ppb v/v | | 97 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 20.0 | 16.8 | | ppb v/v | | 84 | 70 - 130 | 1 | 25 |
| 1,2-Dichloropropane | 20.0 | 19.5 | | ppb v/v | | 98 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 20.0 | 20.9 | | ppb v/v | | 105 | 78 - 132 | 0 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCSD 320-134141/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 134141

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|---------|---|------|--------------|-----|-----------|
| trans-1,3-Dichloropropene | 20.0 | 17.8 | | ppb v/v | | 89 | 56 - 136 | 0 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 20.0 | 21.4 | | ppb v/v | | 107 | 64 - 124 | 2 | 25 |
| Ethylbenzene | 20.0 | 20.0 | | ppb v/v | | 100 | 76 - 136 | 1 | 25 |
| 4-Ethyltoluene | 20.0 | 21.4 | | ppb v/v | | 107 | 62 - 136 | 1 | 25 |
| Hexachlorobutadiene | 20.0 | 24.1 | | ppb v/v | | 120 | 42 - 150 | 1 | 25 |
| 2-Hexanone | 20.0 | 18.4 | | ppb v/v | | 92 | 70 - 128 | 0 | 25 |
| Methylene Chloride | 20.0 | 13.5 | | ppb v/v | | 68 | 65 - 125 | 0 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 20.0 | 15.2 | | ppb v/v | | 76 | 73 - 133 | 0 | 25 |
| Styrene | 20.0 | 21.6 | | ppb v/v | | 108 | 76 - 144 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 20.0 | 20.5 | | ppb v/v | | 103 | 75 - 135 | 1 | 25 |
| Tetrachloroethene | 20.0 | 20.7 | | ppb v/v | | 104 | 56 - 138 | 1 | 25 |
| Toluene | 20.0 | 19.7 | | ppb v/v | | 99 | 71 - 132 | 0 | 25 |
| 1,2,4-Trichlorobenzene | 20.0 | 27.2 | | ppb v/v | | 136 | 59 - 150 | 0 | 25 |
| 1,1,1-Trichloroethane | 20.0 | 19.2 | | ppb v/v | | 96 | 65 - 124 | 1 | 25 |
| 1,1,2-Trichloroethane | 20.0 | 20.5 | | ppb v/v | | 103 | 71 - 131 | 0 | 25 |
| Trichloroethene | 20.0 | 20.6 | | ppb v/v | | 103 | 64 - 127 | 1 | 25 |
| 1,4-Dioxane | 20.0 | 21.0 | | ppb v/v | | 105 | 55 - 141 | 0 | 25 |
| Trichlorofluoromethane | 20.0 | 20.1 | | ppb v/v | | 100 | 68 - 128 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20.0 | 17.9 | | ppb v/v | | 90 | 50 - 132 | 1 | 25 |
| 1,2,4-Trimethylbenzene | 20.0 | 21.5 | | ppb v/v | | 108 | 61 - 145 | 0 | 25 |
| 1,3,5-Trimethylbenzene | 20.0 | 20.7 | | ppb v/v | | 104 | 65 - 136 | 0 | 25 |
| Vinyl acetate | 20.0 | 15.3 | | ppb v/v | | 77 | 77 - 134 | 1 | 25 |
| Vinyl chloride | 20.0 | 18.5 | | ppb v/v | | 93 | 69 - 129 | 2 | 25 |
| m,p-Xylene | 40.0 | 40.8 | | ppb v/v | | 102 | 75 - 138 | 0 | 25 |
| o-Xylene | 20.0 | 20.5 | | ppb v/v | | 102 | 77 - 132 | 0 | 25 |
| Naphthalene | 20.0 | 26.0 | | ppb v/v | | 130 | 58 - 150 | 0 | 25 |

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Acetone | 48 | 33.6 | | ug/m3 | | 71 | 71 - 131 | 1 | 25 |
| Benzene | 64 | 60.0 | | ug/m3 | | 94 | 68 - 128 | 1 | 25 |
| Benzyl chloride | 100 | 96.4 | | ug/m3 | | 93 | 58 - 120 | 1 | 25 |
| Bromodichloromethane | 130 | 128 | | ug/m3 | | 95 | 65 - 130 | 0 | 25 |
| Bromoform | 210 | 225 | | ug/m3 | | 109 | 64 - 144 | 0 | 25 |
| Bromomethane | 78 | 81.8 | | ug/m3 | | 105 | 70 - 131 | 1 | 25 |
| 2-Butanone (MEK) | 59 | 53.6 | | ug/m3 | | 91 | 71 - 131 | 0 | 25 |
| Carbon disulfide | 62 | 55.1 | | ug/m3 | | 88 | 63 - 123 | 1 | 25 |
| Carbon tetrachloride | 130 | 122 | | ug/m3 | | 97 | 67 - 127 | 1 | 25 |
| Chlorobenzene | 92 | 94.3 | | ug/m3 | | 102 | 70 - 132 | 0 | 25 |
| Dibromochloromethane | 170 | 175 | | ug/m3 | | 103 | 68 - 128 | 0 | 25 |
| Chloroethane | 53 | 50.4 | | ug/m3 | | 95 | 70 - 131 | 0 | 25 |
| Chloroform | 98 | 91.9 | | ug/m3 | | 94 | 69 - 129 | 1 | 25 |
| Chloromethane | 41 | 32.0 | | ug/m3 | | 78 | 67 - 127 | 0 | 25 |
| 1,2-Dibromoethane (EDB) | 150 | 159 | | ug/m3 | | 104 | 68 - 131 | 0 | 25 |
| 1,2-Dichlorobenzene | 120 | 145 | | ug/m3 | | 121 | 73 - 143 | 0 | 25 |
| 1,3-Dichlorobenzene | 120 | 143 | | ug/m3 | | 119 | 77 - 136 | 1 | 25 |
| 1,4-Dichlorobenzene | 120 | 146 | | ug/m3 | | 121 | 73 - 143 | 0 | 25 |
| Dichlorodifluoromethane | 99 | 93.9 | | ug/m3 | | 95 | 69 - 129 | 1 | 25 |

TestAmerica Sacramento

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

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

Lab Sample ID: LCSD 320-134141/4

Client Sample ID: Lab Control Sample Dup

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 134141

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| 1,1-Dichloroethane | 81 | 69.6 | | ug/m3 | | 86 | 65 - 125 | 1 | 25 |
| 1,2-Dichloroethane | 81 | 71.4 | | ug/m3 | | 88 | 71 - 131 | 1 | 25 |
| 1,1-Dichloroethene | 79 | 62.4 | | ug/m3 | | 79 | 53 - 128 | 1 | 25 |
| cis-1,2-Dichloroethene | 79 | 76.7 | | ug/m3 | | 97 | 68 - 128 | 1 | 25 |
| trans-1,2-Dichloroethene | 79 | 66.8 | | ug/m3 | | 84 | 70 - 130 | 1 | 25 |
| 1,2-Dichloropropane | 92 | 90.2 | | ug/m3 | | 98 | 74 - 128 | 1 | 25 |
| cis-1,3-Dichloropropene | 91 | 95.1 | | ug/m3 | | 105 | 78 - 132 | 0 | 25 |
| trans-1,3-Dichloropropene | 91 | 80.8 | | ug/m3 | | 89 | 56 - 136 | 0 | 25 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane | 140 | 150 | | ug/m3 | | 107 | 64 - 124 | 2 | 25 |
| Ethylbenzene | 87 | 86.7 | | ug/m3 | | 100 | 76 - 136 | 1 | 25 |
| 4-Ethyltoluene | 98 | 105 | | ug/m3 | | 107 | 62 - 136 | 1 | 25 |
| Hexachlorobutadiene | 210 | 257 | | ug/m3 | | 120 | 42 - 150 | 1 | 25 |
| 2-Hexanone | 82 | 75.5 | | ug/m3 | | 92 | 70 - 128 | 0 | 25 |
| Methylene Chloride | 69 | 47.0 | | ug/m3 | | 68 | 65 - 125 | 0 | 25 |
| 4-Methyl-2-pentanone (MIBK) | 82 | 62.1 | | ug/m3 | | 76 | 73 - 133 | 0 | 25 |
| Styrene | 85 | 92.1 | | ug/m3 | | 108 | 76 - 144 | 1 | 25 |
| 1,1,2,2-Tetrachloroethane | 140 | 141 | | ug/m3 | | 103 | 75 - 135 | 1 | 25 |
| Tetrachloroethene | 140 | 141 | | ug/m3 | | 104 | 56 - 138 | 1 | 25 |
| Toluene | 75 | 74.3 | | ug/m3 | | 99 | 71 - 132 | 0 | 25 |
| 1,2,4-Trichlorobenzene | 150 | 202 | | ug/m3 | | 136 | 59 - 150 | 0 | 25 |
| 1,1,1-Trichloroethane | 110 | 105 | | ug/m3 | | 96 | 65 - 124 | 1 | 25 |
| 1,1,2-Trichloroethane | 110 | 112 | | ug/m3 | | 103 | 71 - 131 | 0 | 25 |
| Trichloroethene | 110 | 111 | | ug/m3 | | 103 | 64 - 127 | 1 | 25 |
| 1,4-Dioxane | 72 | 75.5 | | ug/m3 | | 105 | 55 - 141 | 0 | 25 |
| Trichlorofluoromethane | 110 | 113 | | ug/m3 | | 100 | 68 - 128 | 1 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 150 | 137 | | ug/m3 | | 90 | 50 - 132 | 1 | 25 |
| 1,2,4-Trimethylbenzene | 98 | 106 | | ug/m3 | | 108 | 61 - 145 | 0 | 25 |
| 1,3,5-Trimethylbenzene | 98 | 102 | | ug/m3 | | 104 | 65 - 136 | 0 | 25 |
| Vinyl acetate | 70 | 53.9 | | ug/m3 | | 77 | 77 - 134 | 1 | 25 |
| Vinyl chloride | 51 | 47.3 | | ug/m3 | | 93 | 69 - 129 | 2 | 25 |
| m,p-Xylene | 170 | 177 | | ug/m3 | | 102 | 75 - 138 | 0 | 25 |
| o-Xylene | 87 | 89.0 | | ug/m3 | | 102 | 77 - 132 | 0 | 25 |
| Naphthalene | 100 | 137 | | ug/m3 | | 130 | 58 - 150 | 0 | 25 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene (Surr) | 111 | | 70 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 70 - 130 |
| Toluene-d8 (Surr) | 100 | | 70 - 130 |

QC Sample Results

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

TestAmerica Job ID: 320-22903-1

Method: D1946 - Fixed Gases in Air (GC)

Lab Sample ID: MB 320-134314/7
Matrix: Air
Analysis Batch: 134314

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Carbon Dioxide (TCD) | ND | | 0.50 | | % v/v | | | 10/25/16 13:14 | 1 |
| Oxygen | ND | | 0.20 | | % v/v | | | 10/25/16 13:14 | 1 |

Lab Sample ID: MB 320-134314/8
Matrix: Air
Analysis Batch: 134314

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Helium | ND | | 0.10 | | % v/v | | | 10/25/16 13:23 | 1 |

Lab Sample ID: LCS 320-134314/2
Matrix: Air
Analysis Batch: 134314

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------------|-------------|------------|---------------|-------|---|------|--------------|
| Carbon Dioxide (TCD) | 25.5 | 27.6 | | % v/v | | 108 | 80 - 120 |

Lab Sample ID: LCS 320-134314/5
Matrix: Air
Analysis Batch: 134314

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Helium | 16.0 | 16.0 | | % v/v | | 100 | 80 - 120 |
| Oxygen | 17.1 | 15.2 | | % v/v | | 89 | 80 - 120 |

Lab Sample ID: LCSD 320-134314/3
Matrix: Air
Analysis Batch: 134314

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Carbon Dioxide (TCD) | 25.5 | 27.7 | | % v/v | | 109 | 80 - 120 | 0 | 20 |

Lab Sample ID: LCSD 320-134314/6
Matrix: Air
Analysis Batch: 134314

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Helium | 16.0 | 15.7 | | % v/v | | 98 | 80 - 120 | 2 | 20 |
| Oxygen | 17.1 | 15.1 | | % v/v | | 88 | 80 - 120 | 1 | 20 |

QC Association Summary

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

TestAmerica Job ID: 320-22903-1

Air - GC/MS VOA

Analysis Batch: 133804

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22903-1 | PSV1-5 | Total/NA | Air | TO-15 | |
| 320-22903-2 | PSV1-10 | Total/NA | Air | TO-15 | |
| 320-22903-3 | PSV2-5 | Total/NA | Air | TO-15 | |
| 320-22903-3 - DL | PSV2-5 | Total/NA | Air | TO-15 | |
| 320-22903-4 | PSV2-9 | Total/NA | Air | TO-15 | |
| 320-22903-5 | PSV3-5 | Total/NA | Air | TO-15 | |
| 320-22903-6 | PSV4-5 | Total/NA | Air | TO-15 | |
| 320-22903-7 | PSV4-10 | Total/NA | Air | TO-15 | |
| MB 320-133804/6 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 320-133804/3 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 320-133804/4 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

Analysis Batch: 133902

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 320-22903-8 | PSV11-5 | Total/NA | Air | TO-15 | |
| MB 320-133902/10 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 320-133902/3 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 320-133902/25 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

Analysis Batch: 134141

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22903-9 | PSV11-9 | Total/NA | Air | TO-15 | |
| MB 320-134141/6 | Method Blank | Total/NA | Air | TO-15 | |
| LCS 320-134141/8 | Lab Control Sample | Total/NA | Air | TO-15 | |
| LCSD 320-134141/4 | Lab Control Sample Dup | Total/NA | Air | TO-15 | |

Air - GC VOA

Analysis Batch: 134314

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 320-22903-1 | PSV1-5 | Total/NA | Air | D1946 | |
| 320-22903-2 | PSV1-10 | Total/NA | Air | D1946 | |
| 320-22903-3 | PSV2-5 | Total/NA | Air | D1946 | |
| 320-22903-4 | PSV2-9 | Total/NA | Air | D1946 | |
| 320-22903-5 | PSV3-5 | Total/NA | Air | D1946 | |
| 320-22903-6 | PSV4-5 | Total/NA | Air | D1946 | |
| 320-22903-7 | PSV4-10 | Total/NA | Air | D1946 | |
| 320-22903-8 | PSV11-5 | Total/NA | Air | D1946 | |
| 320-22903-9 | PSV11-9 | Total/NA | Air | D1946 | |
| MB 320-134314/7 | Method Blank | Total/NA | Air | D1946 | |
| MB 320-134314/8 | Method Blank | Total/NA | Air | D1946 | |
| LCS 320-134314/2 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCS 320-134314/5 | Lab Control Sample | Total/NA | Air | D1946 | |
| LCSD 320-134314/3 | Lab Control Sample Dup | Total/NA | Air | D1946 | |
| LCSD 320-134314/6 | Lab Control Sample Dup | Total/NA | Air | D1946 | |

TestAmerica Sacramento

Lab Chronicle

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV1-5

Date Collected: 10/21/16 04:20

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-1

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 | | 6.71 | 75 mL | 250 mL | 133804 | 10/22/16 01:34 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2.01 | 50 mL | 50 mL | 134314 | 10/25/16 16:47 | AMAO | TAL SAC |

Client Sample ID: PSV1-10

Date Collected: 10/21/16 04:20

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-2

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 | | 25.4 | 20 mL | 250 mL | 133804 | 10/22/16 02:24 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2.03 | 50 mL | 50 mL | 134314 | 10/25/16 16:58 | AMAO | TAL SAC |

Client Sample ID: PSV2-5

Date Collected: 10/21/16 04:42

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-3

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 | 463 mL | 250 mL | 133804 | 10/22/16 03:18 | AP1 | TAL SAC |
| Total/NA | Analysis | TO-15 | DL | 3.56 | 130 mL | 250 mL | 133804 | 10/22/16 09:11 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.85 | 50 mL | 50 mL | 134314 | 10/25/16 17:05 | AMAO | TAL SAC |

Client Sample ID: PSV2-9

Date Collected: 10/21/16 04:42

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-4

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 | | 6.72 | 78 mL | 250 mL | 133804 | 10/22/16 04:08 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2.1 | 50 mL | 50 mL | 134314 | 10/25/16 17:12 | AMAO | TAL SAC |

Client Sample ID: PSV3-5

Date Collected: 10/21/16 05:01

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-5

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 | | 46.7 | 10.7 mL | 250 mL | 133804 | 10/22/16 04:59 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 5.98 | 50 mL | 50 mL | 134314 | 10/25/16 17:20 | AMAO | TAL SAC |

TestAmerica Sacramento

Lab Chronicle

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

TestAmerica Job ID: 320-22903-1

Client Sample ID: PSV4-5

Date Collected: 10/21/16 05:23

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-6

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 | | 6.25 | 81 mL | 250 mL | 133804 | 10/22/16 10:01 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 2.03 | 50 mL | 50 mL | 134314 | 10/25/16 17:27 | AMAO | TAL SAC |

Client Sample ID: PSV4-10

Date Collected: 10/21/16 05:23

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-7

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 | | 4.62 | 101 mL | 250 mL | 133804 | 10/22/16 10:51 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.87 | 50 mL | 50 mL | 134314 | 10/25/16 17:35 | AMAO | TAL SAC |

Client Sample ID: PSV11-5

Date Collected: 10/21/16 05:49

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-8

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 | | 7.62 | 63 mL | 250 mL | 133902 | 10/22/16 11:39 | SRS | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.92 | 50 mL | 50 mL | 134314 | 10/25/16 17:47 | AMAO | TAL SAC |

Client Sample ID: PSV11-9

Date Collected: 10/21/16 05:49

Date Received: 10/21/16 11:45

Lab Sample ID: 320-22903-9

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 | | 4.08 | 120 mL | 250 mL | 134141 | 10/24/16 19:15 | AP1 | TAL SAC |
| Total/NA | Analysis | D1946 | | 1.96 | 50 mL | 50 mL | 134314 | 10/25/16 17:59 | AMAO | TAL SAC |

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 320-22903-1

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | 4040 | 01-29-17 |

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Method Summary

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

TestAmerica Job ID: 320-22903-1

| Method | Method Description | Protocol | Laboratory |
|--------|---|----------|------------|
| TO-15 | Volatile Organic Compounds in Ambient Air | EPA | TAL SAC |
| D1946 | Fixed Gases in Air (GC) | ASTM | TAL SAC |

Protocol References:

ASTM = ASTM International

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: 320-22903-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 320-22903-1 | PSV1-5 | Air | 10/21/16 04:20 | 10/21/16 11:45 |
| 320-22903-2 | PSV1-10 | Air | 10/21/16 04:20 | 10/21/16 11:45 |
| 320-22903-3 | PSV2-5 | Air | 10/21/16 04:42 | 10/21/16 11:45 |
| 320-22903-4 | PSV2-9 | Air | 10/21/16 04:42 | 10/21/16 11:45 |
| 320-22903-5 | PSV3-5 | Air | 10/21/16 05:01 | 10/21/16 11:45 |
| 320-22903-6 | PSV4-5 | Air | 10/21/16 05:23 | 10/21/16 11:45 |
| 320-22903-7 | PSV4-10 | Air | 10/21/16 05:23 | 10/21/16 11:45 |
| 320-22903-8 | PSV11-5 | Air | 10/21/16 05:49 | 10/21/16 11:45 |
| 320-22903-9 | PSV11-9 | Air | 10/21/16 05:49 | 10/21/16 11:45 |



JOB # **320-22903**
 Sample # **1**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000642 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.42 | 10/21/16 | LHS | |
| FINAL PRESSURE (PSIA) | 25.00 | 10/21/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 2.01 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 2.01 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|----------|----------------------------|----------|-------------------|---|---------------------------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 2.01 | X | Load DF = 3.3333333 | X | Bag DF = 1 | = | FINAL DF 6.709608159 |
| | | 250 | | BVf (mLs) | | |
| | | 75 | | Bvi (mLs) | | |
| Canister DF = 2.01 | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | LVf (mLs) | | BVf (mLs) | | |
| | | LVi (mLs) | | Bvi (mLs) | | |
| Canister DF = 2.01 | X | Load DF = #DIV/0! | X | Bag DF = 1 | = | FINAL DF #DIV/0! |
| | | LVf (mLs) | | BVf (mLs) | | |
| | | LVi (mLs) | | Bvi (mLs) | | |



JOB # **320-22903**
 Sample # **3**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34001220 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 13.70 | 10/21/16 | LHS | |
| FINAL PRESSURE (PSIA) | 25.36 | 10/21/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.85 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.85 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------|--------|--------|----------|-----------|--------------------|
| | Date | Instr. | File # | | | |
| Canister DF = | 10/21/2016 | ATMS9 | | | | |
| 1.85 | | | | X | Load DF = | 0.5399568 |
| | | | | | | 250 |
| | | | | | | 463 |
| | | | | | Bag DF = | 1 |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |
| | | | | | = | 0.99951128 |
| | | | | | | FINAL DF |
| | | | | | | 0.99951128 |
| Canister DF = | 10/22/2016 | ATMS9 | | | | |
| 1.85 | | | | X | Load DF = | 1.9230769 |
| | | | | | LVf (mLs) | 250 |
| | | | | | LVi (mLs) | 130 |
| | | | | | Bag DF = | 1 |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |
| | | | | | = | 3.559797866 |
| | | | | | | FINAL DF |
| | | | | | | 3.559797866 |
| Canister DF = | | | | | | |
| 1.85 | | | | X | Load DF = | #DIV/0! |
| | | | | | LVf (mLs) | |
| | | | | | LVi (mLs) | |
| | | | | | Bag DF = | 1 |
| | | | | | BVf (mLs) | |
| | | | | | Bvi (mLs) | |
| | | | | | = | #DIV/0! |
| | | | | | | FINAL DF |
| | | | | | | #DIV/0! |



JOB # **320-22903**
Sample # **4**

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|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000227 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.27 | 10/21/16 | LHS | |
| FINAL PRESSURE (PSIA) | 25.71 | 10/21/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 2.10 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 2.10 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------|--------|--------|------------------------------|---------------------|-----------------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 2.10 X | 10/21/2016 | ATMS9 | | Load DF = 3.2051282 X | Bag DF = 1 = | FINAL DF 6.715879882 |
| | | | | 250 | BVf (mLs) | |
| | | | | 78 | Bvi (mLs) | |
| Canister DF = 2.10 X | | | | Load DF = #DIV/0! X | Bag DF = 1 = | FINAL DF #DIV/0! |
| | | | | LVf (mLs) | BVf (mLs) | |
| | | | | LVi (mLs) | Bvi (mLs) | |
| Canister DF = 2.10 X | | | | Load DF = #DIV/0! X | Bag DF = 1 = | FINAL DF #DIV/0! |
| | | | | LVf (mLs) | BVf (mLs) | |
| | | | | LVi (mLs) | Bvi (mLs) | |

JOB # **320-22903**
 Sample # **5**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000913 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.25 | 10/21/16 | LHS | |
| FINAL PRESSURE (PSIA) | 24.43 | 10/21/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.99 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| 10/21/16 | 14.70 | 44.10 | 1.99 | SV | 5.98 |
| | | | 5.98 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------|--------|--------|----------------------------|-------------------|-------------------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 5.98 X | 10/21/2016 | ATMS9 | | Load DF = 7.8125 X | Bag DF = 1 | FINAL DF = 46.74107143 |
| | | | | 250 | BVf (mLs) | |
| | | | | 32 | Bvi (mLs) | |
| Canister DF = 1.99 X | | | | Load DF = #DIV/0! X | Bag DF = 1 | FINAL DF = #DIV/0! |
| | | | | LVf (mLs) | BVf (mLs) | |
| | | | | LVi (mLs) | Bvi (mLs) | |
| Canister DF = 1.99 X | | | | Load DF = #DIV/0! X | Bag DF = 1 | FINAL DF = #DIV/0! |
| | | | | LVf (mLs) | BVf (mLs) | |
| | | | | LVi (mLs) | Bvi (mLs) | |



JOB # **320-22903**
 Sample # **6**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34001185 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.56 | 10/21/16 | LHS | |
| FINAL PRESSURE (PSIA) | 25.44 | 10/21/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 2.03 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 2.03 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | | | | | |
|-----------------------------|------|--------|-----------|-----------|---|-----------|---|---|----------|-------------|
| | Date | Instr. | File # | | | | | | | |
| Canister DF = | 2.03 | X | Load DF = | 3.0864198 | X | Bag DF = | 1 | = | FINAL DF | 6.251474404 |
| | | | | 250 | | BVf (mLs) | | | | |
| | | | | 81 | | Bvi (mLs) | | | | |
| Canister DF = | 2.03 | X | Load DF = | #DIV/0! | X | Bag DF = | 1 | = | FINAL DF | #DIV/0! |
| | | | | LVf (mLs) | | BVf (mLs) | | | | |
| | | | | LVi (mLs) | | Bvi (mLs) | | | | |
| Canister DF = | 2.03 | X | Load DF = | #DIV/0! | X | Bag DF = | 1 | = | FINAL DF | #DIV/0! |
| | | | | LVf (mLs) | | BVf (mLs) | | | | |
| | | | | LVi (mLs) | | Bvi (mLs) | | | | |



JOB # **320-22903**
 Sample # **7**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000946 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|------|-----------------------------------|----------------------|----------|
| READING | | PRESS. | DATE | INITIALS |
| INITIAL VACUUM CHECK (INCHES Hg) | | 29.8 | | JMT |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | | 13.19 | 10/21/16 | LHS |
| FINAL PRESSURE (PSIA) | | 24.63 | 10/21/16 | LHS |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | |
| Initial Canister Dilution Factor = | 1.87 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.87 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------------------------|------------|--------|--------|---|-------------|
| | | | | | | |
| Canister DF = 1.87 X | Load DF = 2.4752475 X | Date | Instr. | File # | = | FINAL DF |
| | | 10/22/2016 | ATMS9 | | | 4.622088441 |
| | | BVf (mLs) | | | | |
| | | BVi (mLs) | | | | |
| Canister DF = 1.87 X | Load DF = #DIV/0! X | Date | Instr. | File # | = | FINAL DF |
| | | | | | | #DIV/0! |
| | | LVf (mLs) | | | | |
| | | LVi (mLs) | | | | |
| Canister DF = 1.87 X | Load DF = #DIV/0! X | Date | Instr. | File # | = | FINAL DF |
| | | | | | | #DIV/0! |
| | | LVf (mLs) | | | | |
| | | LVi (mLs) | | | | |



JOB # **320-22903**
 Sample # **8**

| | | |
|-----------------------------|-----------|---|
| Client/Project: | VFR ID: | |
| Canister Serial #: 34001622 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | Flow: | mL/min |
| Client ID: | Initials: | |
| Site Location: | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.96 | 10/21/16 | LHS | |
| FINAL PRESSURE (PSIA) | 24.90 | 10/21/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.92 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.92 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|------------|--------|--------|------------|-------------|--|
| | Date | Instr. | File # | | | |
| Canister DF = 1.92 | 10/22/2016 | ATMS2 | | FINAL DF | | |
| X | | | | = | 7.624191652 | |
| Load DF = 3.968254 | | | | Bag DF = 1 | | |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |
| | | | | | | |
| Canister DF = 1.92 | | | | FINAL DF | | |
| X | | | | = | #DIV/0! | |
| Load DF = #DIV/0! | | | | Bag DF = 1 | | |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |
| | | | | | | |
| Canister DF = 1.92 | | | | FINAL DF | | |
| X | | | | = | #DIV/0! | |
| Load DF = #DIV/0! | | | | Bag DF = 1 | | |
| | | | | BVf (mLs) | | |
| | | | | Bvi (mLs) | | |
| | | | | | | |



JOB # **320-22903**
 Sample # **9**

| | | | |
|--------------------|----------|-----------|---|
| Client/Project: | | VFR ID: | |
| Canister Serial #: | 34000616 | Duration: | <input type="checkbox"/> Hrs <input type="checkbox"/> Min |
| Cleaning Job: | | Flow: | mL/min |
| Client ID: | | Initials: | |
| Site Location: | | | |

| FIELD | | | | |
|----------------------|------|--------|------|----------|
| READING | TIME | PRESS. | DATE | INITIALS |
| INITIAL FIELD VACUUM | | | | |
| FINAL FIELD READING | | | | |

| LABORATORY | | | | |
|---|-----------------------------------|----------------------|----------|--|
| READING | PRESS. | DATE | INITIALS | |
| INITIAL VACUUM CHECK (INCHES Hg) | 29.8 | | JMT | |
| <input type="checkbox"/> Helium Pre-dilution - Final Pressure (INCHES Hg) | | | | |
| INITIAL PRESSURE (PSIA) | 12.46 | 10/21/16 | LHS | |
| FINAL PRESSURE (PSIA) | 24.41 | 10/21/16 | LHS | |
| Pressurization Gas: <input type="checkbox"/> N2 <input type="checkbox"/> He | SCREENED <input type="checkbox"/> | SCRN DIL. VS 250mLs: | | |
| Initial Canister Dilution Factor = | 1.96 | | | |

| CANISTER REPRESSURIZATION | | | | | |
|---------------------------|-----------|-----------|------------|----------|---------|
| Date | Pi (PSIA) | Pf (PSIA) | Initial DF | Initials | NEW DF |
| | | | 1.96 | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |
| | | | #DIV/0! | | #DIV/0! |

| Analytical Dilution Factors | | | | | | |
|-----------------------------|-------------------|--------------|-----------------|----------|------------------|--------------------|
| | Date | Instr. | File # | | | |
| Canister DF = 1.96 | 10/22/2016 | ATMS2 | FINAL DF | X | 2 | 3.918138042 |
| | | | | | 250 | |
| | | | | | 125 | |
| | | | | | BVf (mLs) | |
| | | | | | BVi (mLs) | |
| Canister DF = 1.96 | 10/24/2016 | ATMS9 | FINAL DF | X | 2.0833333 | 4.081393793 |
| | | | | | 250 | |
| | | | | | 120 | |
| | | | | | BVf (mLs) | |
| | | | | | BVi (mLs) | |
| Canister DF = 1.96 | | | FINAL DF | X | #DIV/0! | #DIV/0! |
| | | | | | | |
| | | | | | | |
| | | | | | BVf (mLs) | |
| | | | | | BVi (mLs) | |



Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 320-22903-1

Login Number: 22903
List Number: 1
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento

| 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 | |





320-22176 Chain of Custody

Certification Type TO-15 SCAN Loc: 320
Date Cleaned/Batch ID 09/28/16 320-22176 **22176**
Date of QC 9/30/16, 10/3/16

| Canister ID | Filename | Canister ID | Filename |
|-------------|----------|-------------|----------|
| 34001025 | _____ | 34000982 | 16100318 |
| 34000642 | 16093025 | 34000231 | _____ |
| 34001187 | 16100306 | 34000758 | 16100321 |
| 34000913 | 16100307 | 34000643 | 16100322 |
| 34001671 | 16100308 | | |
| 8440 | 16100309 | | |
| 34001788 | _____ | | |
| 34000740 | 16100312 | | |
| 34001011 | 16100313 | | |
| 34002183 | _____ | | |
| 34000965 | 16100316 | | |
| 34000677 | 16100317 | | |

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.

NU for AP
1st level Reviewed By:
[Signature]
2nd level Reviewed By:

10/4/16
Date:
10/6/16
Date:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Certification Type TO-15 SCAN
 Date Cleaned/Batch ID D 9/29/16 320-22237
 Date of QC 10/4/16
 Data File Number MS9100321.D ; MS9100322.D



CANISTER ID NUMBERS

| | | |
|----------------------------------|----------|--|
| * 34000227 | 34001729 | |
| * 34000763 | 34001224 | |
| 34001070 | 34001647 | |
| 34000601 | 34000812 | |
| 34002056 | 8504 | |
| 34000878 ⁶ † 10-05-16 | 34000682 | |
| 34000735 | 34000600 | |
| 34001599 | 34001631 | |

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.

[Signature]
1st level Reviewed By:
[Signature]
2nd level Reviewed By:

10/5/16
Date:
10/6/16
Date:





320-22410 Chain of Custody

Certification Type TO15, SUGW
 Date Cleaned/Batch ID 10/05/16, 320-22410
 Date of QC 10/06/16
 Data File Number M59100621

CANISTER ID NUMBERS

| | | |
|-------------------|-----------------|-------|
| <u>34000773 *</u> | <u>34000644</u> | _____ |
| <u>34000675</u> | <u>34000602</u> | _____ |
| <u>34001220</u> | <u>34002002</u> | _____ |
| <u>34001622</u> | <u>34000992</u> | _____ |
| <u>34000628</u> | <u>34000744</u> | _____ |
| <u>34000616</u> | <u>34001006</u> | _____ |
| <u>34000238</u> | <u>34001185</u> | _____ |
| <u>34001967</u> | <u>34001076</u> | _____ |

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.

[Signature]
1st level Reviewed By:

10/10/16
Date:

[Signature]
2nd level Reviewed By:

10/10/16
Date:





Certification Type TO15, SCGM
 Date Cleaned/Batch ID 10/06/16, 320-22465
 Date of QC 10/7/16
 Data File Number M59100716

CANISTER ID NUMBERS

| | | |
|-------------------|-----------------|-------|
| <u>34001923 *</u> | <u>34001872</u> | _____ |
| <u>34001022</u> | <u>34001918</u> | _____ |
| <u>34000946</u> | <u>7535</u> | _____ |
| <u>34000732</u> | <u>34001908</u> | _____ |
| <u>7706</u> | <u>34001909</u> | _____ |
| <u>34001916</u> | <u>34001857</u> | _____ |
| <u>34001929</u> | <u>34001753</u> | _____ |
| <u>34001780</u> | <u>34001914</u> | _____ |

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.

[Signature] for AP 10/10/16
 1st level Reviewed By: Date:
[Signature] 10/10/16
 2nd level Reviewed By: Date:



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000642 Lab Sample ID: 320-22176-2
 Matrix: Air Lab File ID: 16093025.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/01/2016 06:27
 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.: 130145 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|-----|------|-------|
| 67-64-1 | Acetone | 0.43 | 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 | 0.38 | J B | 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 | 0.43 | J | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000642 Lab Sample ID: 320-22176-2
 Matrix: Air Lab File ID: 16093025.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/01/2016 06:27
 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.: 130145 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 | 0.095 | J | 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 | 0.17 | J B | 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 | 0.050 |
| 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 | 0.37 | J B | 0.80 | 0.26 |
| 115-07-1 | Propylene | 0.14 | J B | 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 | 0.079 |
| 108-88-3 | Toluene | 0.36 | J B | 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000642 Lab Sample ID: 320-22176-2
 Matrix: Air Lab File ID: 16093025.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/01/2016 06:27
 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.: 130145 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 | 0.19 | J | 0.80 | 0.16 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | | 0.40 | 0.13 |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.15 | J B | 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 | 0.38 | J B | 0.80 | 0.10 |
| 95-47-6 | o-Xylene | 0.16 | J B | 0.40 | 0.054 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 91 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D
 Lims ID: 320-22176-A-2
 Client ID: 34000642
 Sample Type: Client
 Inject. Date: 01-Oct-2016 06:27:30 ALS Bottle#: 4 Worklist Smp#: 25
 Purge Vol: 250.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-2
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS2
 Method: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\TO15_ATMS2N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 03-Oct-2016 13:37:56 Calib Date: 18-Sep-2016 03:52:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS2\20160917-34629.b\16091724.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK011

First Level Reviewer: phanthasena

Date: 03-Oct-2016 13:37:56

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 11.455 | 11.455 | 0.000 | 96 | 37633 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 13.554 | 13.560 | -0.006 | 95 | 146788 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 19.607 | 19.613 | -0.006 | 88 | 135241 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 12.611 | 12.623 | -0.012 | 0 | 52248 | 3.90 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 16.778 | 16.791 | -0.013 | 98 | 89443 | 3.98 | |
| \$ 6 4-Bromofluorobenzene (Surr | 95 | 21.621 | 21.627 | -0.006 | 92 | 90364 | 3.64 | |
| 10 Propene | 41 | 3.912 | 3.906 | 0.006 | 82 | 969 | 0.1353 | |
| 18 Butane | 43 | 4.544 | 4.544 | 0.000 | 98 | 6575 | 0.3830 | |
| 27 Pentane | 43 | 6.181 | 6.175 | 0.006 | 94 | 6924 | 0.3720 | |
| 32 Acetone | 43 | 6.929 | 6.911 | 0.018 | 96 | 5340 | 0.4267 | |
| 39 Methylene Chloride | 49 | 8.121 | 8.134 | -0.013 | 34 | 631 | 0.0527 | |
| 40 Carbon disulfide | 76 | 8.176 | 8.176 | 0.000 | 99 | 12207 | 0.4286 | |
| 44 Hexane | 41 | 9.259 | 9.259 | -0.006 | 68 | 2046 | 0.1650 | |
| 56 Cyclohexane | 84 | 12.301 | 12.313 | -0.012 | 1 | 256 | 0.0182 | |
| 57 Isooctane | 57 | 12.629 | 12.630 | -0.001 | 96 | 8122 | 0.1520 | |
| 63 Benzene | 78 | 12.940 | 12.940 | 0.000 | 1 | 2155 | 0.0688 | |
| 64 n-Heptane | 43 | 13.146 | 13.147 | -0.001 | 77 | 1241 | 0.0619 | |
| 65 Trichloroethene | 130 | 14.290 | 14.296 | -0.006 | 94 | 1567 | 0.0981 | |
| 73 n-Octane | 43 | 16.870 | 16.876 | -0.006 | 75 | 864 | 0.0313 | |
| 74 Toluene | 91 | 16.937 | 16.943 | -0.006 | 94 | 13774 | 0.3583 | |
| 85 Ethylbenzene | 91 | 19.838 | 19.839 | -0.001 | 94 | 4274 | 0.0950 | |
| 86 m-Xylene & p-Xylene | 91 | 19.984 | 19.991 | -0.007 | 98 | 12993 | 0.3824 | |
| 87 o-Xylene | 91 | 20.702 | 20.709 | -0.007 | 97 | 5354 | 0.1564 | |
| 96 N-Propylbenzene | 91 | 21.937 | 21.937 | 0.000 | 95 | 2192 | 0.0383 | |
| 98 4-Ethyltoluene | 120 | 22.108 | 22.108 | 0.000 | 96 | 606 | 0.0416 | M |
| 100 1,3,5-Trimethylbenzene | 120 | 22.175 | 22.181 | -0.007 | 90 | 1089 | 0.0556 | |
| 106 1,2,4-Trimethylbenzene | 120 | 22.740 | 22.740 | 0.000 | 97 | 3890 | 0.1889 | |
| 125 Naphthalene | 128 | 26.378 | 26.378 | 0.000 | 97 | 5560 | 0.1701 | |

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Operator ID: KY

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Worklist Smp#: 25

Client ID: 34000642

Purge Vol: 250.000 mL

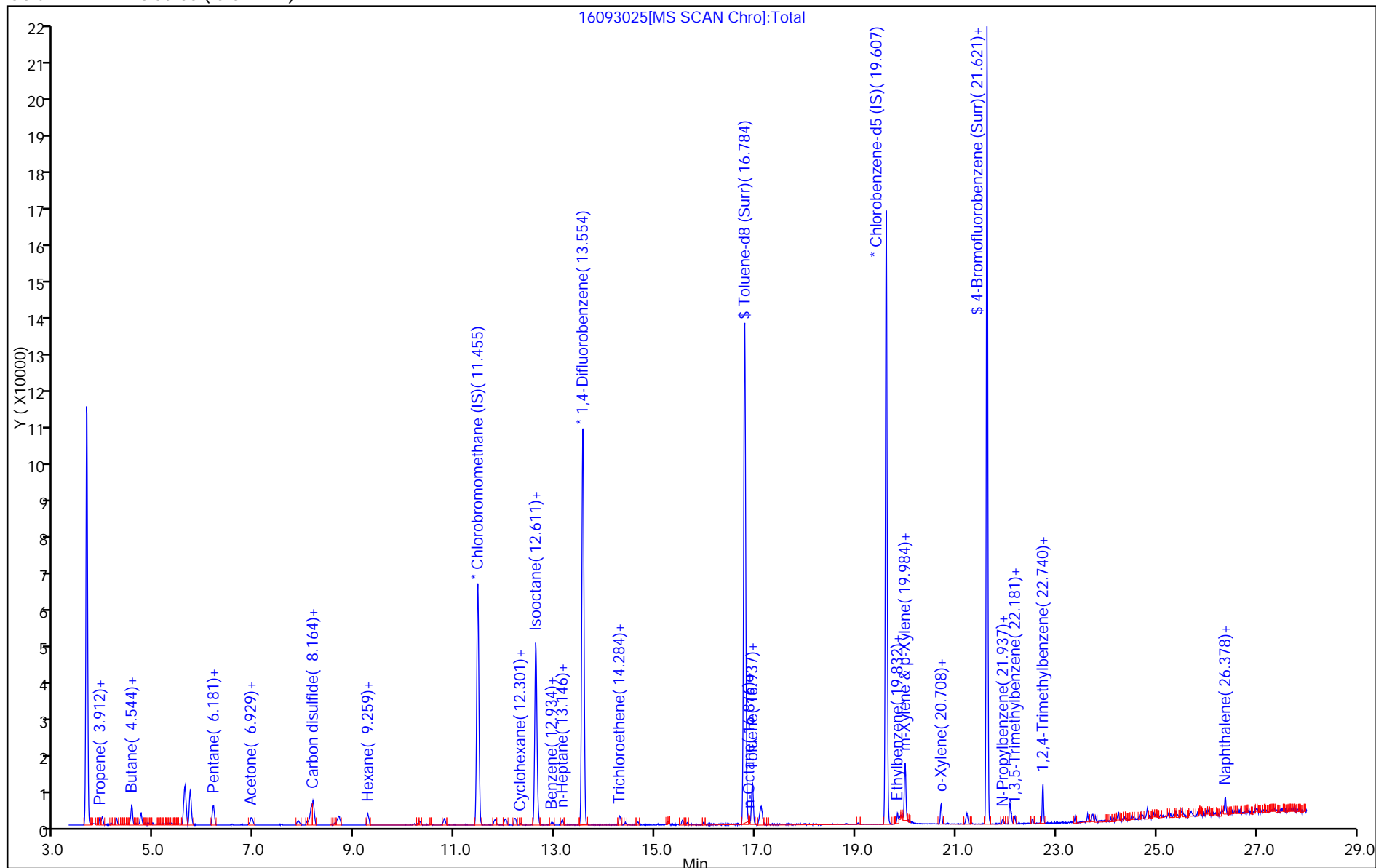
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

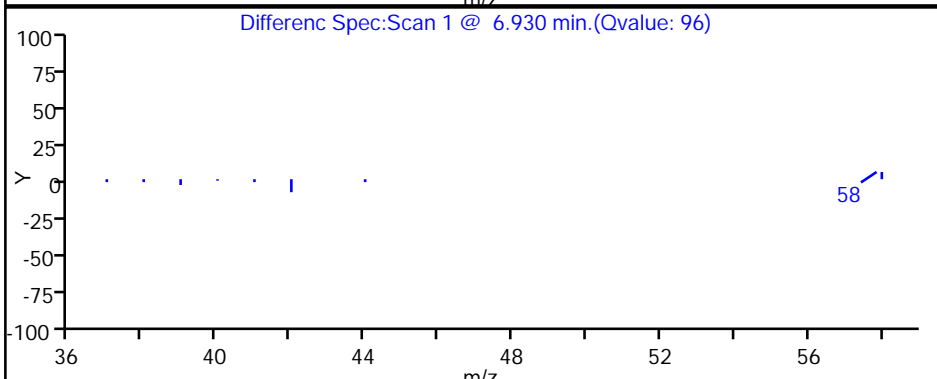
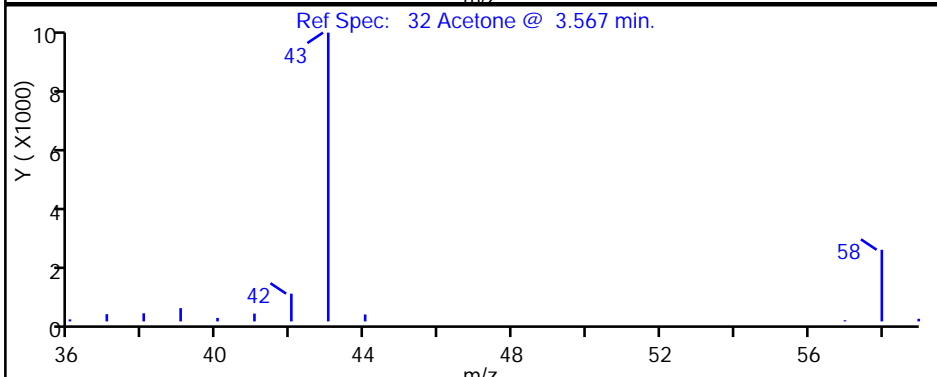
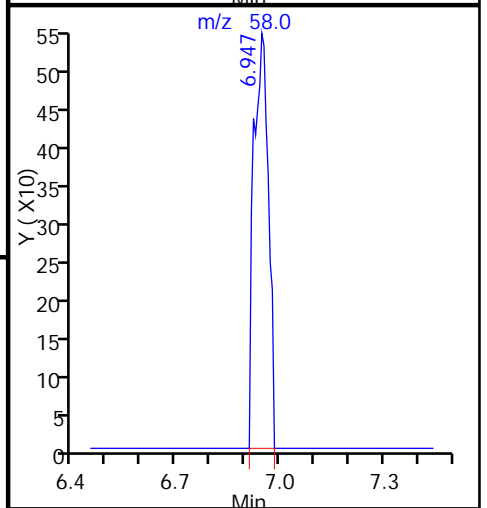
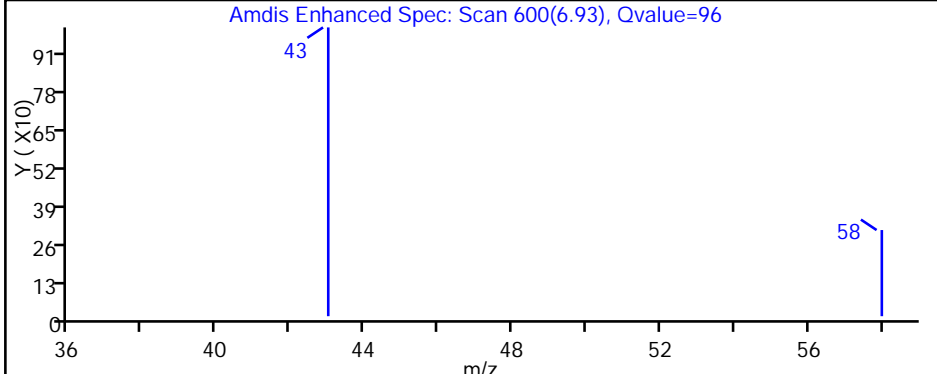
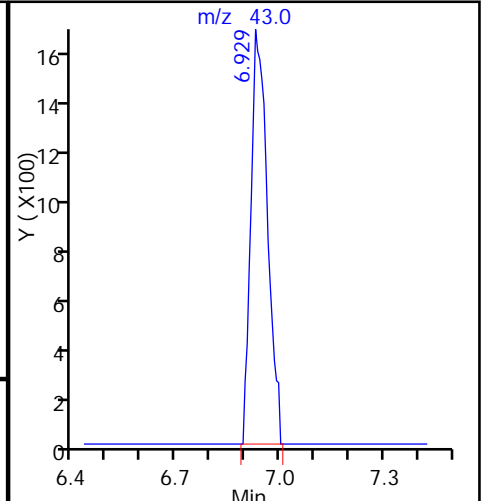
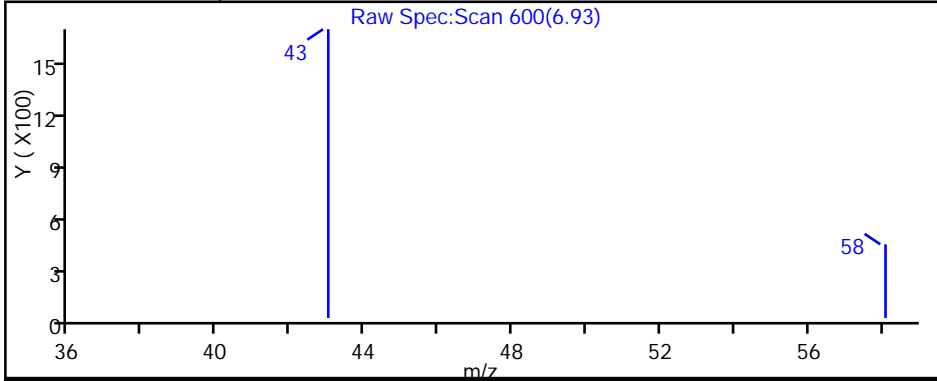
Method: TO15_ATMS2N

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\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

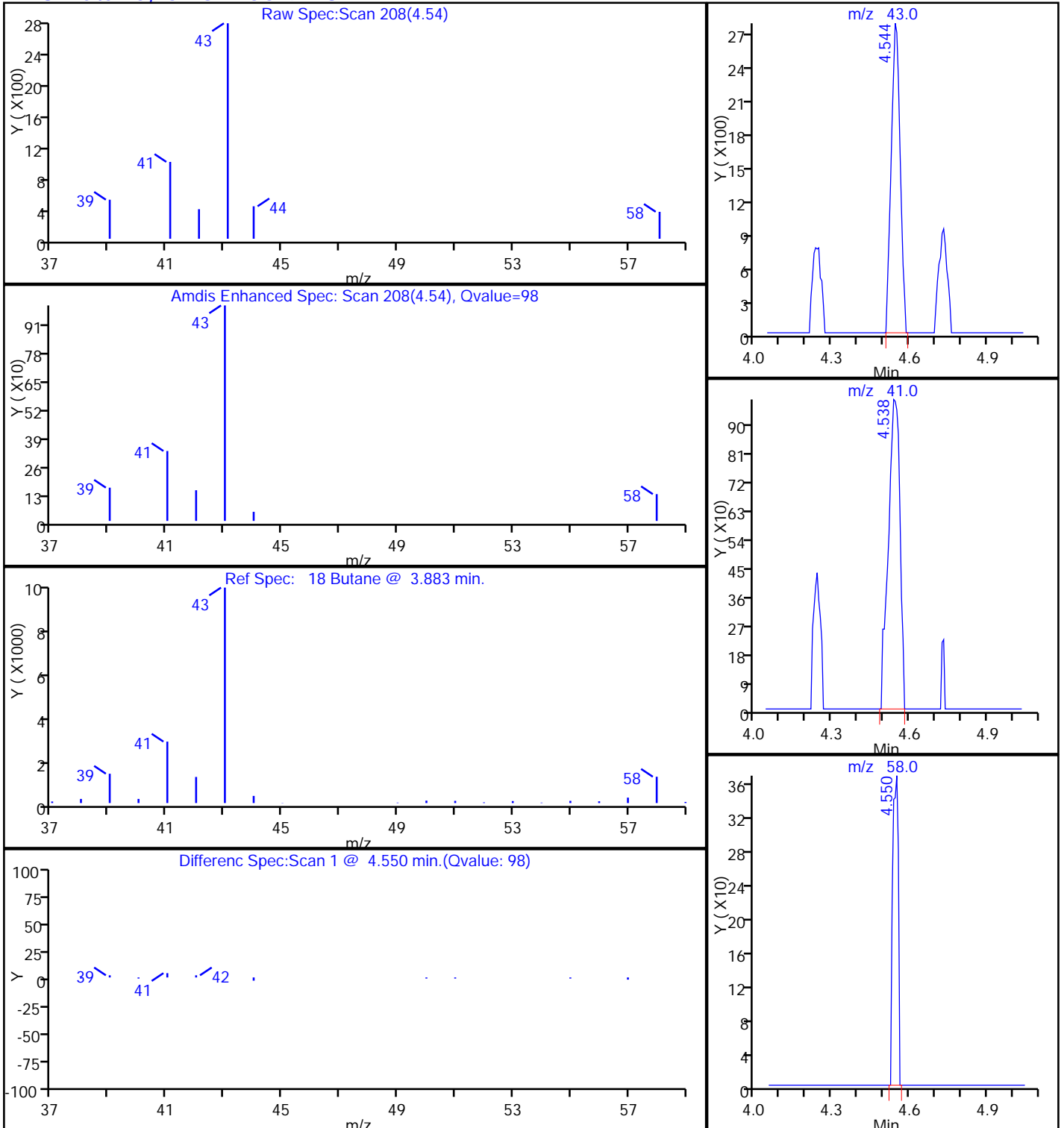
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

18 Butane, CAS: 106-97-8



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

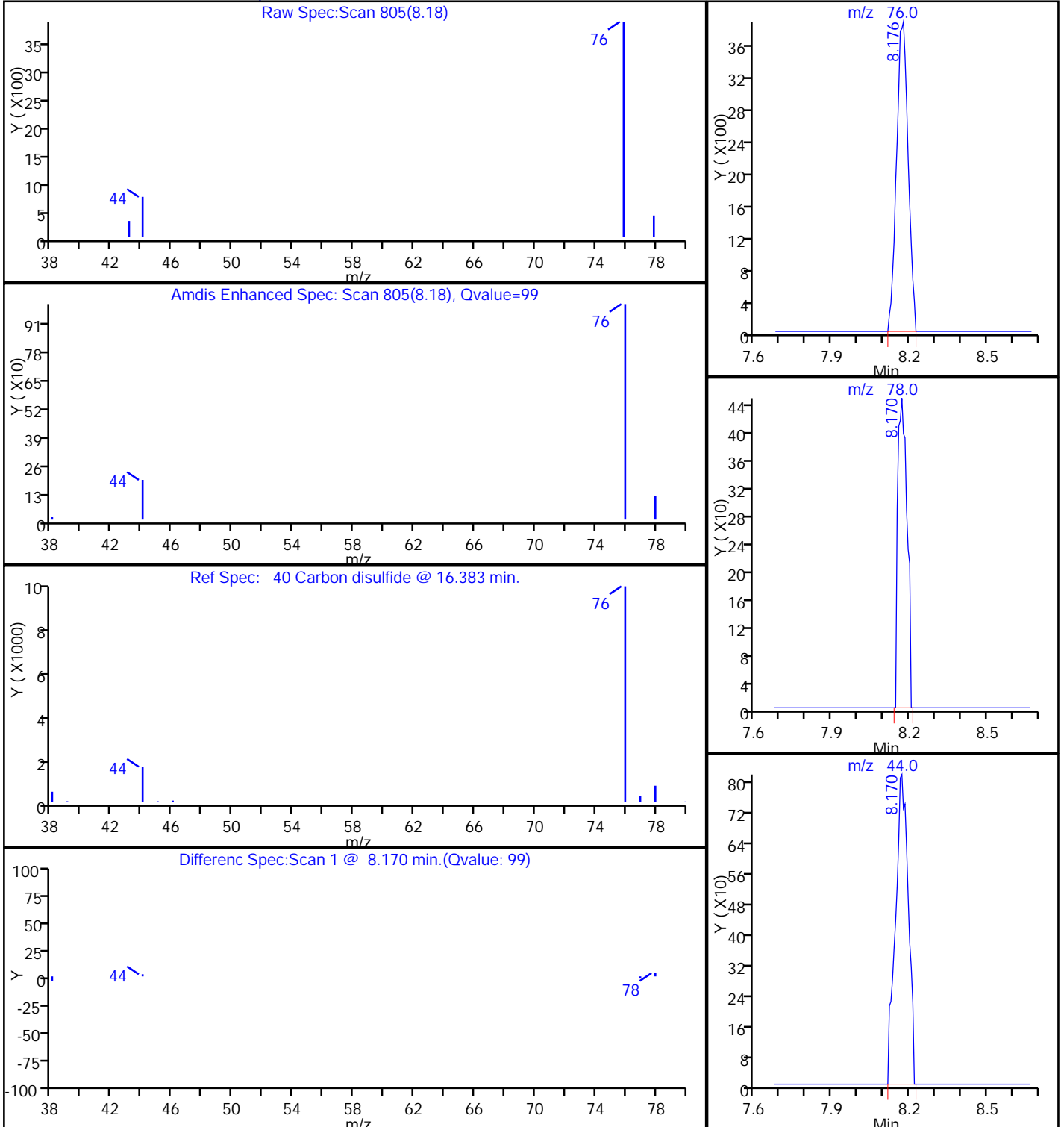
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

40 Carbon disulfide, CAS: 75-15-0



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

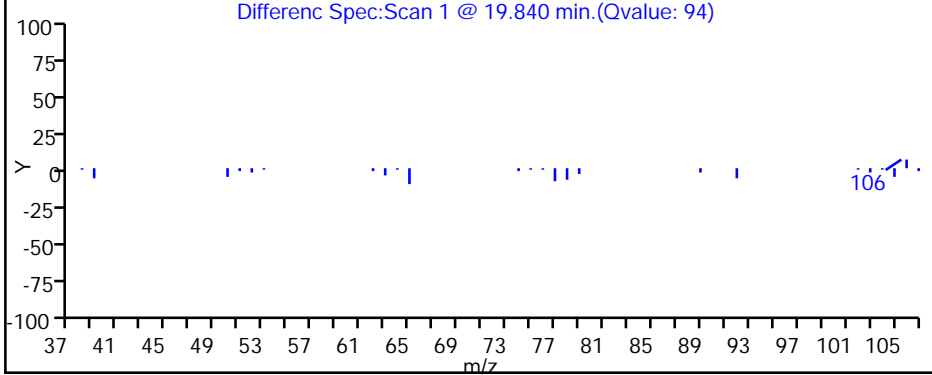
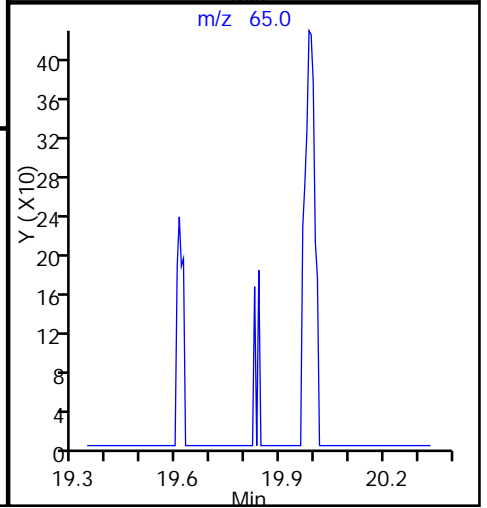
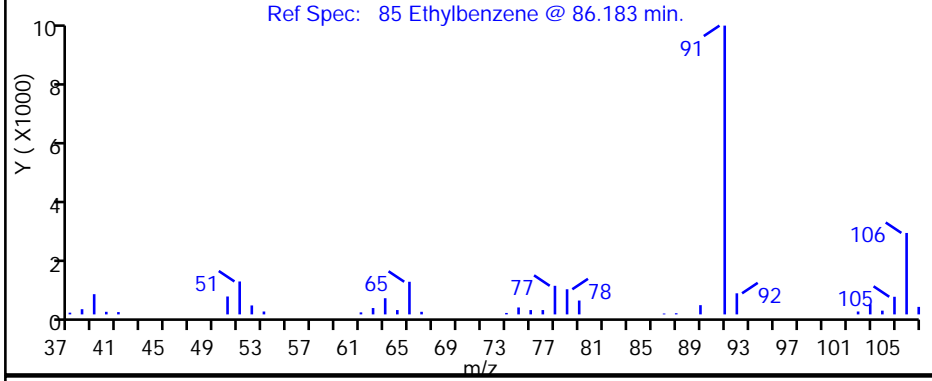
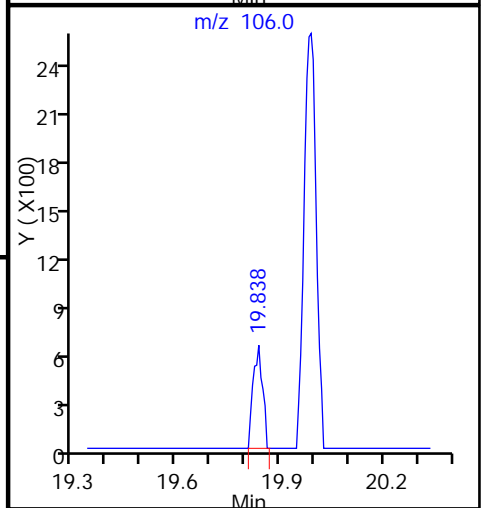
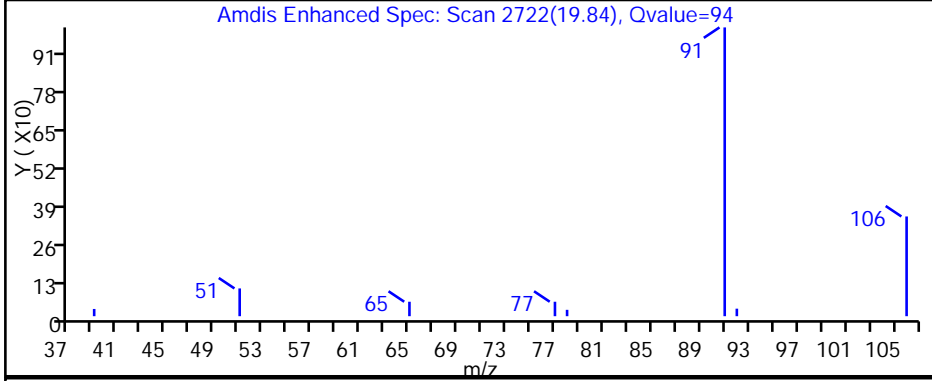
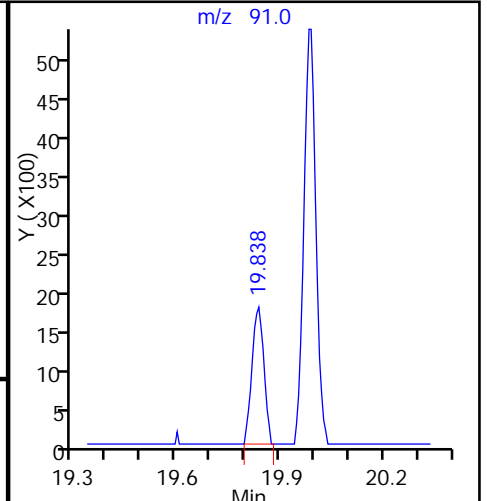
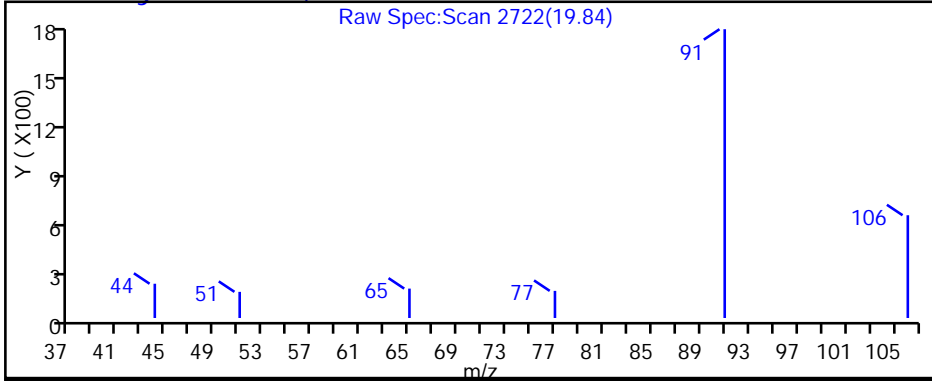
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

85 Ethylbenzene, CAS: 100-41-4



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

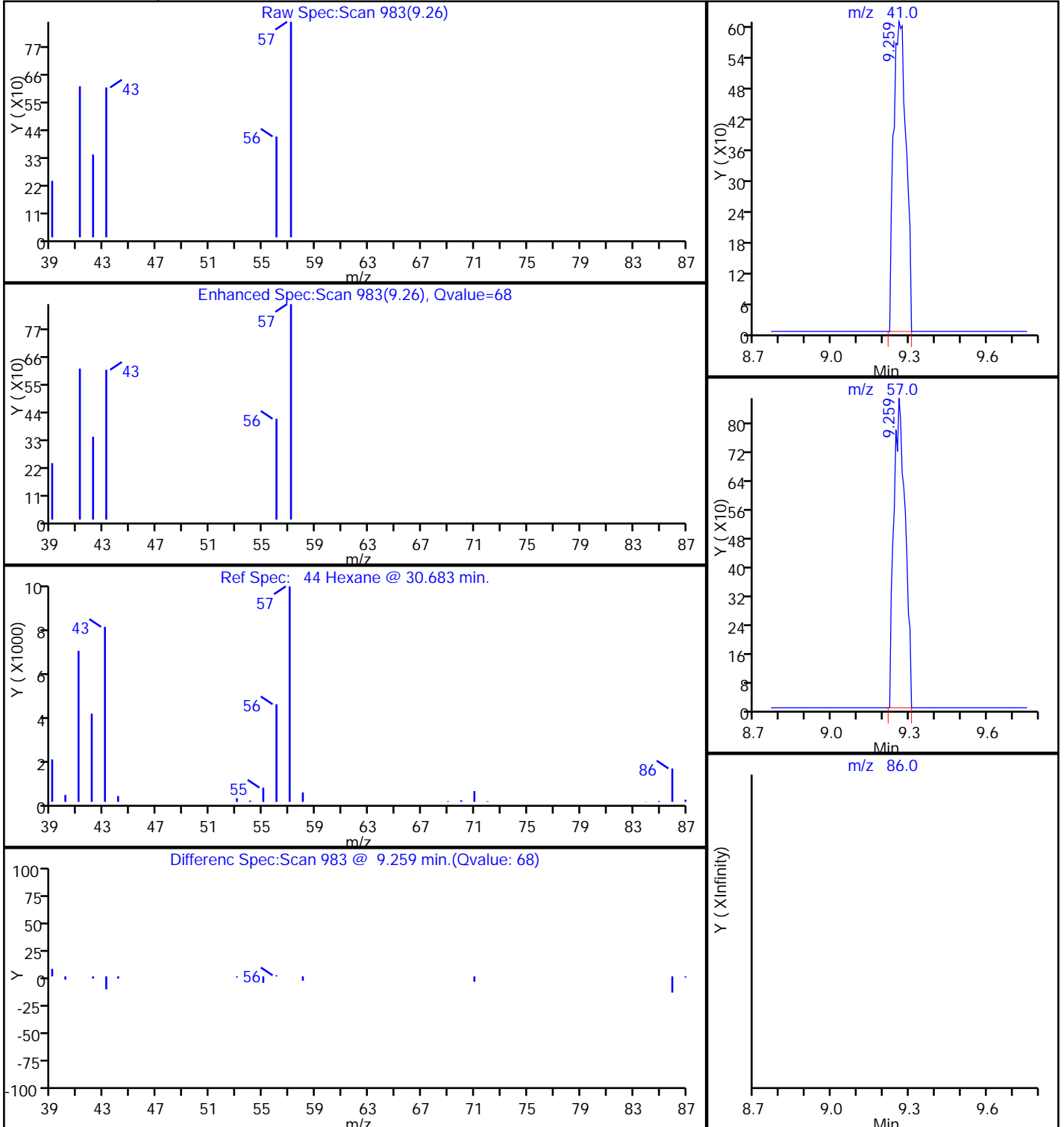
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

44 Hexane, CAS: 110-54-3



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

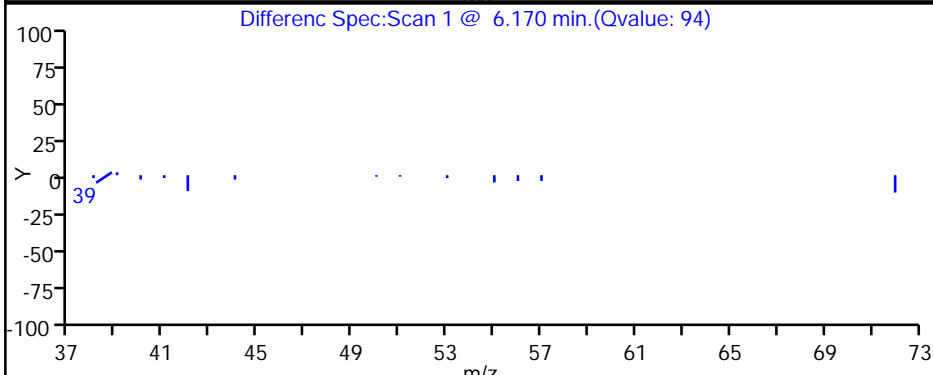
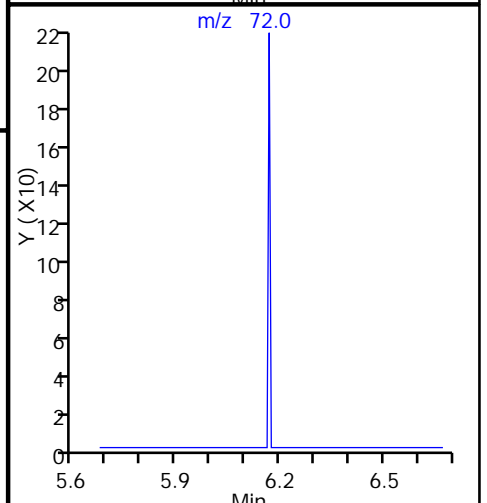
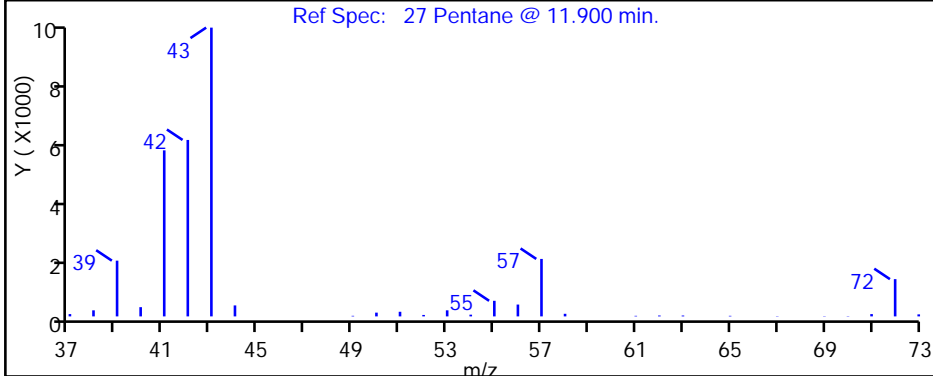
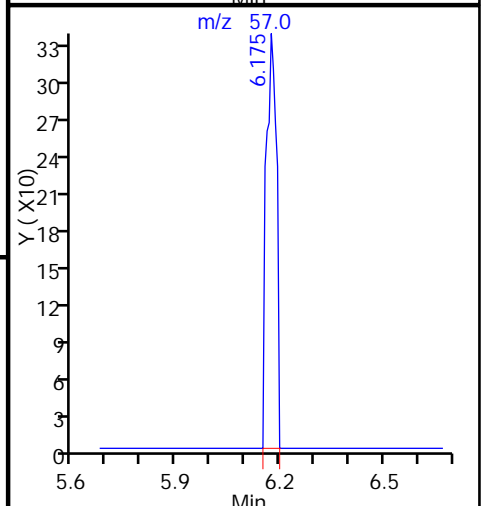
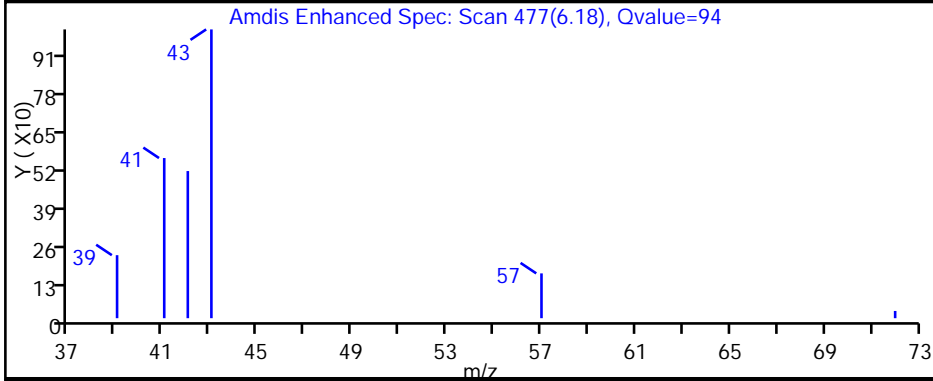
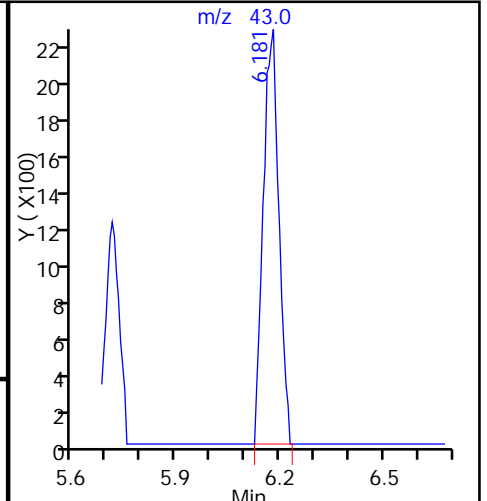
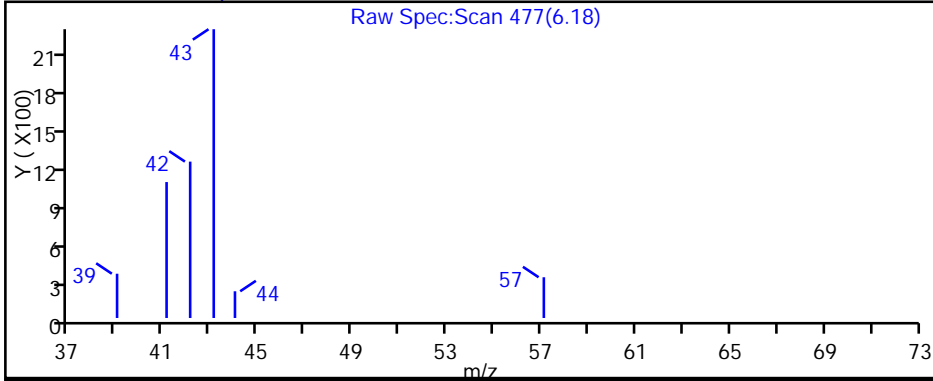
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

27 Pentane, CAS: 109-66-0



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

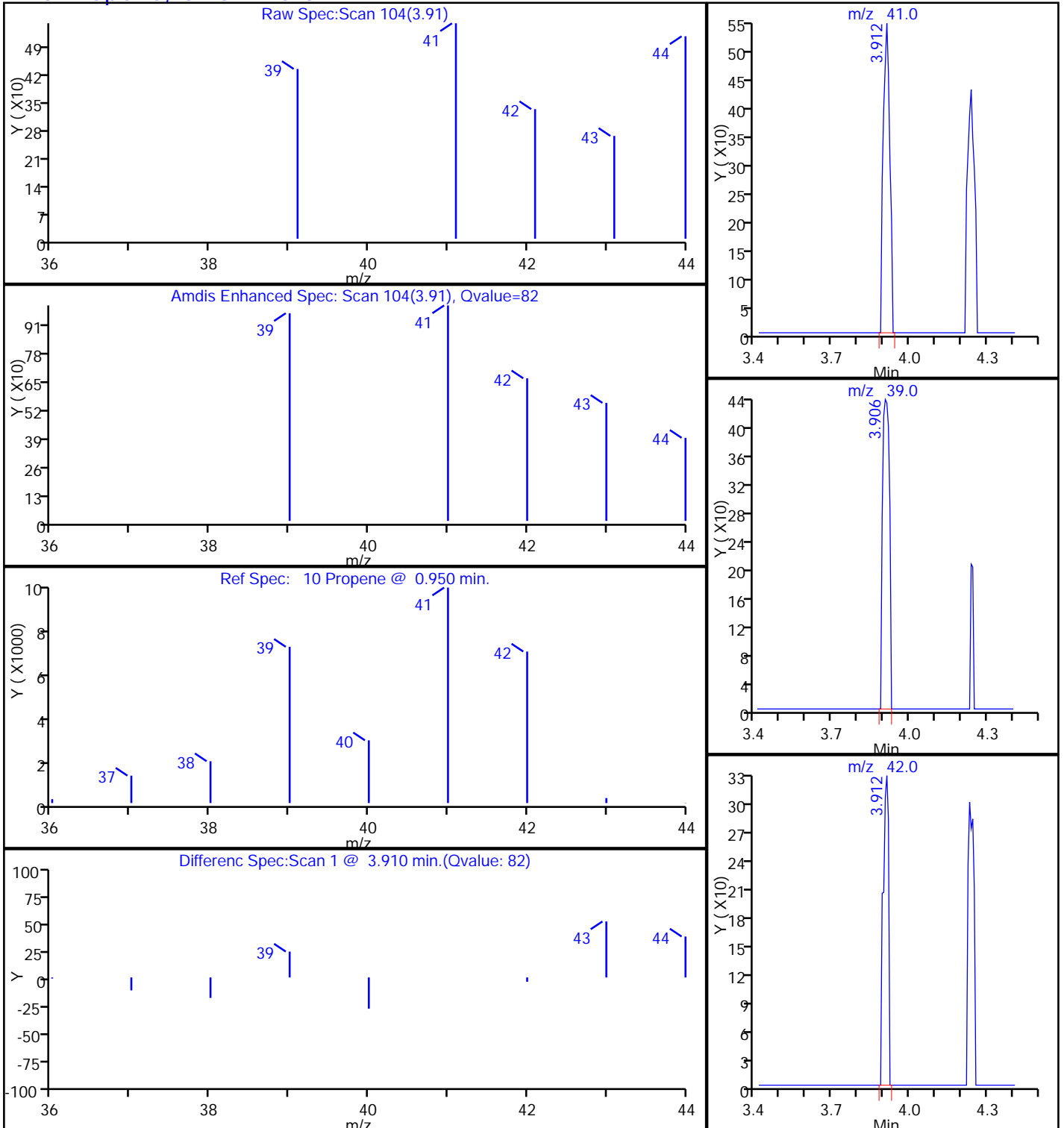
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

10 Propene, CAS: 115-07-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

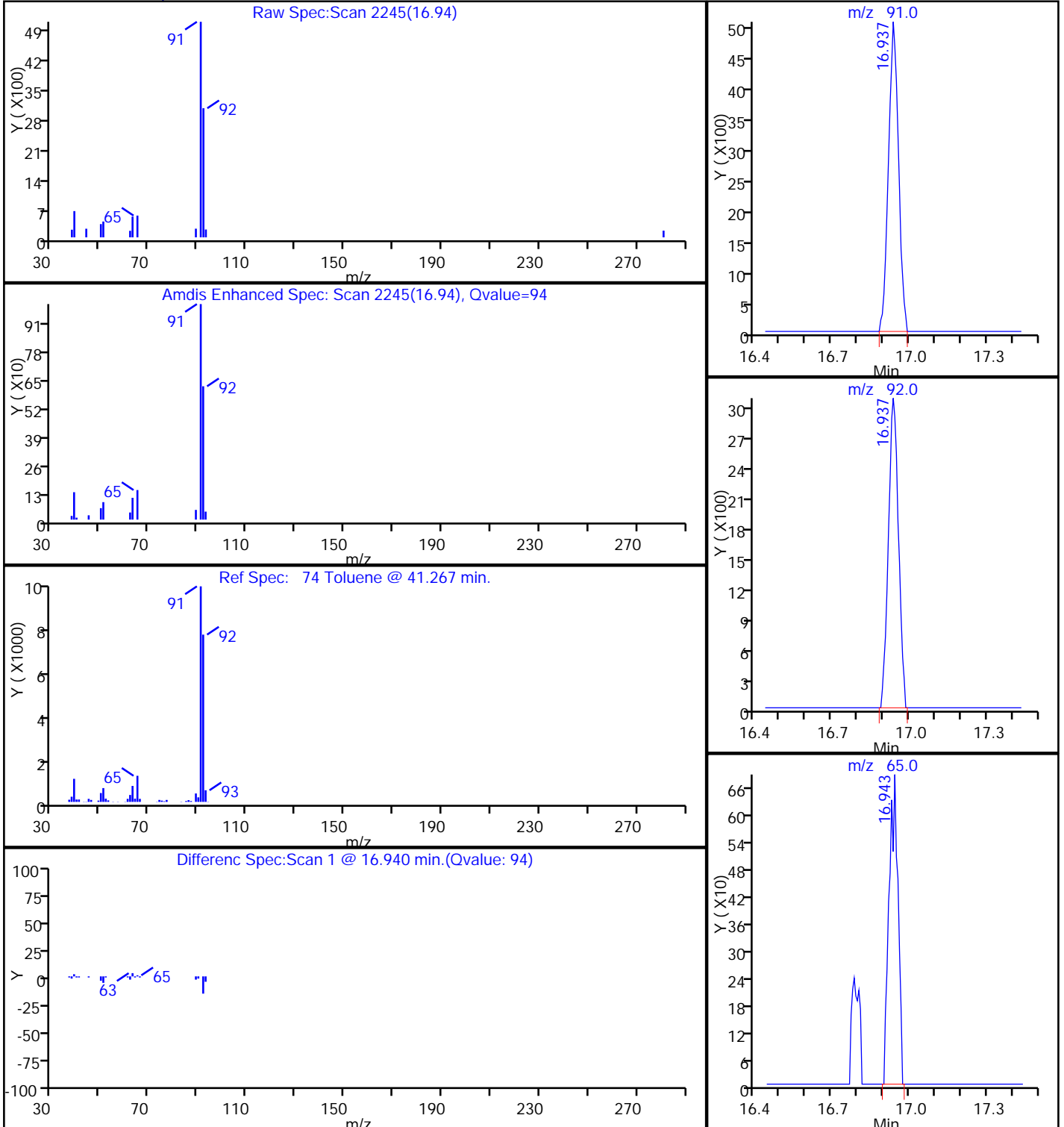
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

74 Toluene, CAS: 108-88-3



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

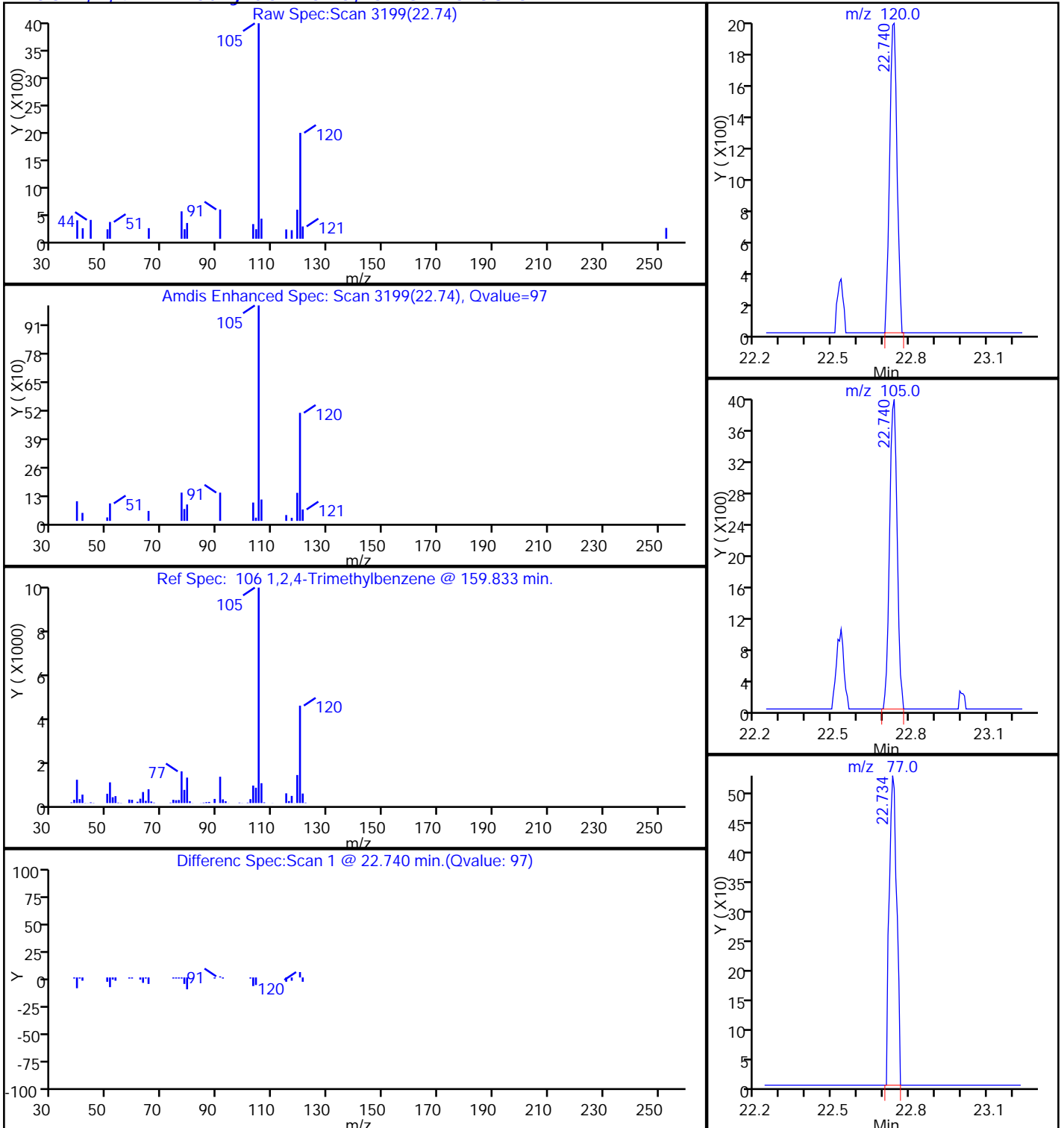
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

106 1,2,4-Trimethylbenzene, CAS: 95-63-6



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

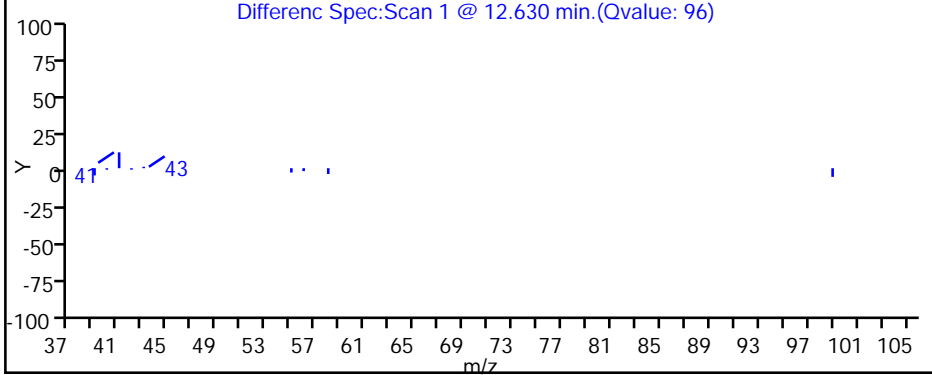
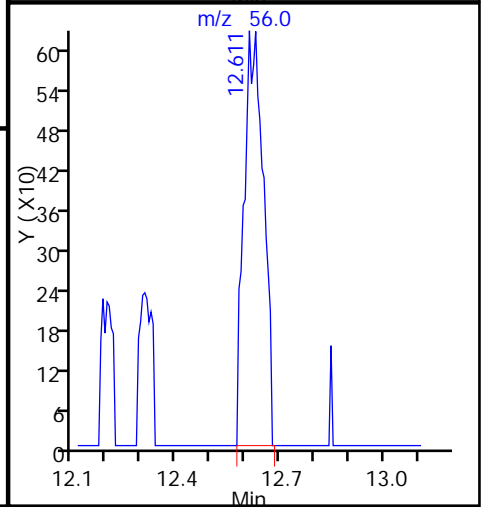
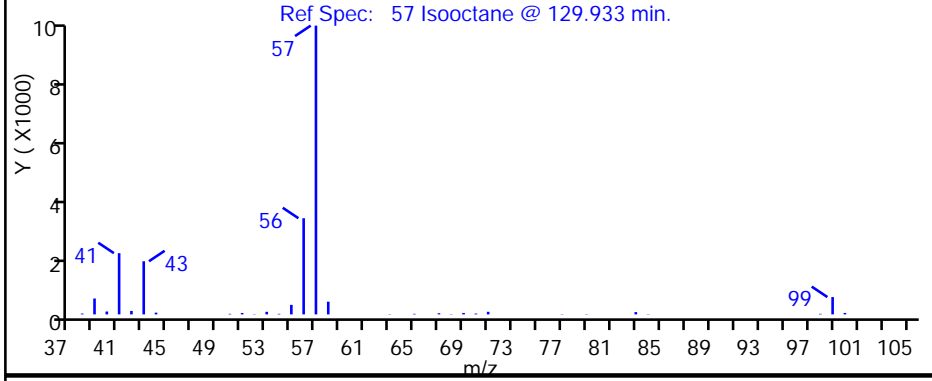
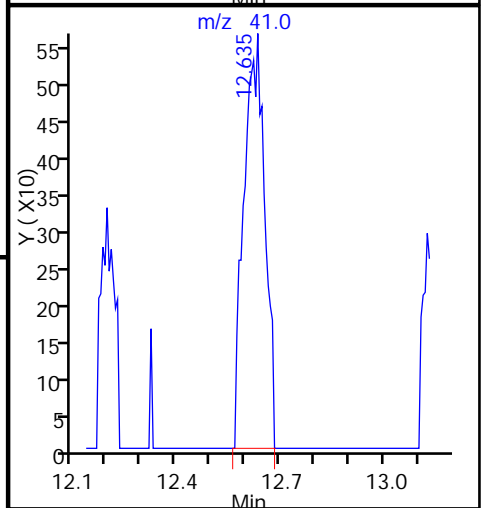
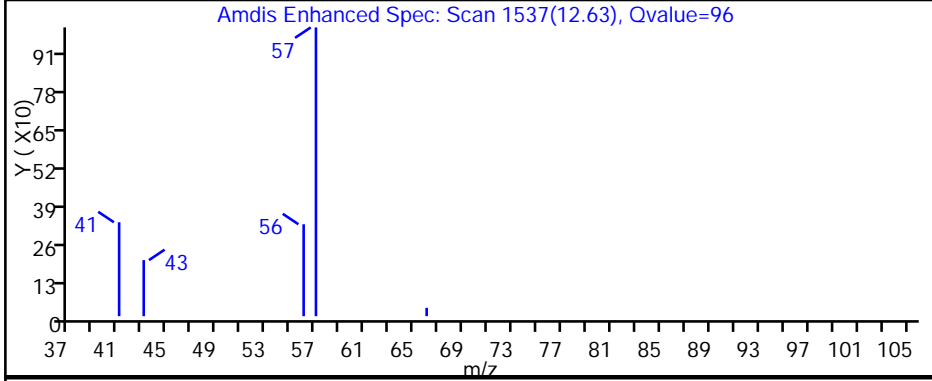
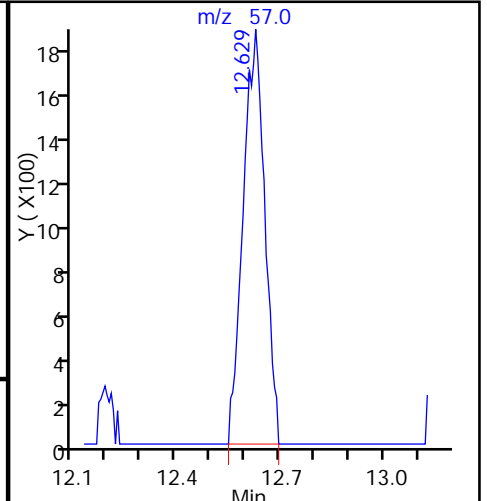
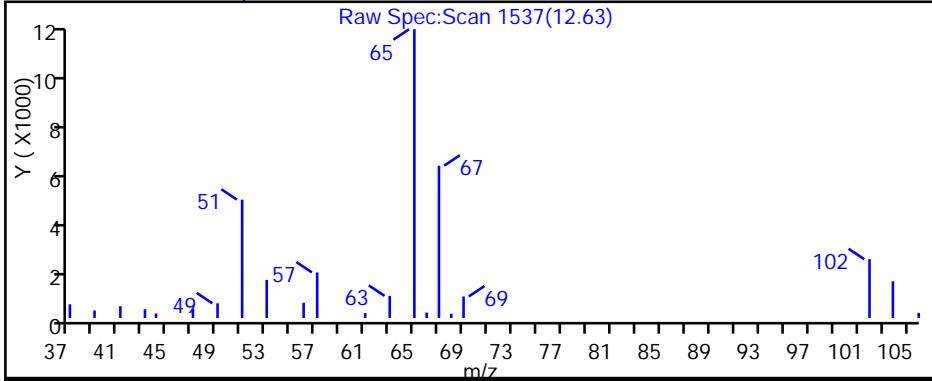
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

57 Isooctane, CAS: 540-84-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

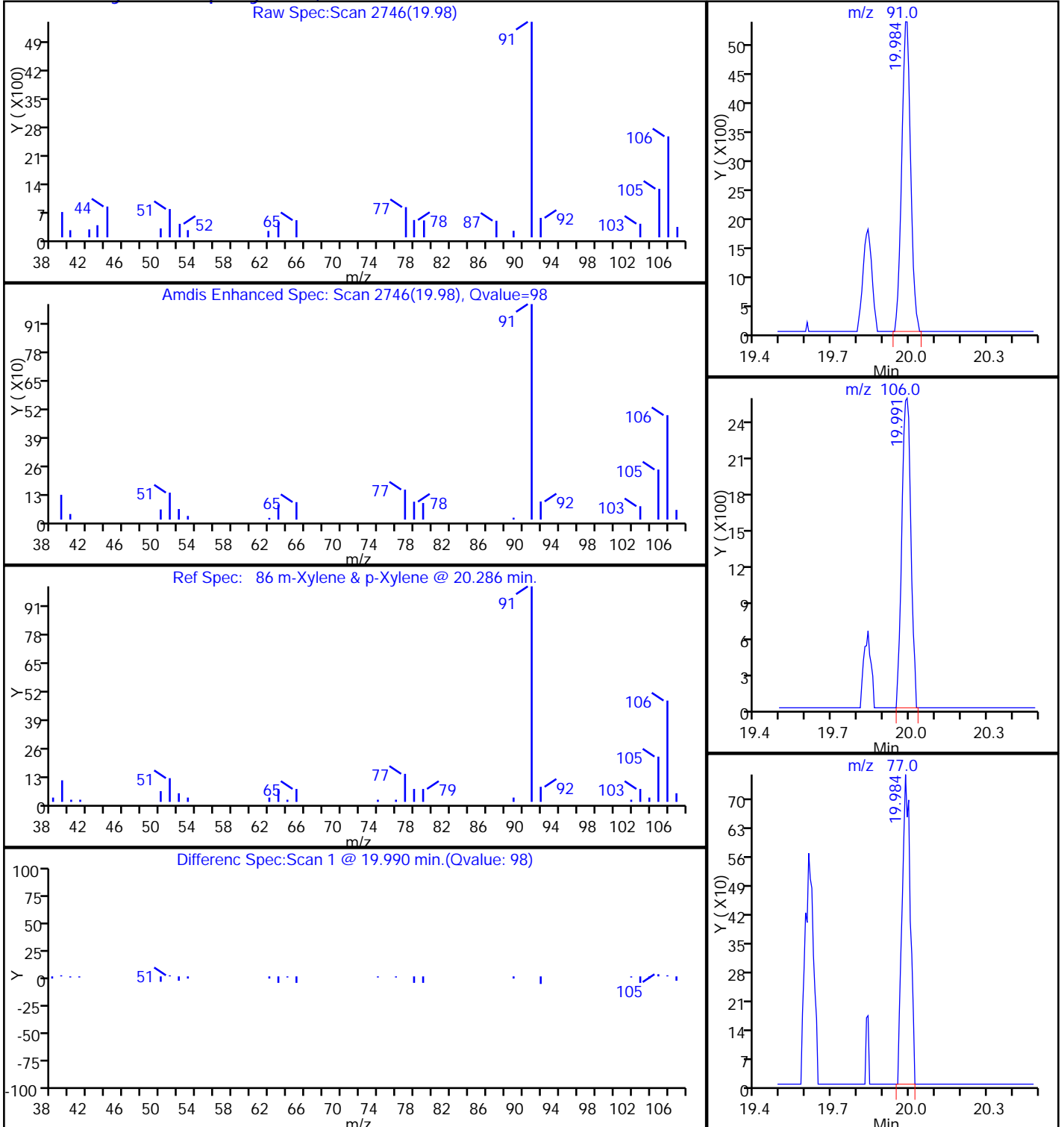
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

86 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D

Injection Date: 01-Oct-2016 06:27:30

Instrument ID: ATMS2

Lims ID: 320-22176-A-2

Lab Sample ID: 320-22176-2

Client ID: 34000642

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 25

Purge Vol: 250.000 mL

Dil. Factor: 1.0000

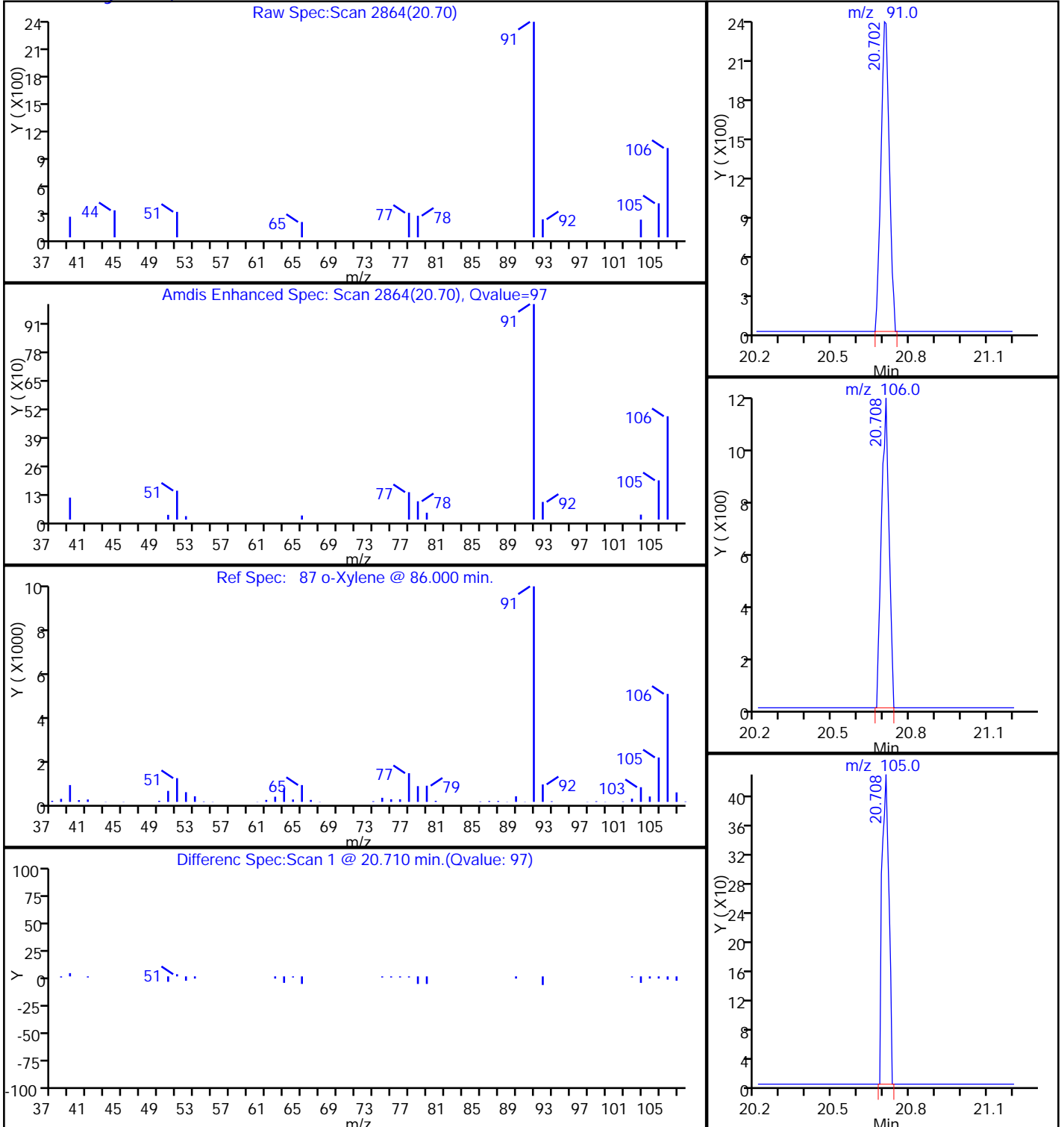
Method: TO15_ATMS2N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

87 o-Xylene, CAS: 95-47-6



TestAmerica Sacramento

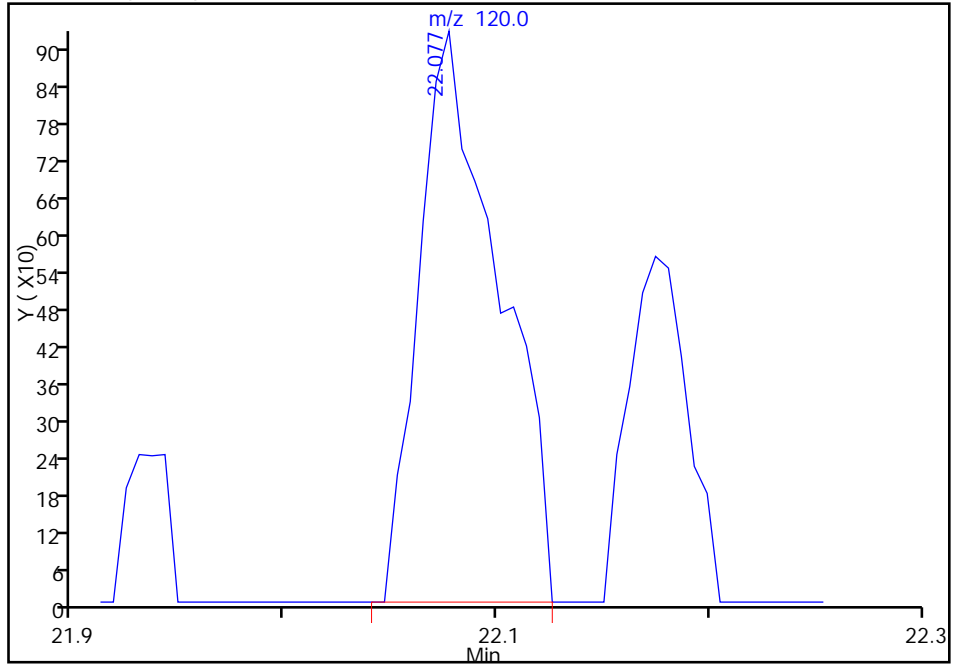
Data File: \\ChromNA\Sacramento\ChromData\ATMS2\20160930-35157.b\16093025.D
Injection Date: 01-Oct-2016 06:27:30 Instrument ID: ATMS2
Lims ID: 320-22176-A-2 Lab Sample ID: 320-22176-2
Client ID: 34000642
Operator ID: KY ALS Bottle#: 4 Worklist Smp#: 25
Purge Vol: 250.000 mL Dil. Factor: 1.0000
Method: TO15_ATMS2N Limit Group: MSA - TO15 - ICAL
Column: RTX Volatiles (0.32 mm) Detector: MS SCAN

98 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

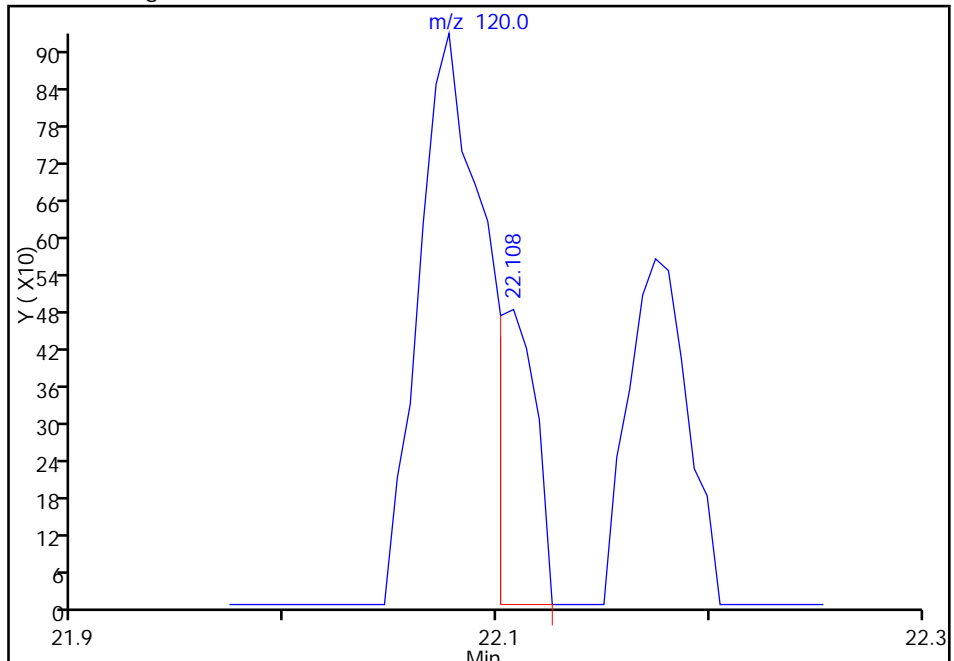
RT: 22.08
Area: 2414
Amount: 0.165872
Amount Units: ppb v/v

Processing Integration Results



RT: 22.11
Area: 606
Amount: 0.041640
Amount Units: ppb v/v

Manual Integration Results



Reviewer: phanthasena, 03-Oct-2016 13:37:56

Audit Action: Manually Integrated

Audit Reason: Split Peak



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001187 Lab Sample ID: 320-22176-3
 Matrix: Air Lab File ID: 16100306.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:03
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.41 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001187 Lab Sample ID: 320-22176-3
 Matrix: Air Lab File ID: 16100306.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:03
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001187 Lab Sample ID: 320-22176-3
 Matrix: Air Lab File ID: 16100306.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:03
 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.: 130498 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100306.D
 Lims ID: 320-22176-A-3
 Client ID: 34001187
 Sample Type: Client
 Inject. Date: 03-Oct-2016 18:03:30 ALS Bottle#: 1 Worklist Smp#: 6
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-3
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:17:58 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:21:47

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.439 | 12.438 | 0.001 | 93 | 37051 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.525 | 14.529 | -0.004 | 96 | 149911 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.436 | 20.441 | -0.005 | 89 | 128730 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.607 | 13.611 | -0.004 | 97 | 52888 | 4.01 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.687 | 17.686 | 0.001 | 98 | 90029 | 4.03 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.352 | 22.350 | 0.002 | 90 | 63941 | 3.68 | |
| 14 Propene | 41 | 4.266 | 4.258 | 0.008 | 25 | 977 | 0.0653 | |
| 31 Acetone | 43 | 7.714 | 7.706 | 0.008 | 96 | 6363 | 0.4110 | |
| 48 Carbon disulfide | 76 | 9.052 | 9.044 | 0.008 | 98 | 973 | 0.0362 | |
| 88 n-Octane | 43 | 17.687 | 17.692 | -0.005 | 42 | 1213 | 0.0285 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100306.D

Injection Date: 03-Oct-2016 18:03:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-3

Lab Sample ID: 320-22176-3

Worklist Smp#: 6

Client ID: 34001187

Purge Vol: 500.000 mL

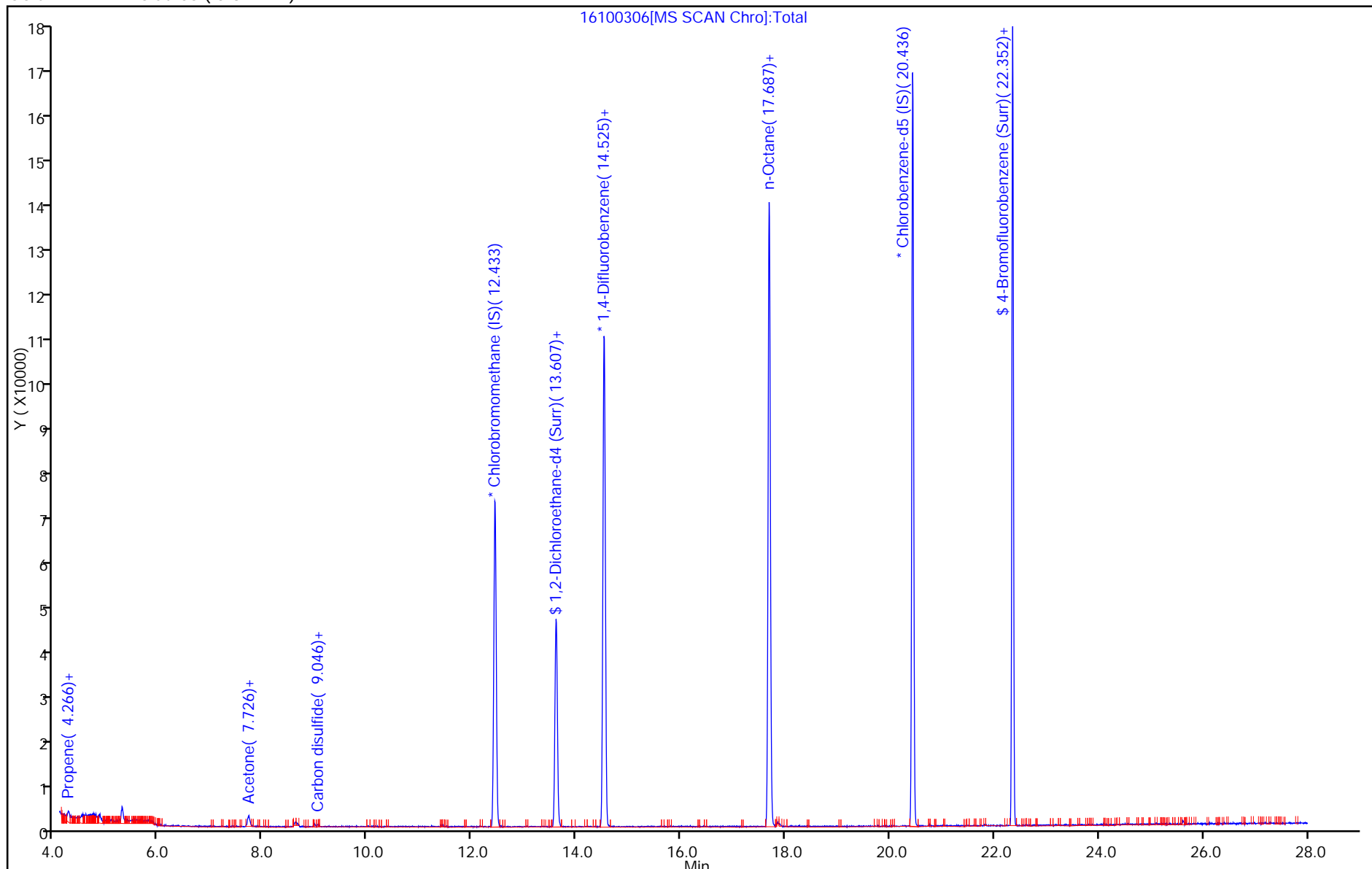
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100306.D

Injection Date: 03-Oct-2016 18:03:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-3

Lab Sample ID: 320-22176-3

Client ID: 34001187

Operator ID: KY

ALS Bottle#: 1 Worklist Smp#: 6

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

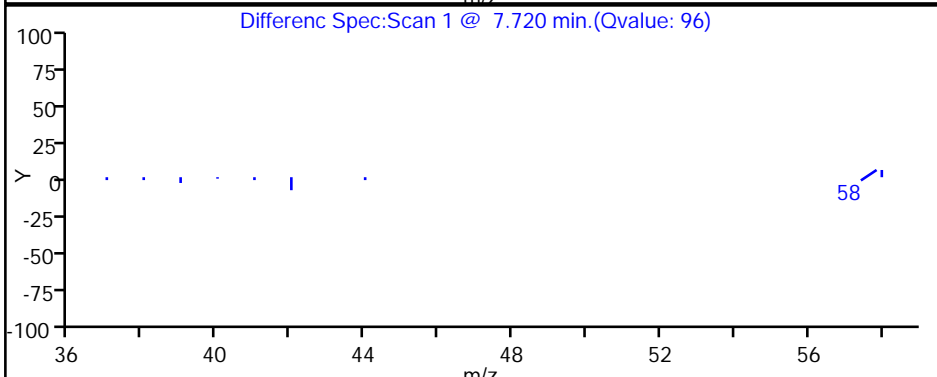
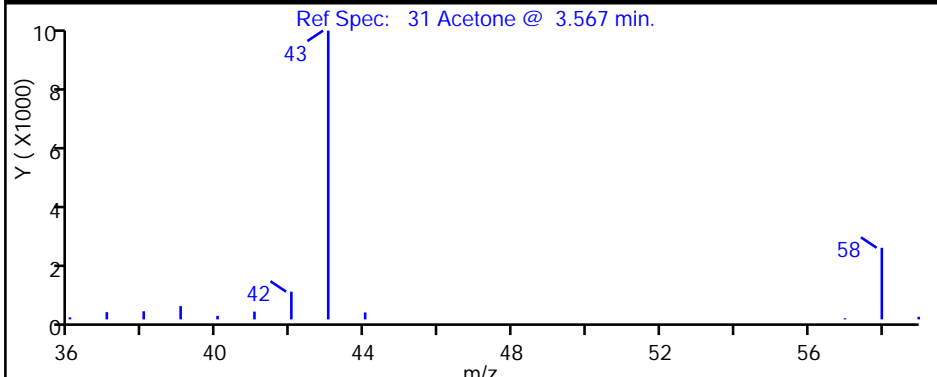
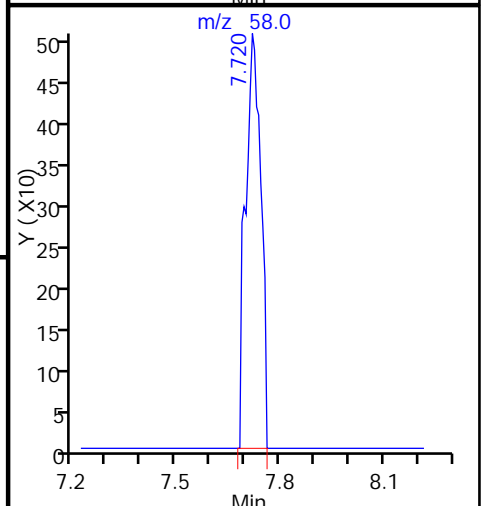
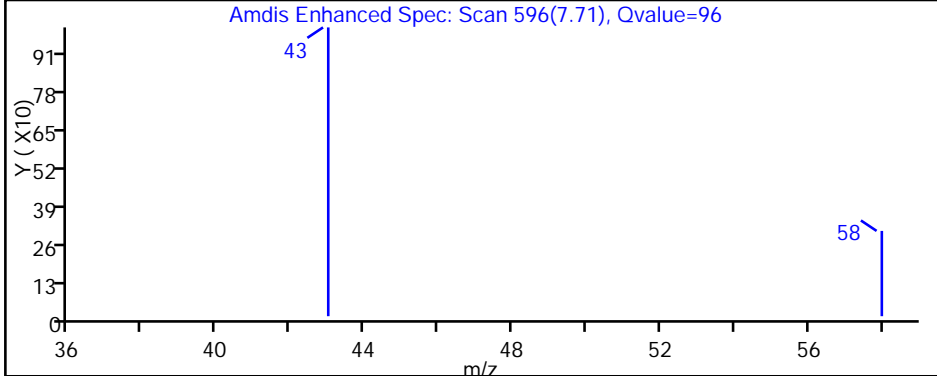
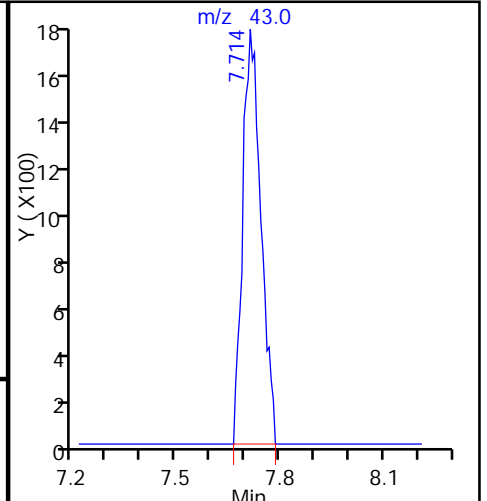
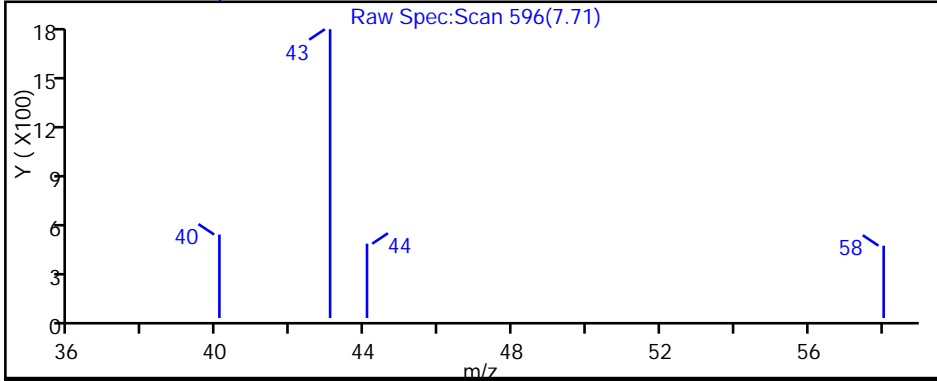
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000913 Lab Sample ID: 320-22176-4
 Matrix: Air Lab File ID: 16100307.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:52
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.38 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000913 Lab Sample ID: 320-22176-4
 Matrix: Air Lab File ID: 16100307.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:52
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000913 Lab Sample ID: 320-22176-4
 Matrix: Air Lab File ID: 16100307.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 18:52
 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.: 130498 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) | 98 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100307.D
 Lims ID: 320-22176-A-4
 Client ID: 34000913
 Sample Type: Client
 Inject. Date: 03-Oct-2016 18:52:30 ALS Bottle#: 2 Worklist Smp#: 7
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-4
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:22:44 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:22:44

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.432 | 12.438 | -0.006 | 94 | 38309 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.524 | 14.529 | -0.005 | 96 | 153243 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.441 | 20.441 | 0.000 | 89 | 135266 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.606 | 13.611 | -0.005 | 96 | 53260 | 3.90 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 98 | 91066 | 3.99 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.351 | 22.350 | 0.001 | 90 | 69496 | 3.81 | |
| 14 Propene | 41 | 4.259 | 4.258 | 0.001 | 28 | 856 | 0.0553 | |
| 31 Acetone | 43 | 7.713 | 7.706 | 0.007 | 96 | 6043 | 0.3775 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100307.D

Injection Date: 03-Oct-2016 18:52:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-4

Lab Sample ID: 320-22176-4

Worklist Smp#: 7

Client ID: 34000913

Purge Vol: 500.000 mL

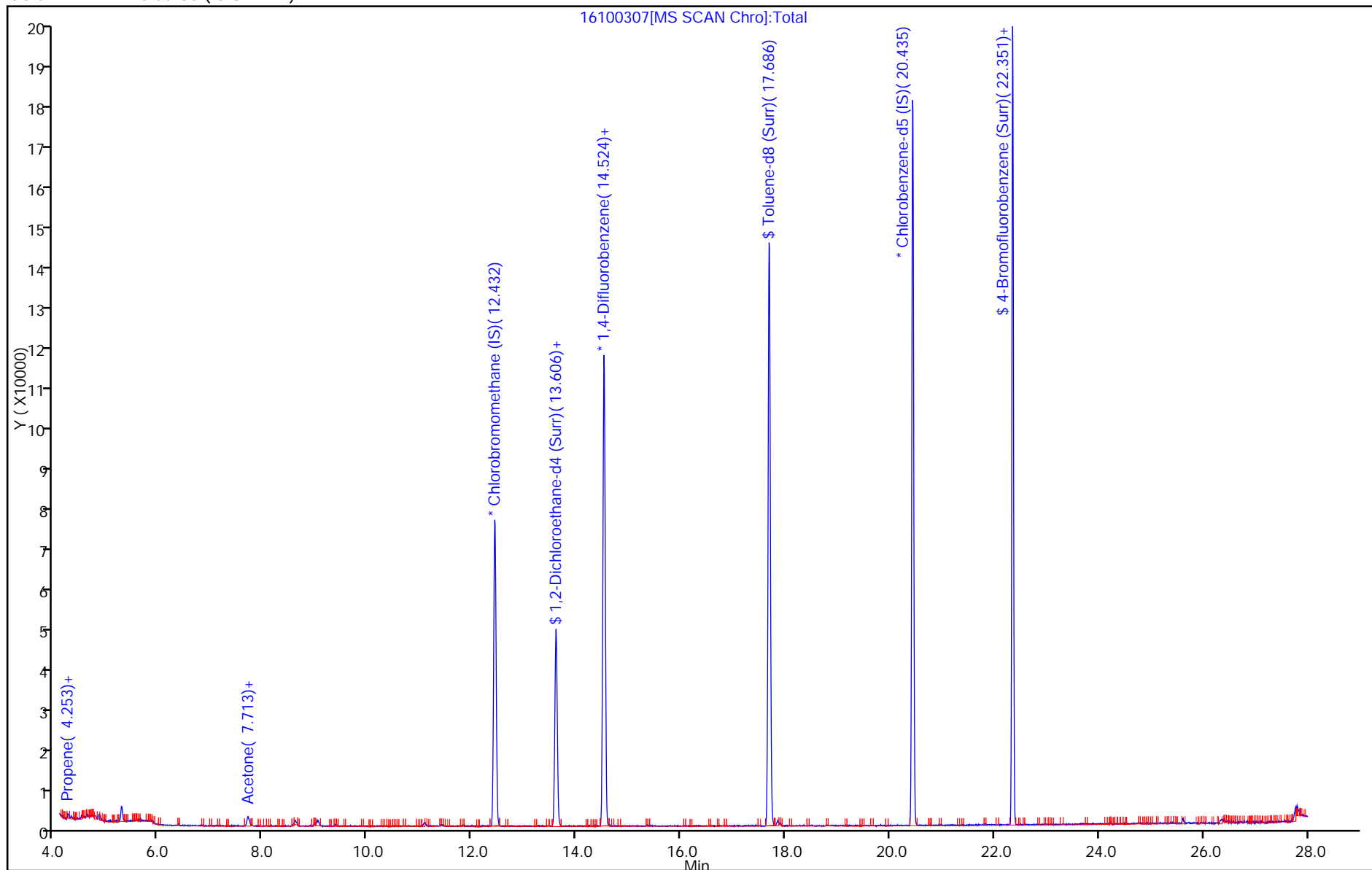
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100307.D

Injection Date: 03-Oct-2016 18:52:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-4

Lab Sample ID: 320-22176-4

Client ID: 34000913

Operator ID: KY

ALS Bottle#: 2 Worklist Smp#: 7

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

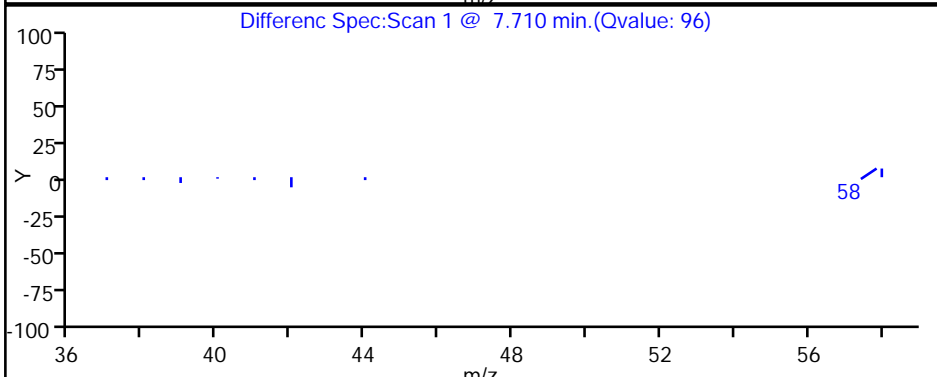
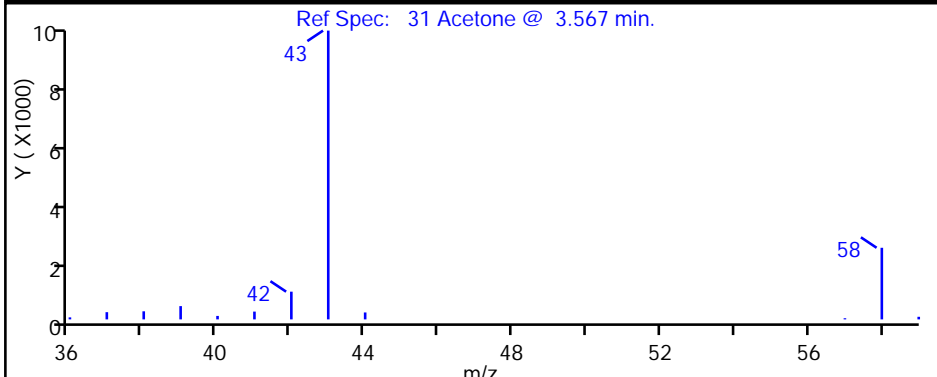
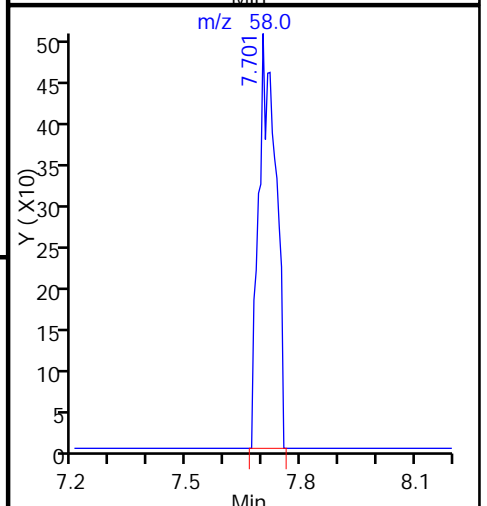
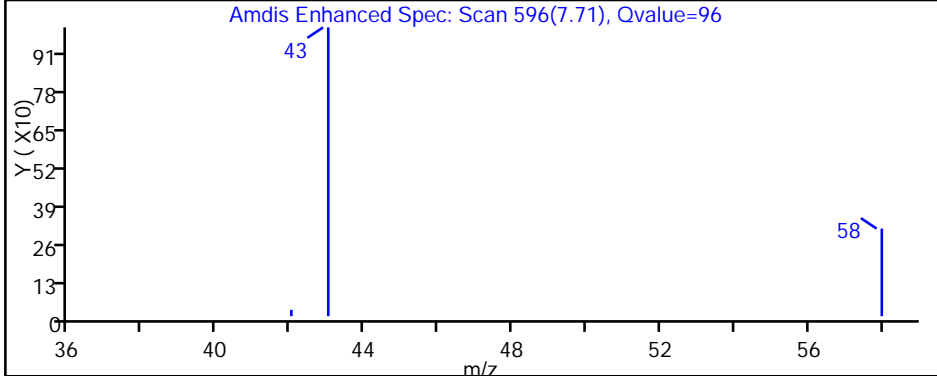
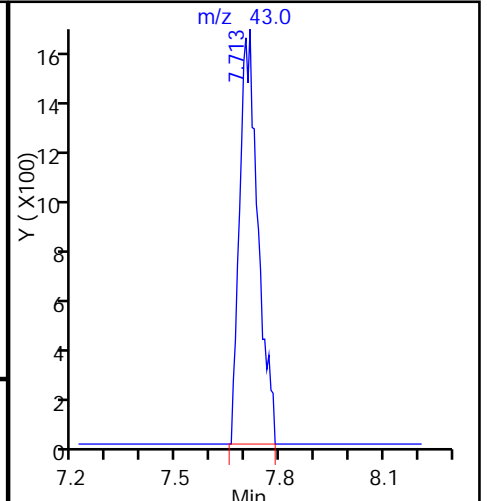
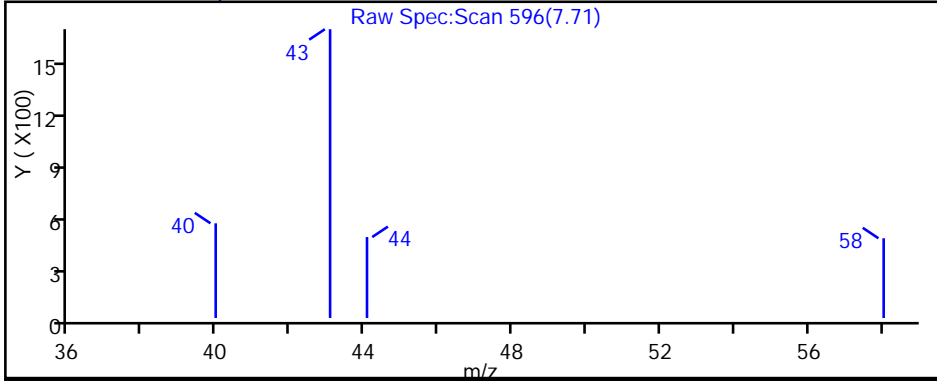
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001671 Lab Sample ID: 320-22176-5
 Matrix: Air Lab File ID: 16100308.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 19:41
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 1.7 | 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) | NC | | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001671 Lab Sample ID: 320-22176-5
 Matrix: Air Lab File ID: 16100308.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 19:41
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 108-88-3 | Toluene | 0.080 | J | 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001671 Lab Sample ID: 320-22176-5
 Matrix: Air Lab File ID: 16100308.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 19:41
 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.: 130498 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) | 93 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 98 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D
 Lims ID: 320-22176-A-5
 Client ID: 34001671
 Sample Type: Client
 Inject. Date: 03-Oct-2016 19:41:30 ALS Bottle#: 3 Worklist Smp#: 8
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-5
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:24:59 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:24:59

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.437 | 12.438 | -0.001 | 94 | 37793 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.529 | 14.529 | 0.000 | 96 | 148077 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.440 | 20.441 | -0.001 | 89 | 132844 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.611 | 13.611 | 0.000 | 97 | 52499 | 3.90 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.685 | 17.686 | -0.001 | 98 | 88400 | 4.00 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.350 | 22.350 | 0.000 | 90 | 66714 | 3.72 | |
| 14 Propene | 41 | 4.264 | 4.258 | 0.006 | 26 | 1278 | 0.0837 | |
| 31 Acetone | 43 | 7.694 | 7.706 | -0.012 | 99 | 26853 | 1.70 | |
| 47 Methylene Chloride | 49 | 8.983 | 8.977 | 0.006 | 66 | 1342 | 0.0713 | |
| 54 2-Butanone (MEK) | 72 | 11.415 | 11.375 | 0.040 | 94 | 314 | NC | |
| 85 Toluene | 91 | 17.837 | 17.844 | -0.007 | 90 | 2607 | 0.0799 | |
| 115 1,2,4-Trimethylbenzene | 120 | 23.414 | 23.408 | 0.006 | 89 | 698 | 0.0928 | |

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D

Injection Date: 03-Oct-2016 19:41:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-5

Lab Sample ID: 320-22176-5

Worklist Smp#: 8

Client ID: 34001671

Purge Vol: 500.000 mL

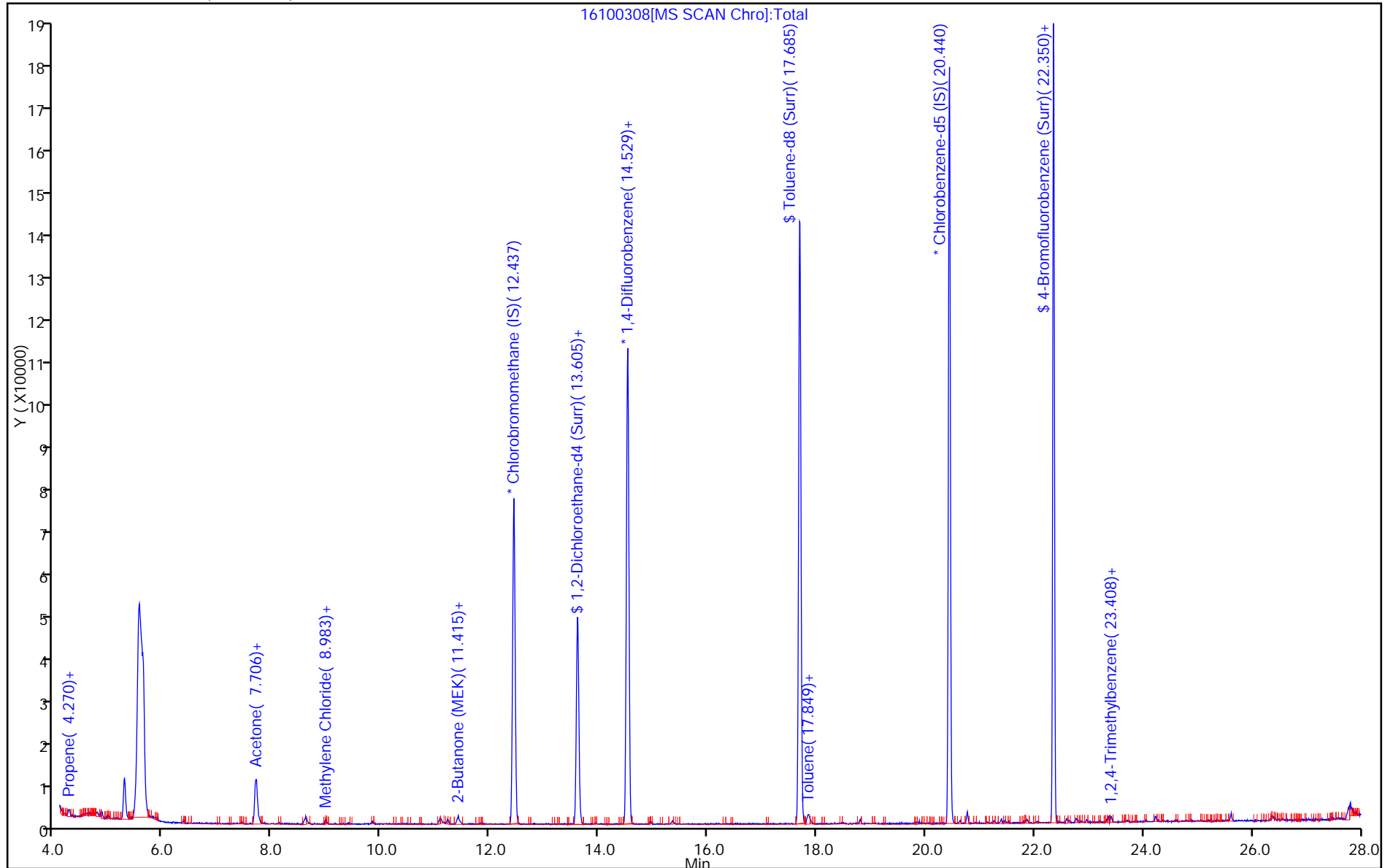
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D

Injection Date: 03-Oct-2016 19:41:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-5

Lab Sample ID: 320-22176-5

Client ID: 34001671

Operator ID: KY

ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

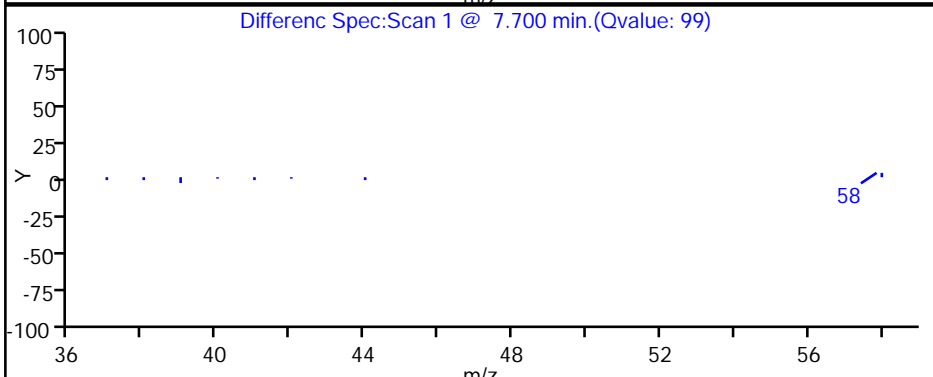
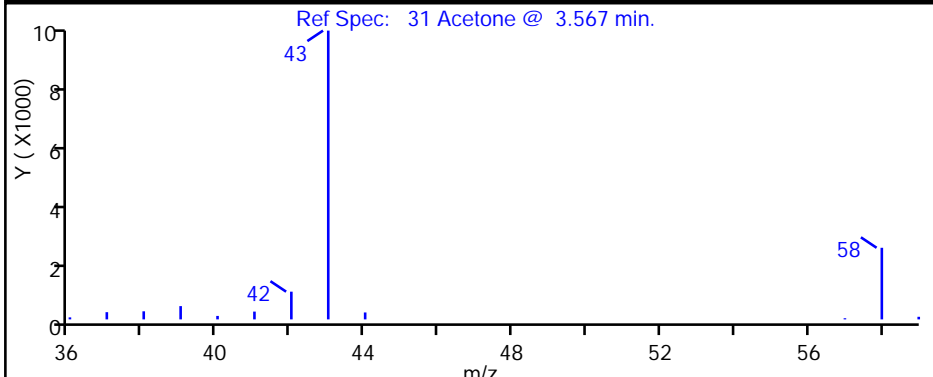
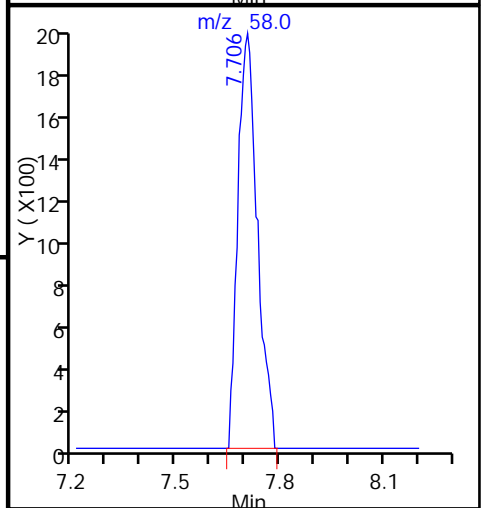
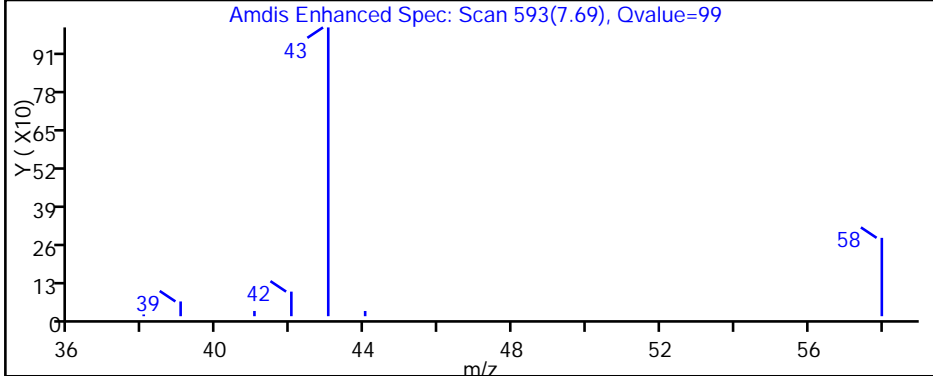
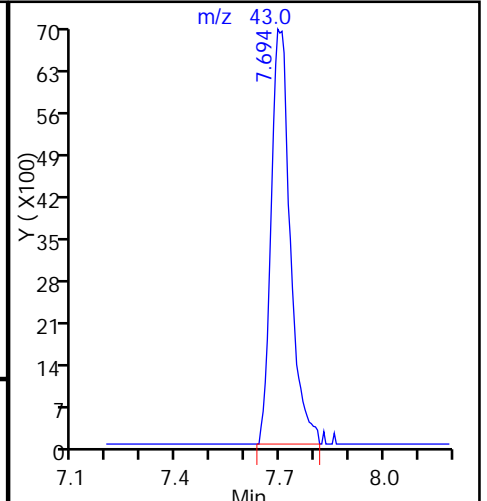
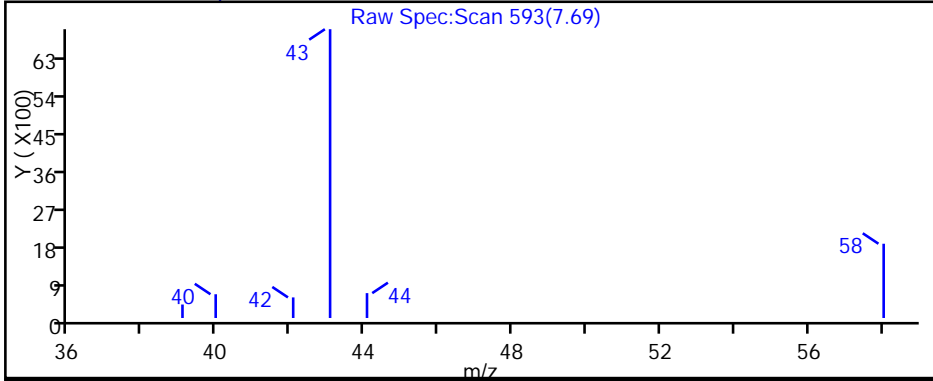
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D

Injection Date: 03-Oct-2016 19:41:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-5

Lab Sample ID: 320-22176-5

Client ID: 34001671

Operator ID: KY

ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

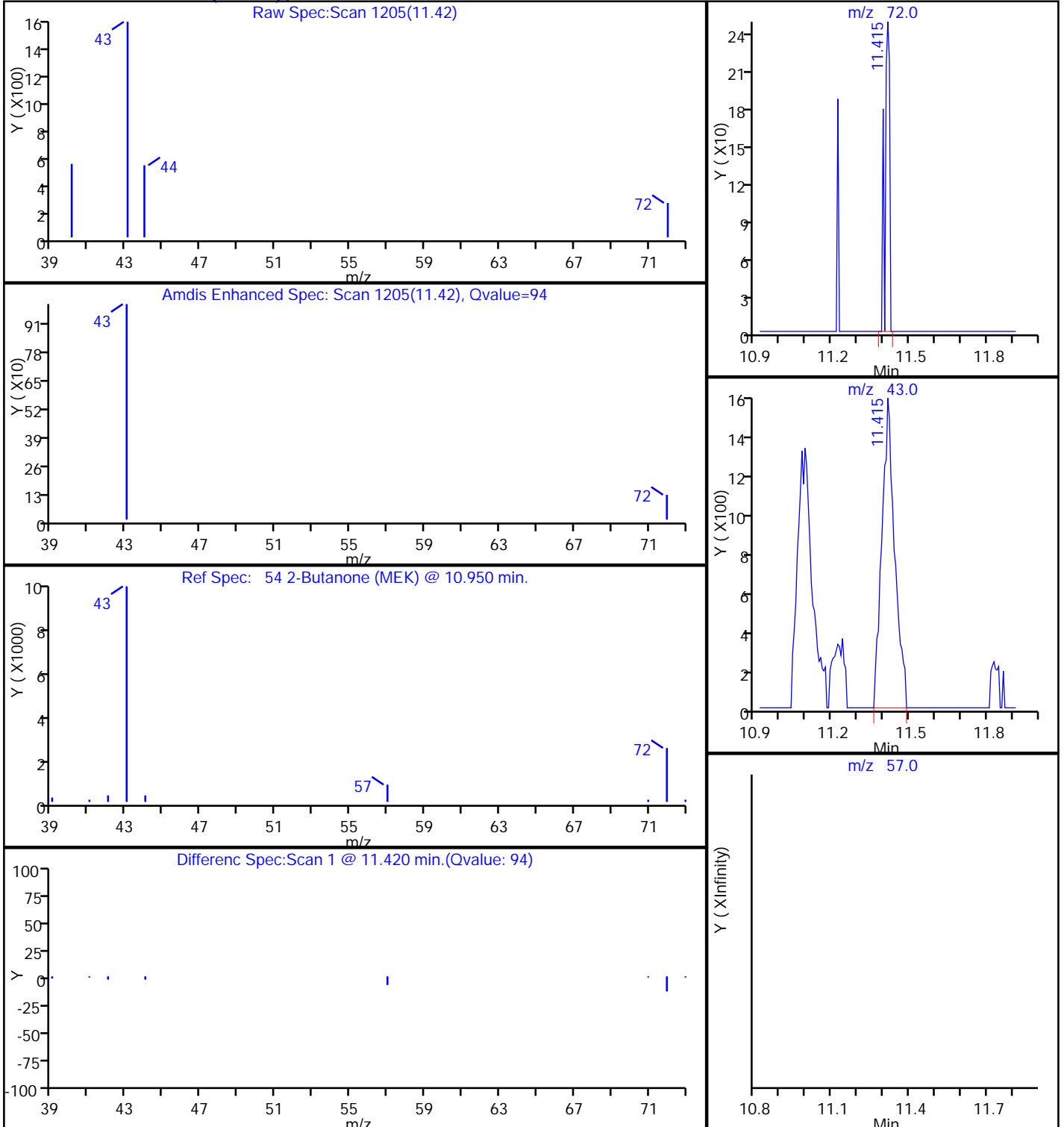
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

54 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100308.D

Injection Date: 03-Oct-2016 19:41:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-5

Lab Sample ID: 320-22176-5

Client ID: 34001671

Operator ID: KY

ALS Bottle#: 3 Worklist Smp#: 8

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

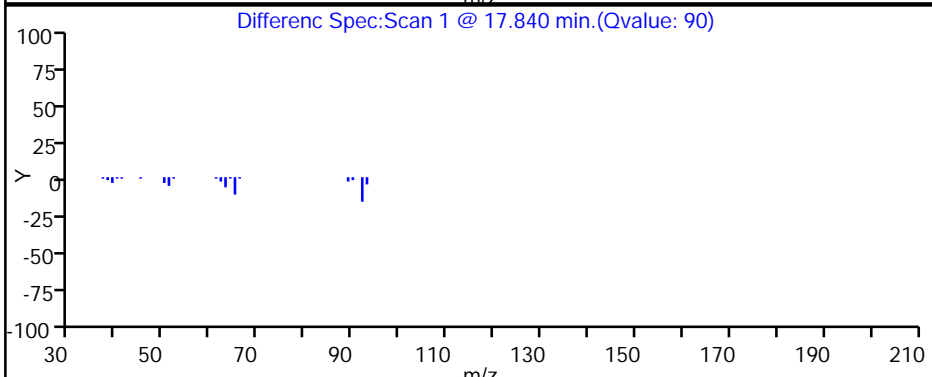
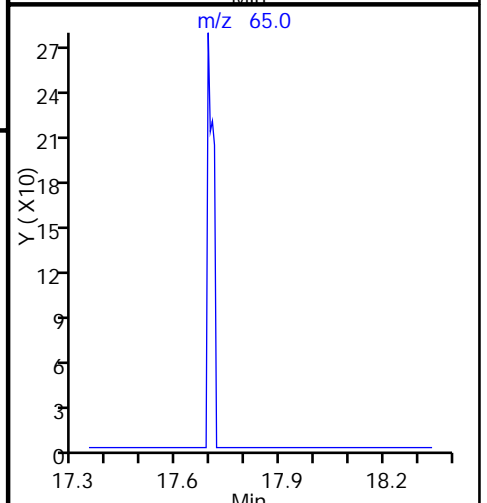
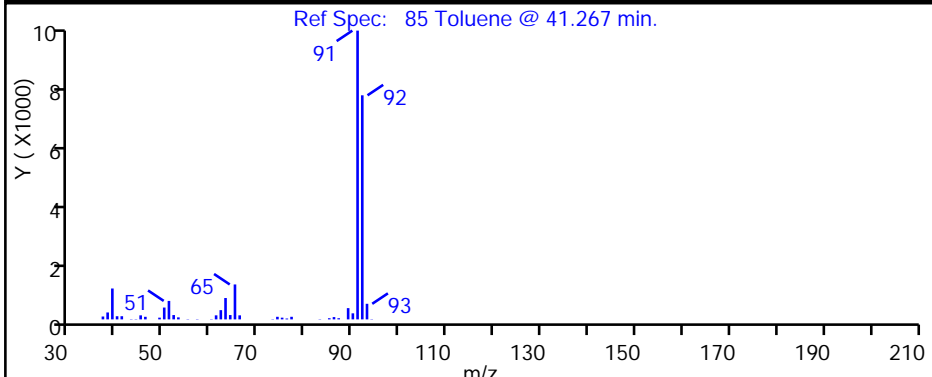
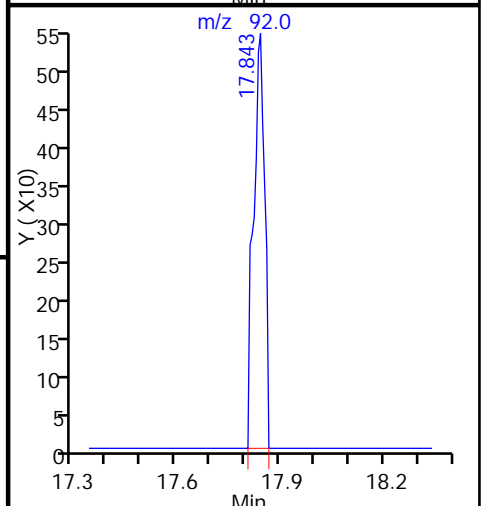
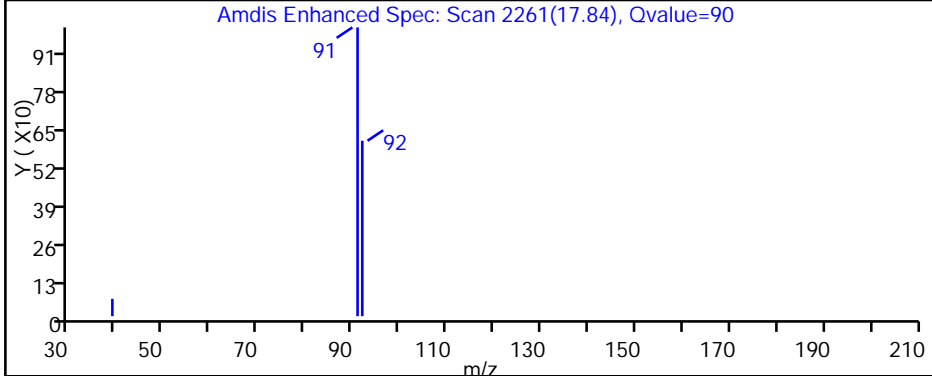
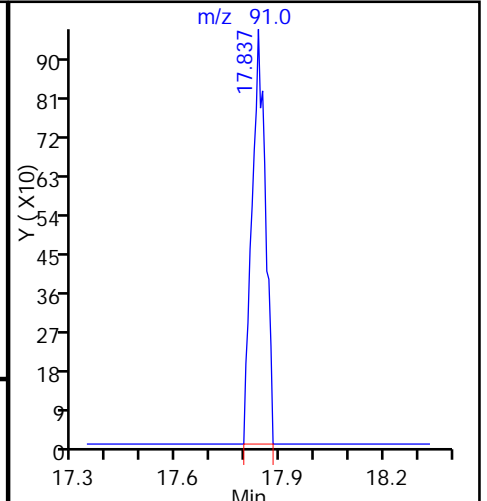
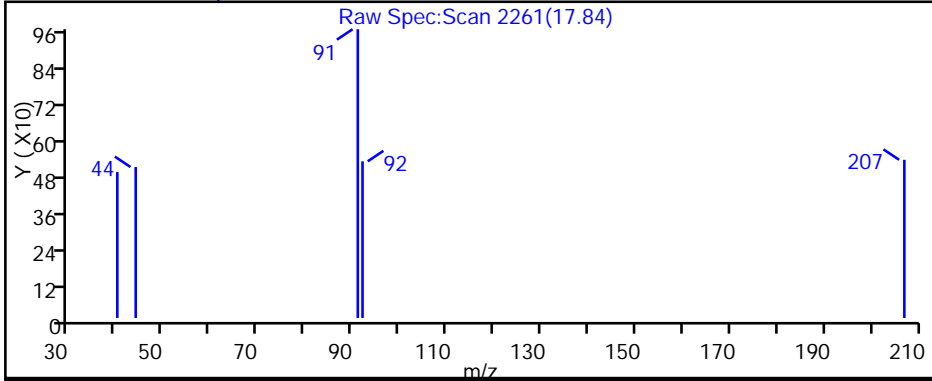
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

85 Toluene, CAS: 108-88-3



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 8440 Lab Sample ID: 320-22176-6
 Matrix: Air Lab File ID: 16100309.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 20:32
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 1.7 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 8440 Lab Sample ID: 320-22176-6
 Matrix: Air Lab File ID: 16100309.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 20:32
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 8440 Lab Sample ID: 320-22176-6
 Matrix: Air Lab File ID: 16100309.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 20:32
 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.: 130498 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) | 91 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100309.D
 Lims ID: 320-22176-A-6
 Client ID: 8440
 Sample Type: Client
 Inject. Date: 03-Oct-2016 20:32:30 ALS Bottle#: 4 Worklist Smp#: 9
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-6
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:26:40 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:26:40

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.438 | 12.438 | 0.000 | 94 | 37245 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.530 | 14.529 | 0.001 | 96 | 151337 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.435 | 20.441 | -0.006 | 89 | 129536 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.611 | 13.611 | 0.000 | 97 | 52692 | 3.97 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 97 | 88105 | 3.91 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.350 | 22.350 | 0.000 | 90 | 63888 | 3.66 | |
| 14 Propene | 41 | 4.270 | 4.258 | 0.012 | 23 | 1107 | 0.0736 | |
| 31 Acetone | 43 | 7.694 | 7.706 | -0.012 | 98 | 26088 | 1.68 | |
| 85 Toluene | 91 | 17.844 | 17.844 | 0.000 | 89 | 1046 | 0.0314 | |

Reagents:

VAMSIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100309.D

Injection Date: 03-Oct-2016 20:32:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-6

Lab Sample ID: 320-22176-6

Worklist Smp#: 9

Client ID: 8440

Purge Vol: 500.000 mL

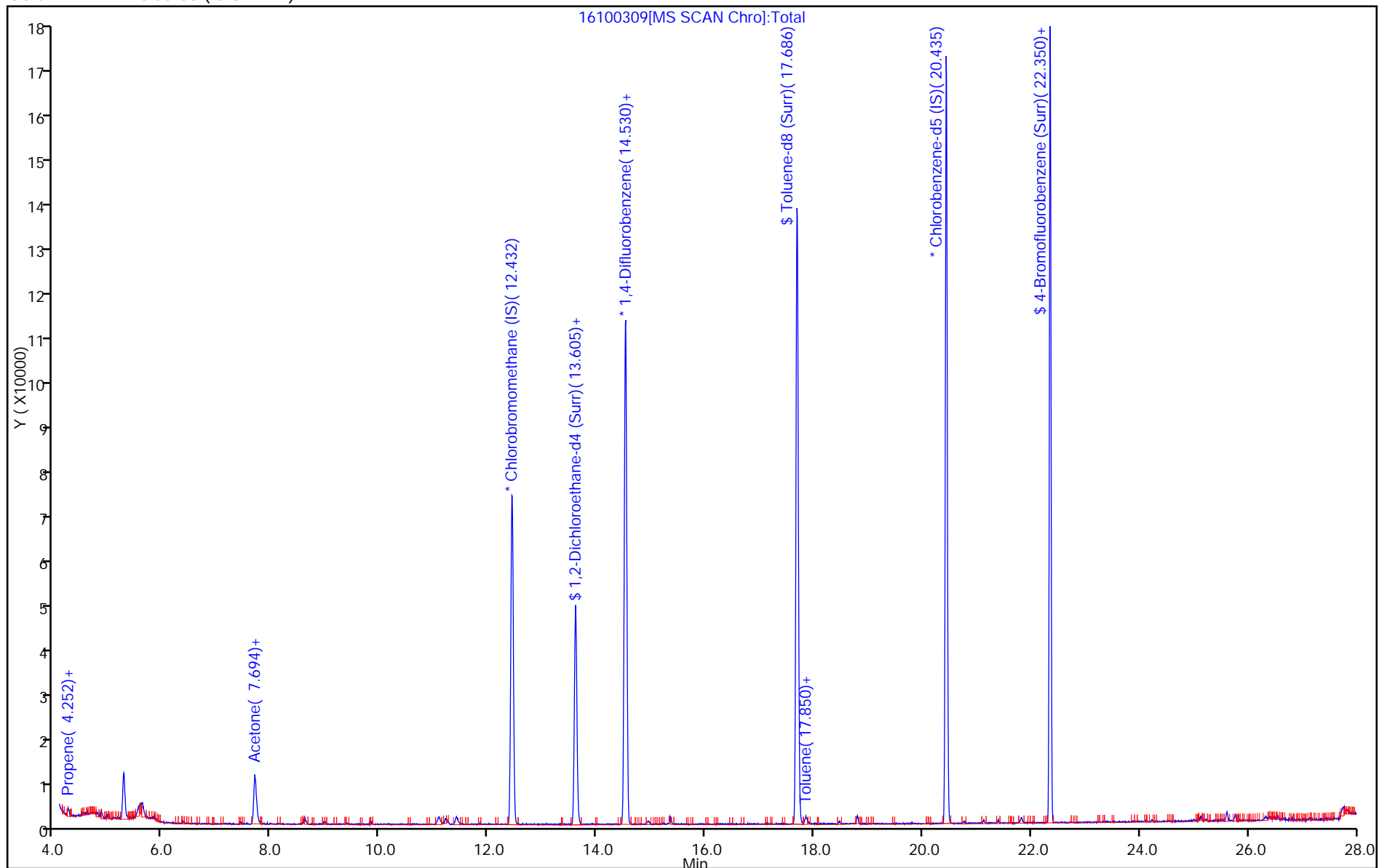
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100309.D

Injection Date: 03-Oct-2016 20:32:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-6

Lab Sample ID: 320-22176-6

Client ID: 8440

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 9

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

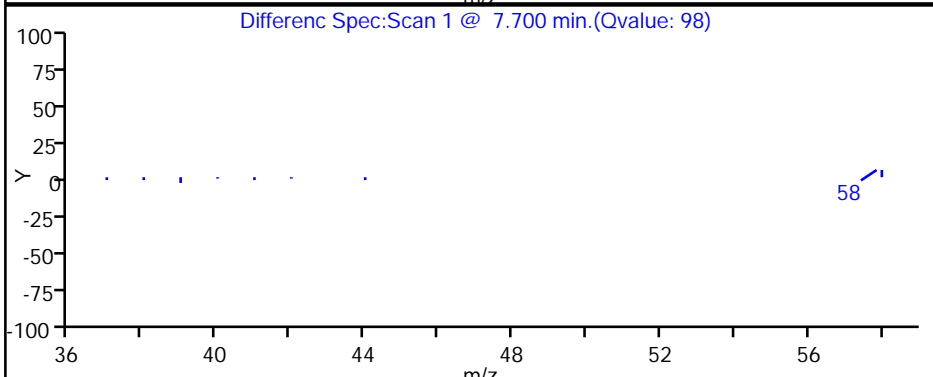
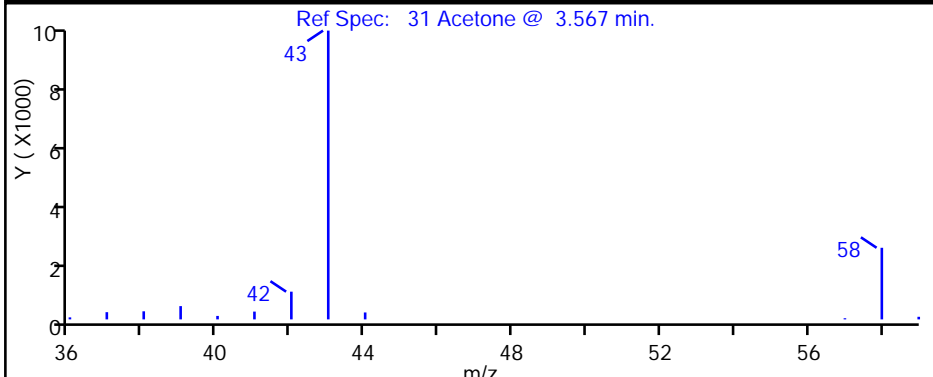
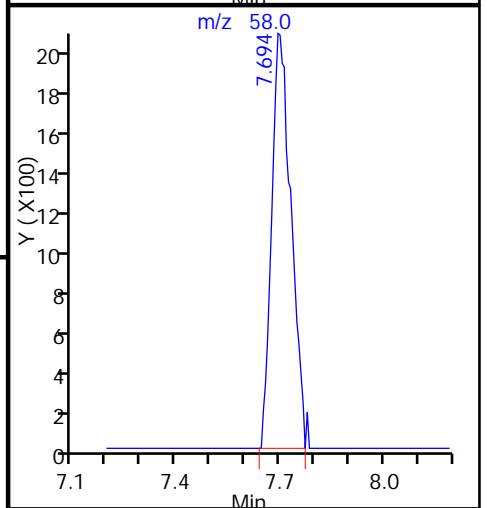
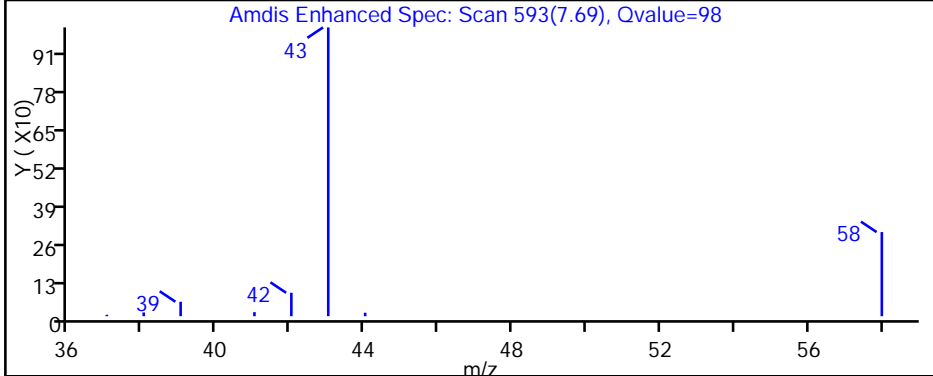
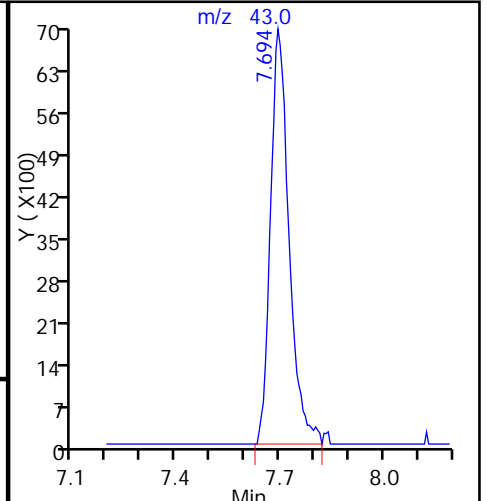
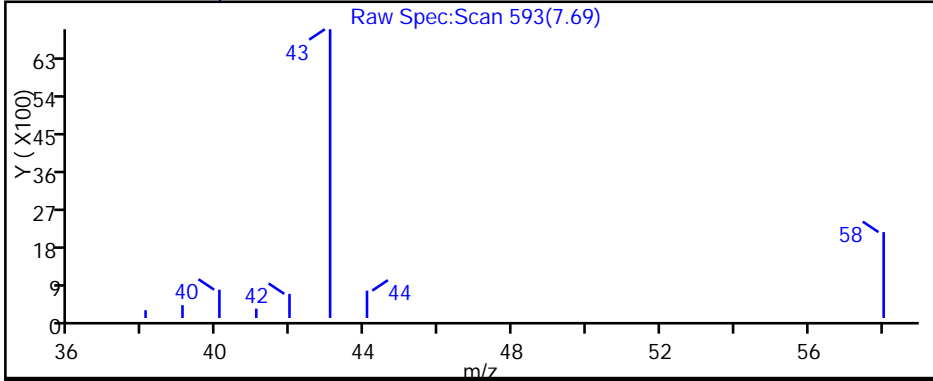
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000740 Lab Sample ID: 320-22176-8
 Matrix: Air Lab File ID: 16100312.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 22:55
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | ND | | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000740 Lab Sample ID: 320-22176-8
 Matrix: Air Lab File ID: 16100312.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 22:55
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000740 Lab Sample ID: 320-22176-8
 Matrix: Air Lab File ID: 16100312.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 22:55
 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.: 130498 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 102 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100312.D
 Lims ID: 320-22176-A-8
 Client ID: 34000740
 Sample Type: Client
 Inject. Date: 03-Oct-2016 22:55:30 ALS Bottle#: 6 Worklist Smp#: 12
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-8
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:32:55 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:32:54

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.439 | 12.438 | 0.001 | 93 | 38557 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.531 | 14.529 | 0.002 | 96 | 157280 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.436 | 20.441 | -0.005 | 89 | 136357 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.607 | 13.611 | -0.004 | 97 | 55960 | 4.08 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.694 | 17.686 | 0.008 | 97 | 93779 | 4.00 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.352 | 22.350 | 0.002 | 90 | 67884 | 3.69 | |
| 14 Propene | 41 | 4.266 | 4.258 | 0.008 | 36 | 606 | 0.0389 | |
| 31 Acetone | 43 | 7.720 | 7.706 | 0.014 | 97 | 2485 | 0.1543 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100312.D

Injection Date: 03-Oct-2016 22:55:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-8

Lab Sample ID: 320-22176-8

Worklist Smp#: 12

Client ID: 34000740

Purge Vol: 500.000 mL

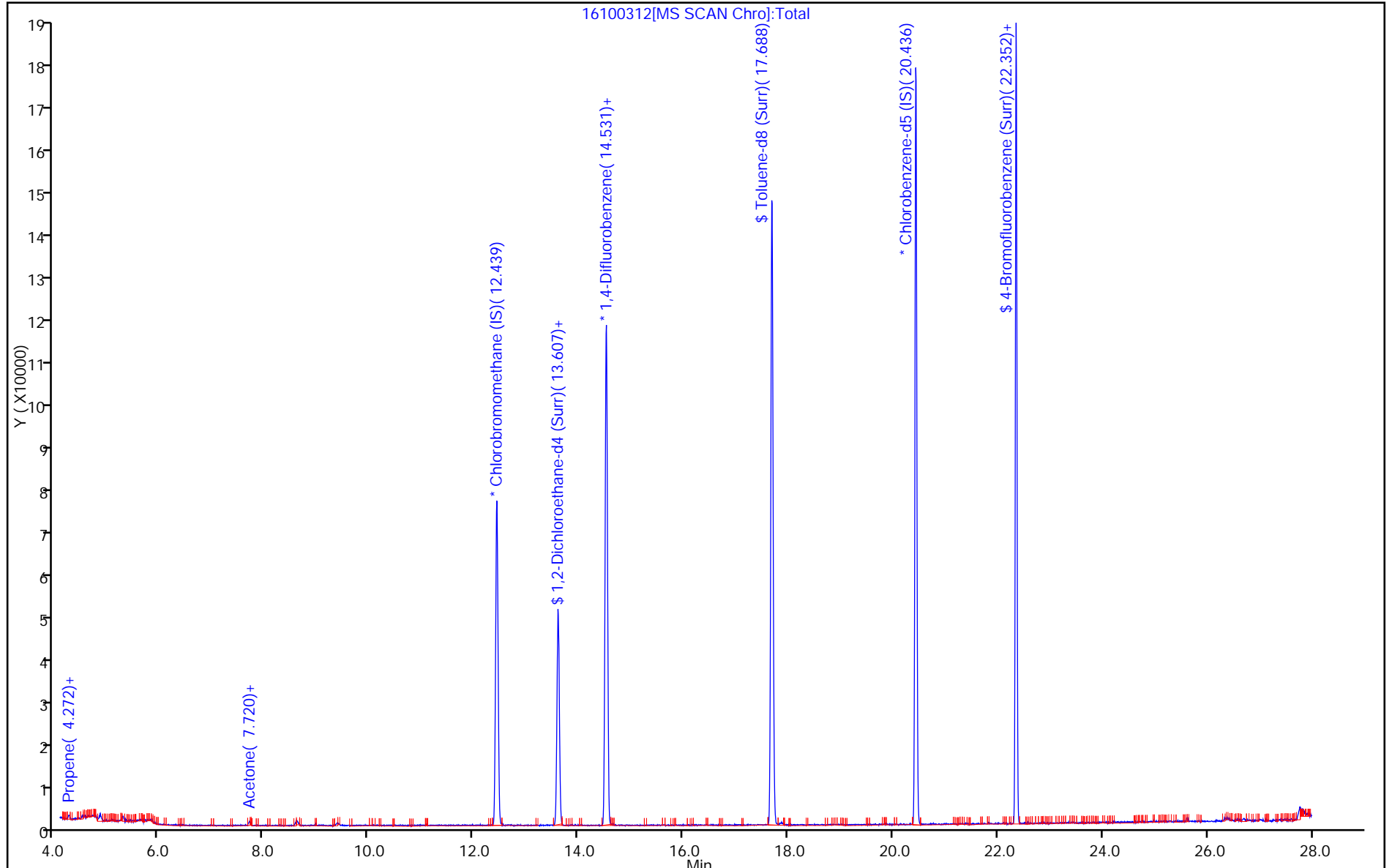
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001011 Lab Sample ID: 320-22176-9
 Matrix: Air Lab File ID: 16100313.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 23:45
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.90 | 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 | 0.55 | J | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001011 Lab Sample ID: 320-22176-9
 Matrix: Air Lab File ID: 16100313.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 23:45
 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.: 130498 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 | 0.050 |
| 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 | 0.15 | J | 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 | 0.10 | J | 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34001011 Lab Sample ID: 320-22176-9
 Matrix: Air Lab File ID: 16100313.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/03/2016 23:45
 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.: 130498 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 95 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D
 Lims ID: 320-22176-A-9
 Client ID: 34001011
 Sample Type: Client
 Inject. Date: 03-Oct-2016 23:45:30 ALS Bottle#: 7 Worklist Smp#: 13
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-9
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:35:29 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:35:29

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.443 | 12.438 | 0.005 | 93 | 37095 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.529 | 14.529 | 0.000 | 96 | 146453 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.440 | 20.441 | -0.001 | 89 | 127466 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.611 | 13.611 | 0.000 | 96 | 50290 | 3.81 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.685 | 17.686 | -0.001 | 98 | 85959 | 3.94 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.350 | 22.350 | 0.000 | 90 | 63213 | 3.68 | |
| 14 Propene | 41 | 4.270 | 4.258 | 0.012 | 31 | 1507 | 0.1006 | |
| 22 Butane | 43 | 5.012 | 5.000 | 0.012 | 37 | 683 | 0.0239 | |
| 31 Acetone | 43 | 7.712 | 7.706 | 0.006 | 99 | 13905 | 0.8971 | |
| 47 Methylene Chloride | 49 | 8.983 | 8.977 | 0.006 | 89 | 2757 | 0.1492 | |
| 48 Carbon disulfide | 76 | 9.050 | 9.044 | 0.006 | 98 | 14846 | 0.5514 | |
| 85 Toluene | 91 | 17.843 | 17.844 | -0.001 | 88 | 1185 | 0.0367 | |

Reagents:

VAMSIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Worklist Smp#: 13

Client ID: 34001011

Purge Vol: 500.000 mL

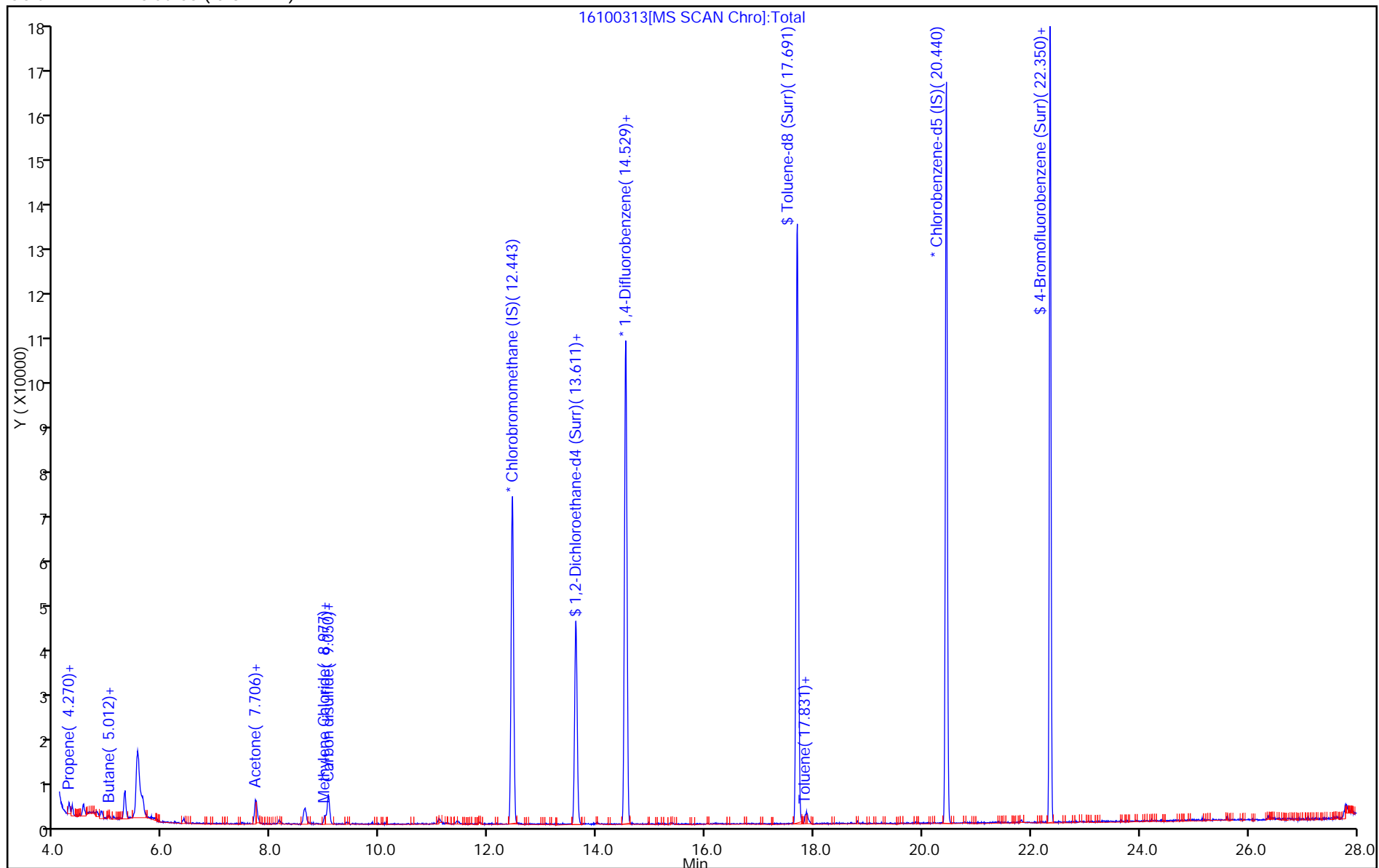
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Client ID: 34001011

Operator ID: KY

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

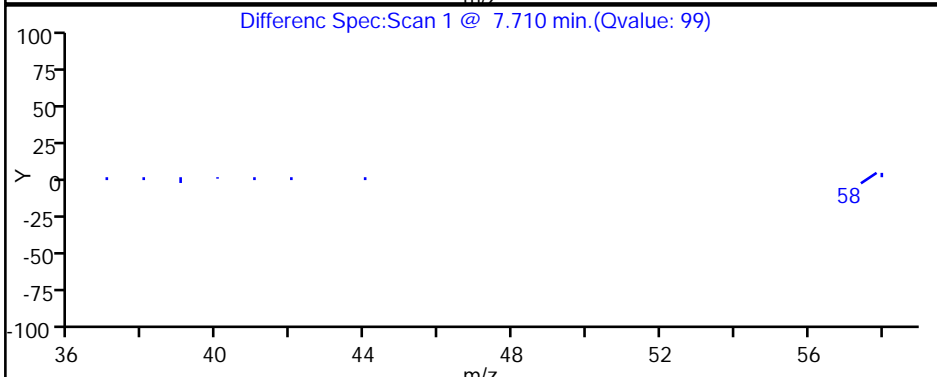
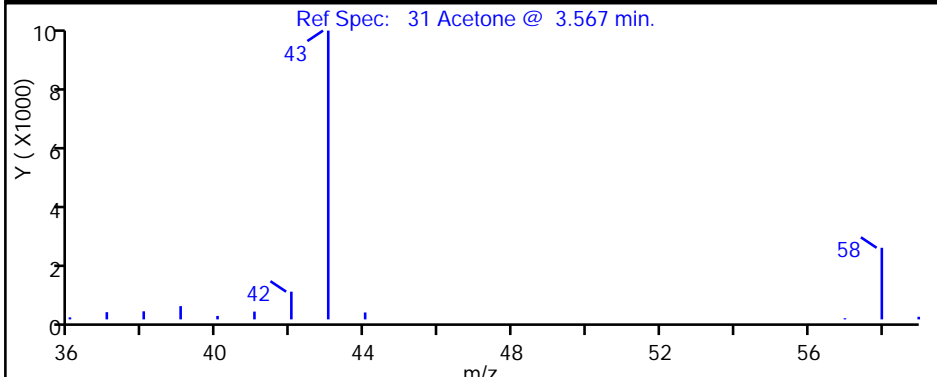
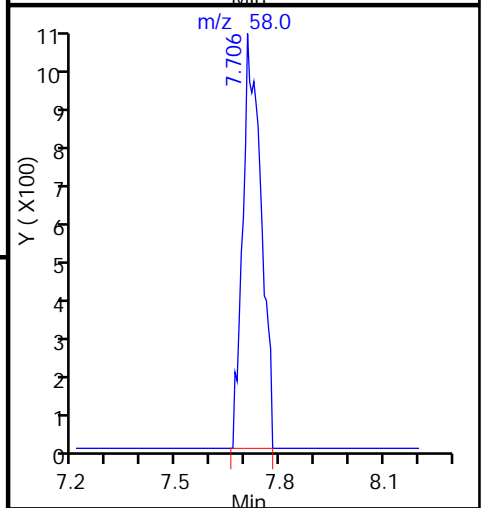
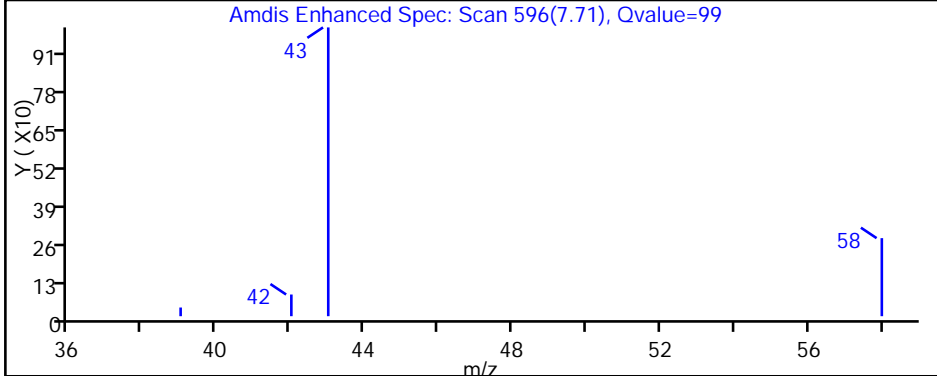
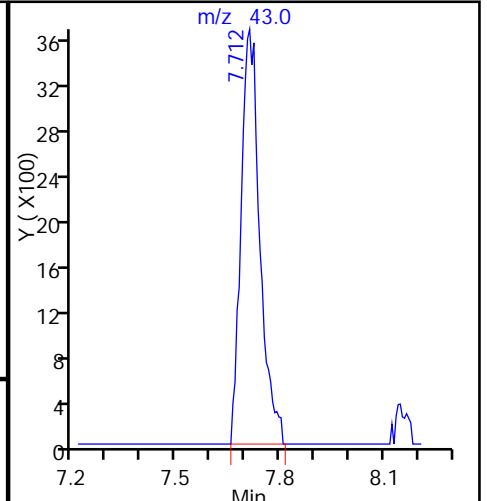
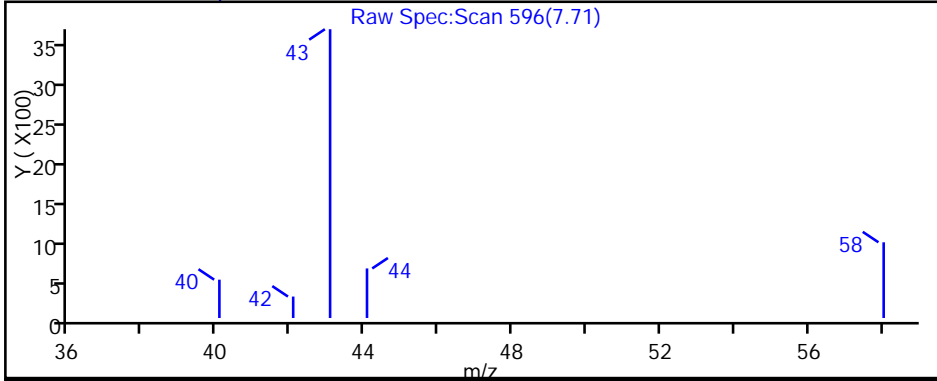
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Client ID: 34001011

Operator ID: KY

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

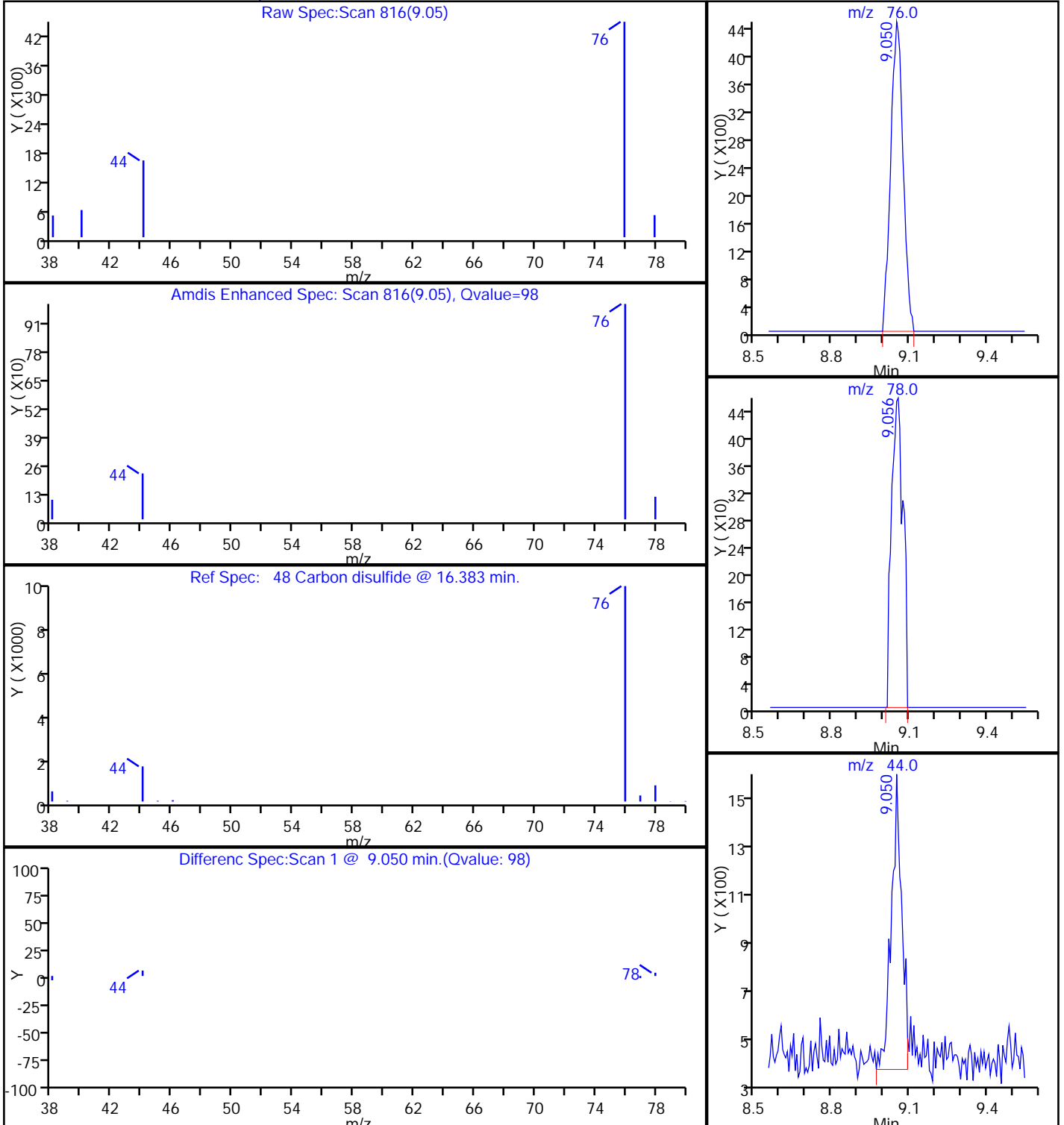
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

48 Carbon disulfide, CAS: 75-15-0



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Client ID: 34001011

Operator ID: KY

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

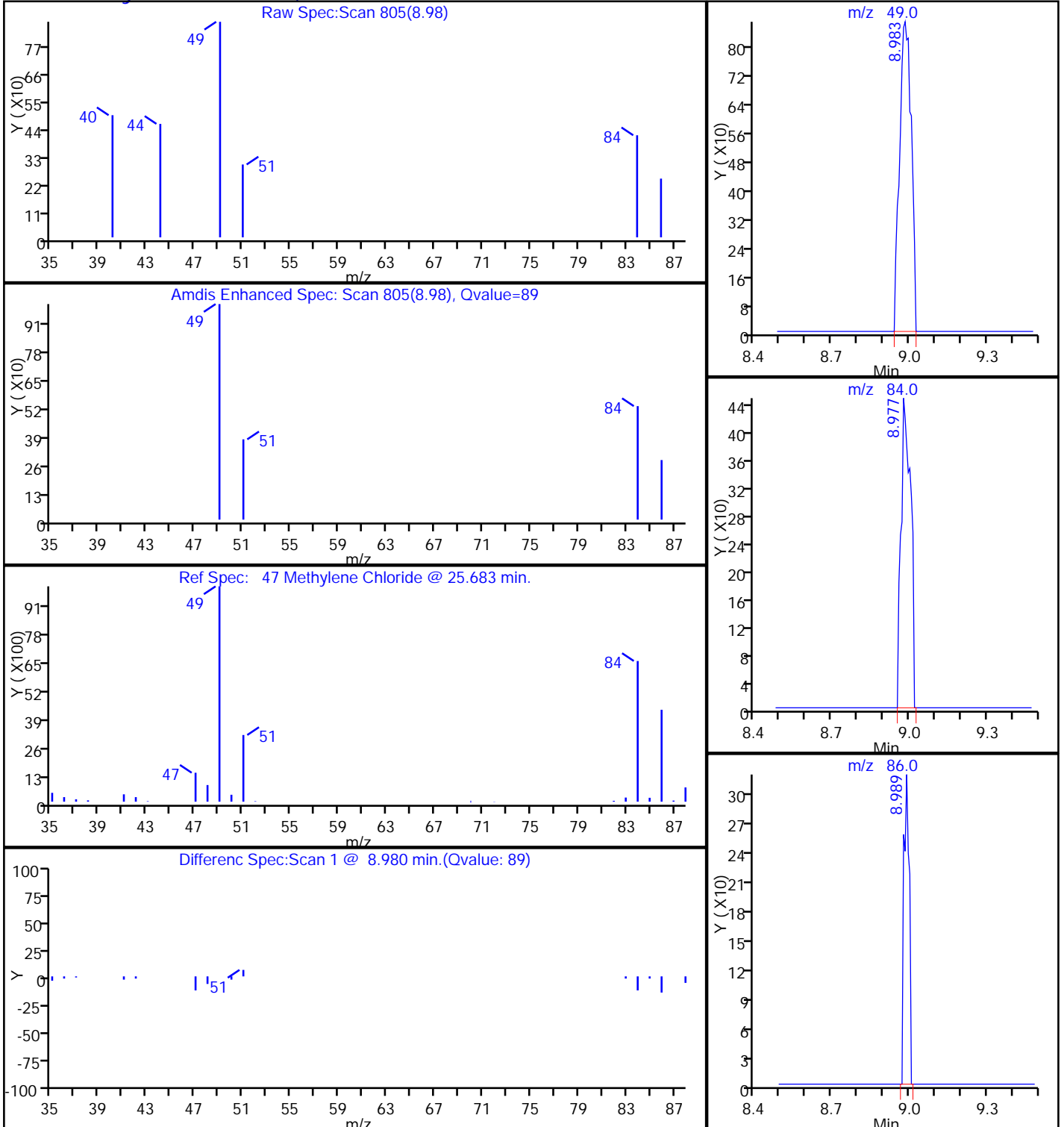
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

47 Methylene Chloride, CAS: 75-09-2



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100313.D

Injection Date: 03-Oct-2016 23:45:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-9

Lab Sample ID: 320-22176-9

Client ID: 34001011

Operator ID: KY

ALS Bottle#: 7 Worklist Smp#: 13

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

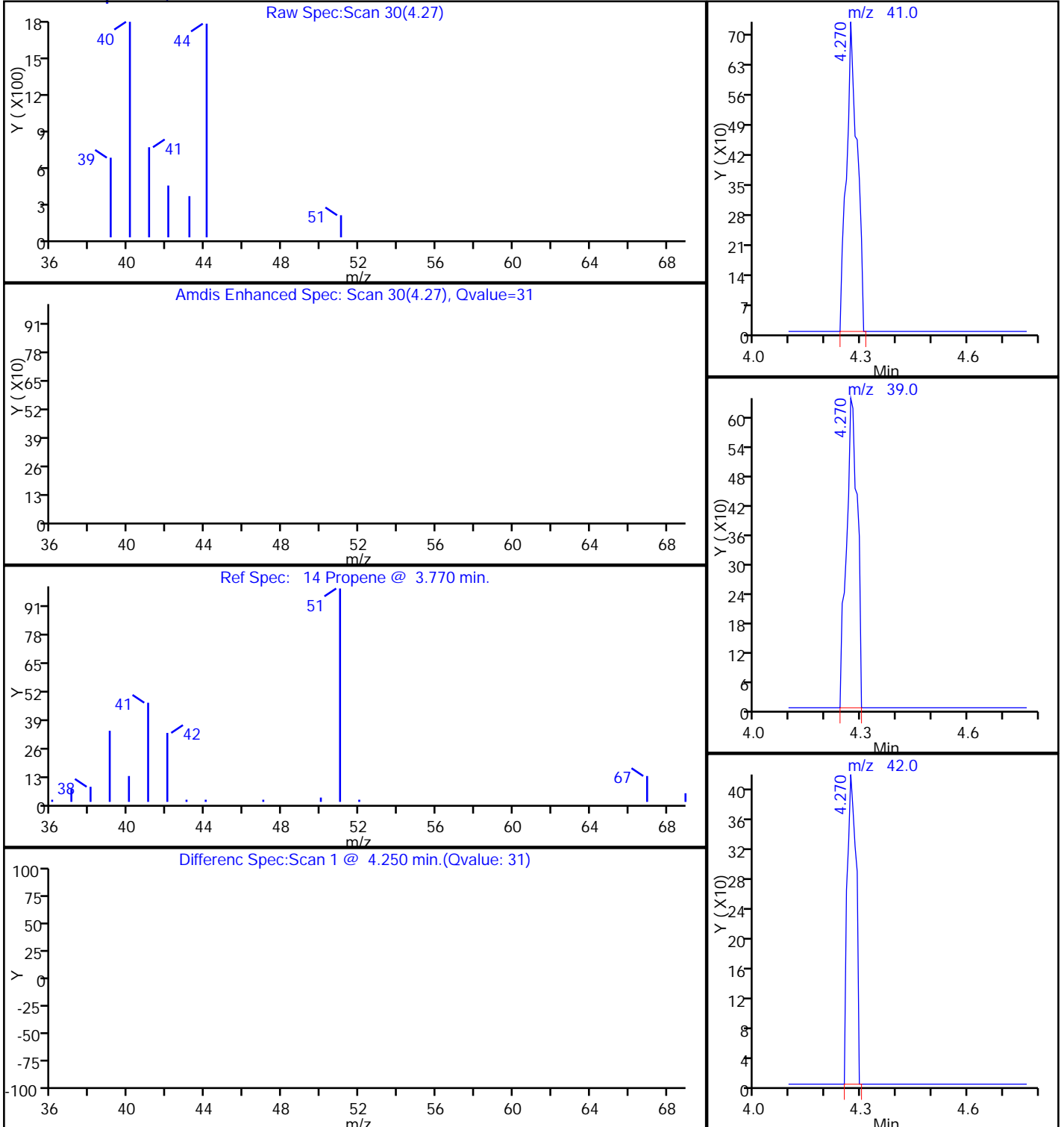
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

14 Propene, CAS: 115-07-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000965 Lab Sample ID: 320-22176-11
 Matrix: Air Lab File ID: 16100316.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:08
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 2.3 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000965 Lab Sample ID: 320-22176-11
 Matrix: Air Lab File ID: 16100316.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:08
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000965 Lab Sample ID: 320-22176-11
 Matrix: Air Lab File ID: 16100316.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:08
 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.: 130498 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) | 93 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100316.D
 Lims ID: 320-22176-A-11
 Client ID: 34000965
 Sample Type: Client
 Inject. Date: 04-Oct-2016 02:08:30 ALS Bottle#: 9 Worklist Smp#: 16
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-11
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:41:10 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:41:22

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.438 | 12.438 | 0.000 | 93 | 38932 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.530 | 14.529 | 0.001 | 96 | 156959 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.441 | 20.441 | 0.000 | 89 | 135074 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.612 | 13.611 | 0.001 | 97 | 55537 | 4.01 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 98 | 94174 | 4.03 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.357 | 22.350 | 0.007 | 91 | 67420 | 3.70 | |
| 14 Propene | 41 | 4.265 | 4.258 | 0.007 | 30 | 1228 | 0.0781 | |
| 31 Acetone | 43 | 7.701 | 7.706 | -0.005 | 99 | 37744 | 2.32 | |
| 85 Toluene | 91 | 17.850 | 17.844 | 0.006 | 92 | 815 | 0.0236 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100316.D

Injection Date: 04-Oct-2016 02:08:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-11

Lab Sample ID: 320-22176-11

Worklist Smp#: 16

Client ID: 34000965

Purge Vol: 500.000 mL

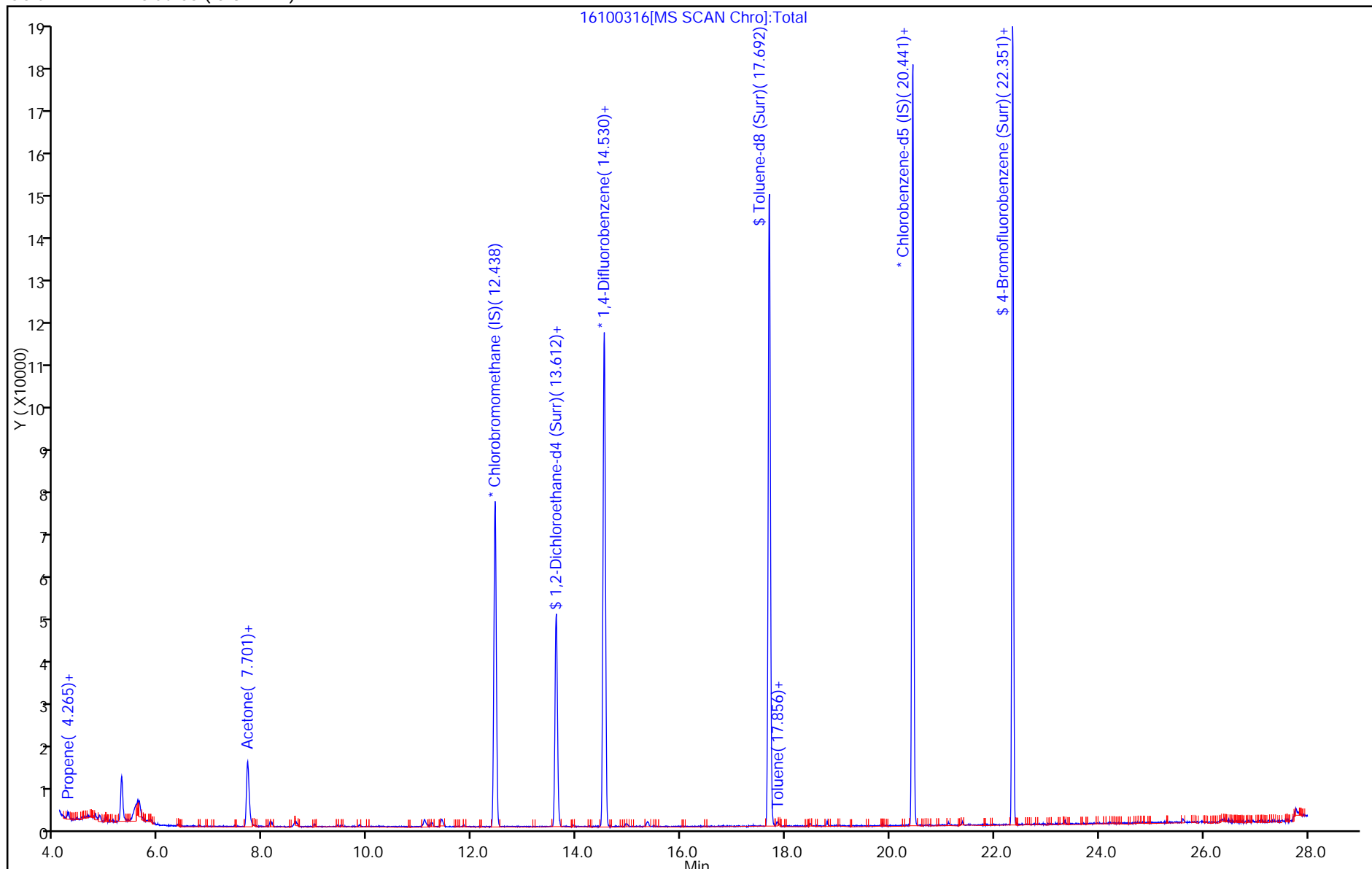
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100316.D

Injection Date: 04-Oct-2016 02:08:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-11

Lab Sample ID: 320-22176-11

Client ID: 34000965

Operator ID: KY

ALS Bottle#: 9 Worklist Smp#: 16

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

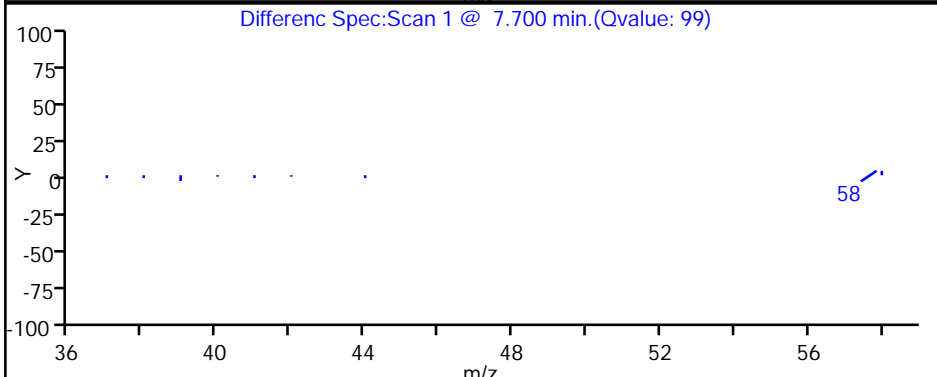
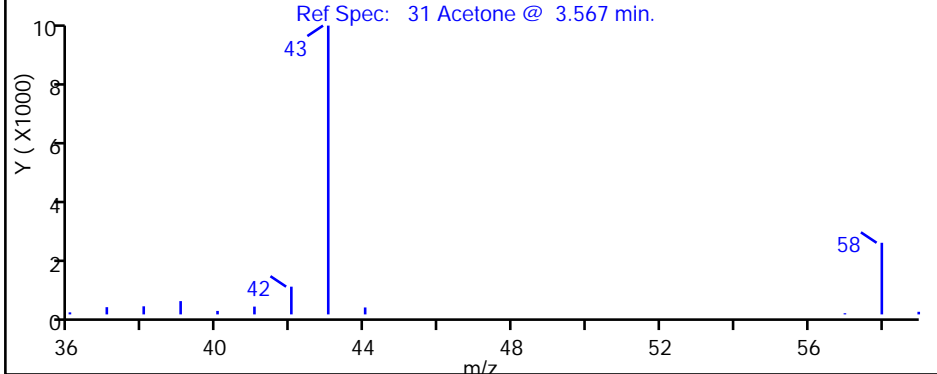
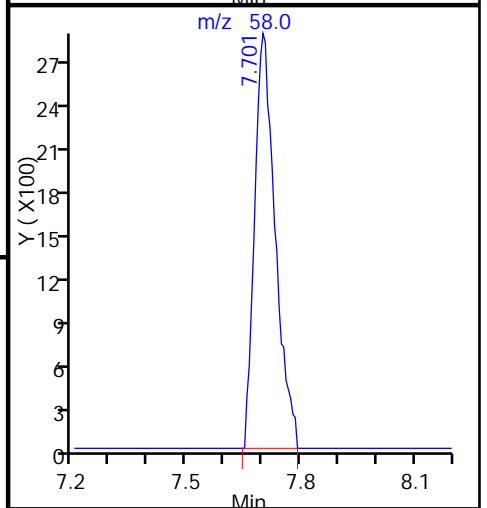
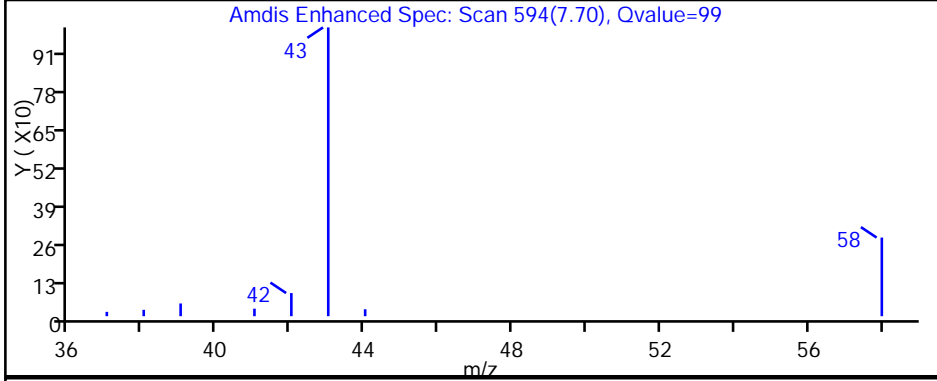
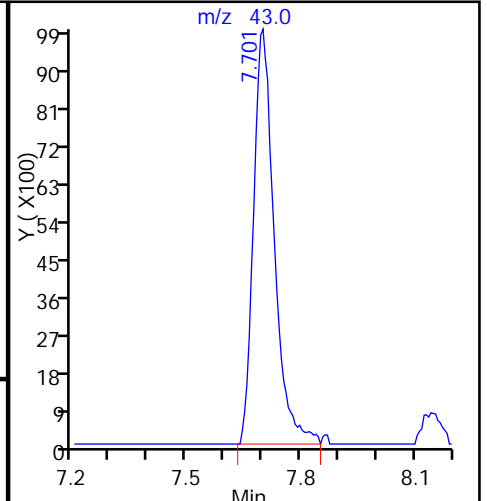
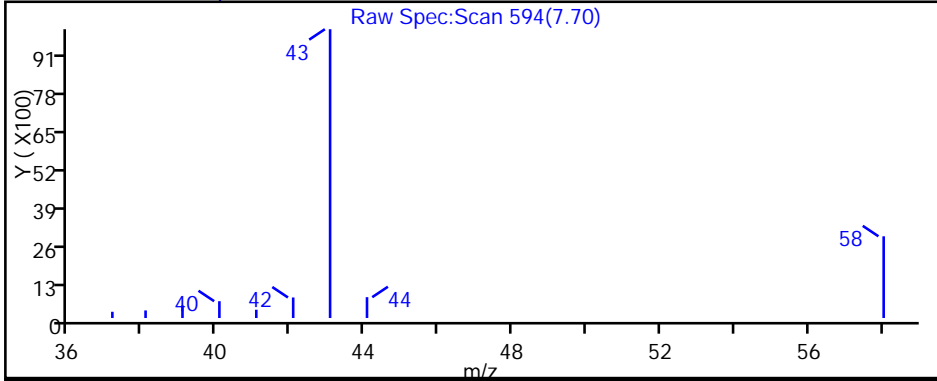
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000677 Lab Sample ID: 320-22176-12
 Matrix: Air Lab File ID: 16100317.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:57
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 2.1 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000677 Lab Sample ID: 320-22176-12
 Matrix: Air Lab File ID: 16100317.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:57
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000677 Lab Sample ID: 320-22176-12
 Matrix: Air Lab File ID: 16100317.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 02:57
 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.: 130498 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 | 0.30 | J | 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100317.D
 Lims ID: 320-22176-A-12
 Client ID: 34000677
 Sample Type: Client
 Inject. Date: 04-Oct-2016 02:57:30 ALS Bottle#: 10 Worklist Smp#: 17
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-12
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:42:31 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:42:40

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.440 | 12.438 | 0.002 | 94 | 37381 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.532 | 14.529 | 0.003 | 95 | 152118 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.437 | 20.441 | -0.004 | 90 | 132048 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.608 | 13.611 | -0.003 | 96 | 53981 | 4.06 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.688 | 17.686 | 0.002 | 97 | 88952 | 3.92 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.353 | 22.350 | 0.003 | 92 | 65459 | 3.68 | |
| 14 Propene | 41 | 4.261 | 4.258 | 0.003 | 40 | 1147 | 0.0760 | |
| 31 Acetone | 43 | 7.697 | 7.706 | -0.009 | 100 | 32673 | 2.09 | |
| 47 Methylene Chloride | 49 | 8.980 | 8.977 | 0.003 | 83 | 1295 | 0.0695 | |
| 98 m-Xylene & p-Xylene | 91 | 20.772 | 20.769 | 0.003 | 93 | 4465 | 0.2972 | |

Reagents:

VAMSIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100317.D

Injection Date: 04-Oct-2016 02:57:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-12

Lab Sample ID: 320-22176-12

Worklist Smp#: 17

Client ID: 34000677

Purge Vol: 500.000 mL

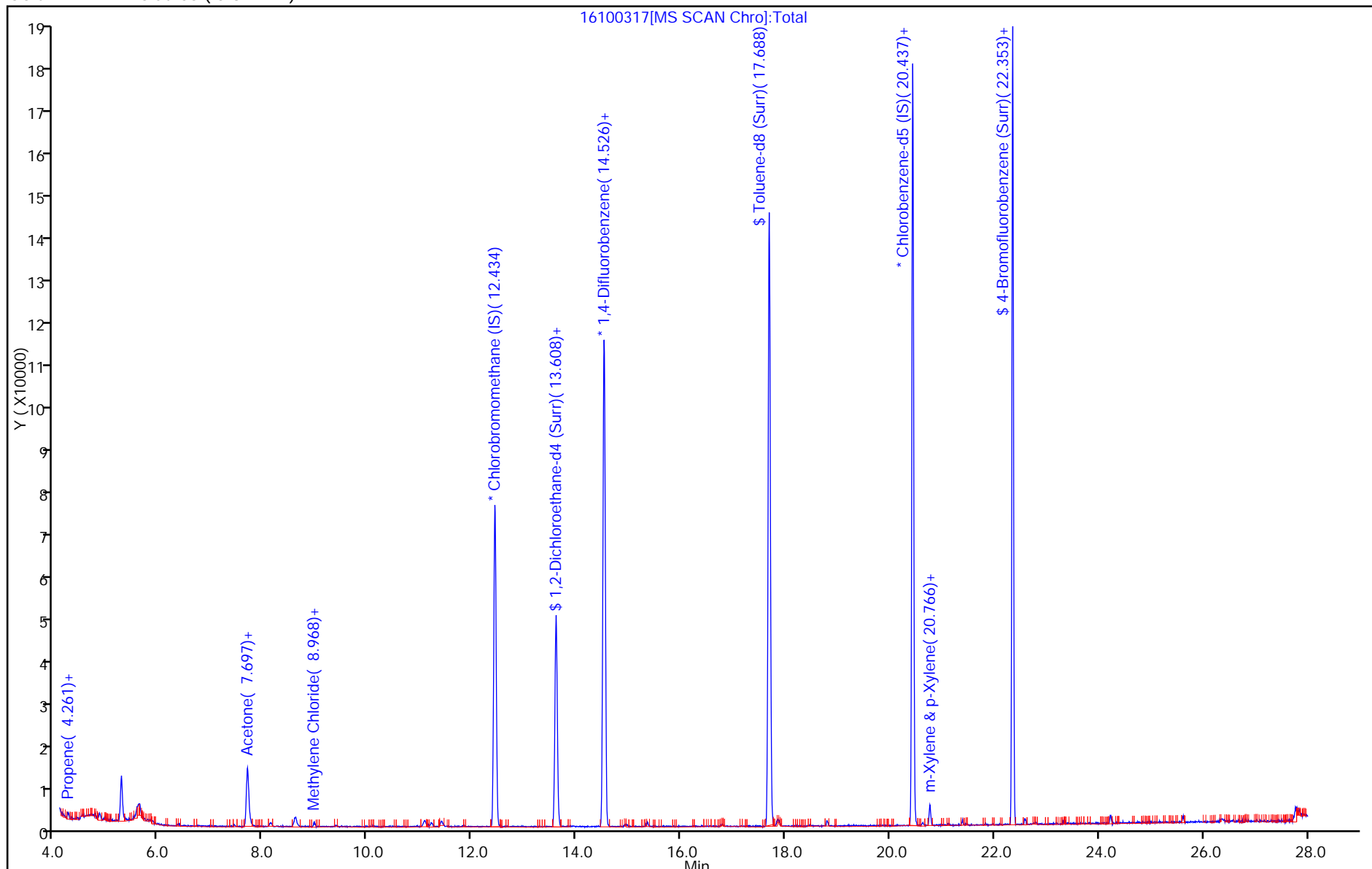
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100317.D

Injection Date: 04-Oct-2016 02:57:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-12

Lab Sample ID: 320-22176-12

Client ID: 34000677

Operator ID: KY

ALS Bottle#: 10 Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

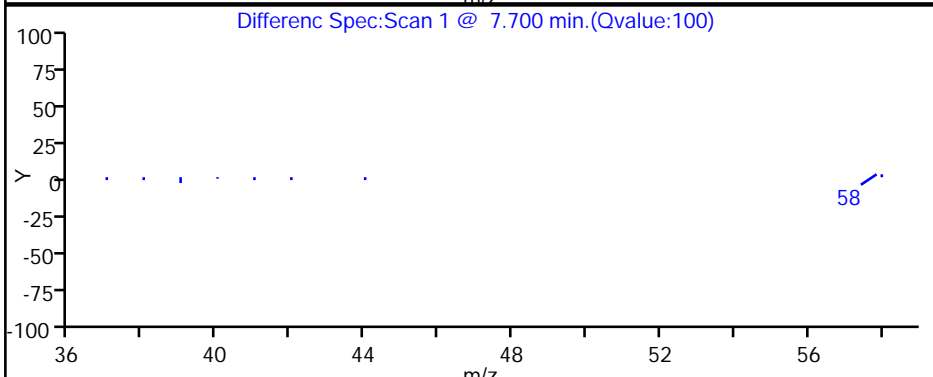
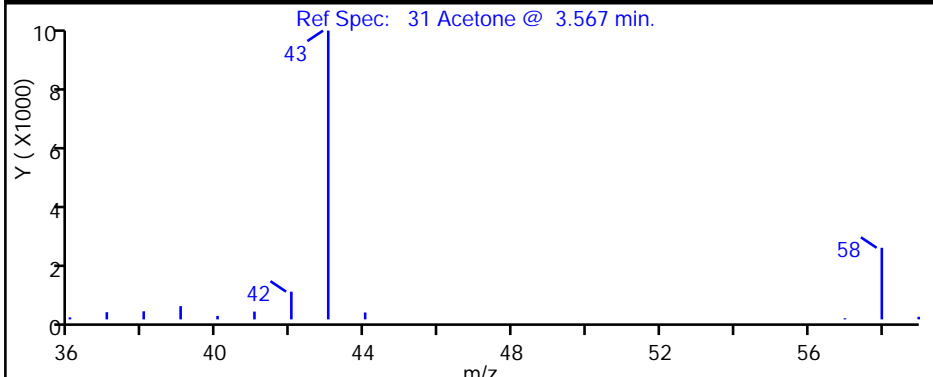
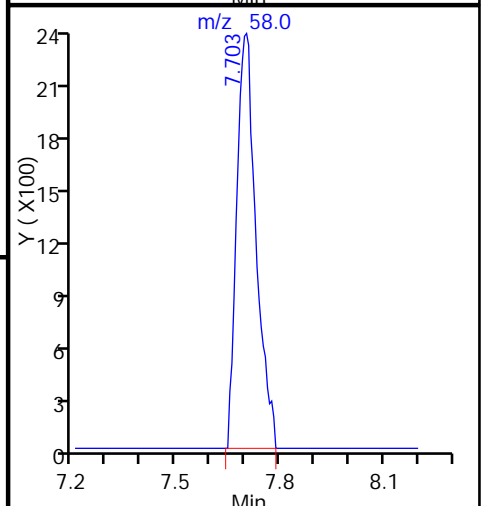
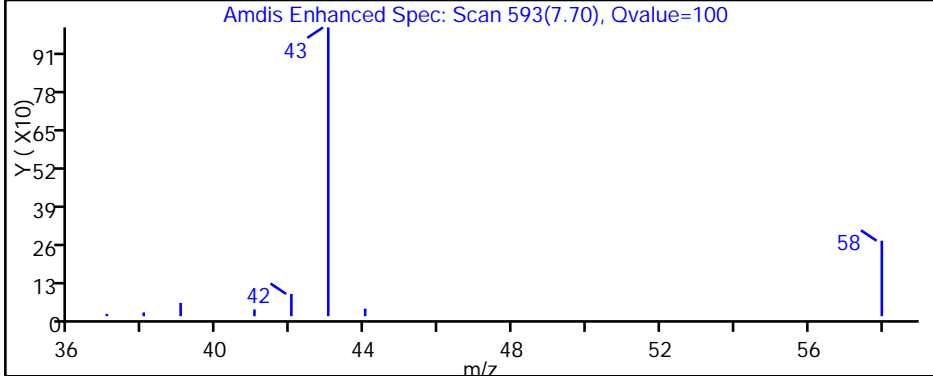
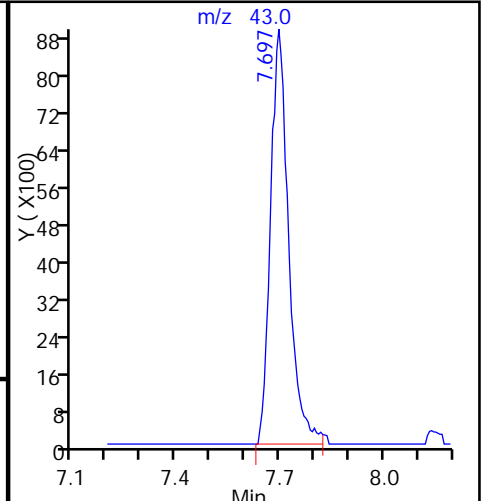
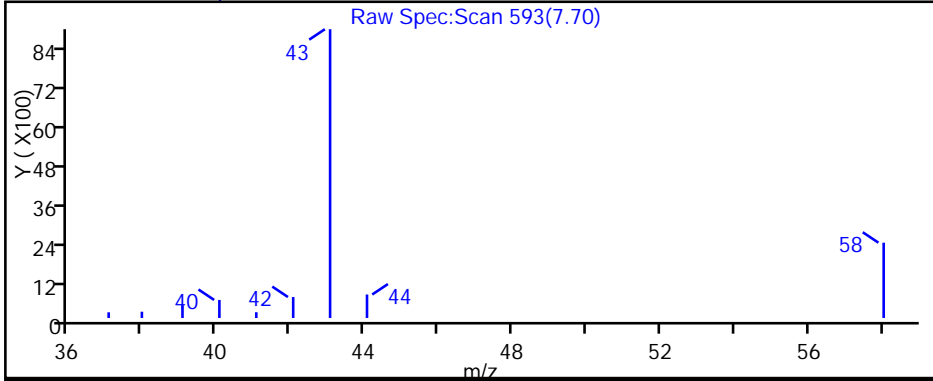
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100317.D

Injection Date: 04-Oct-2016 02:57:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-12

Lab Sample ID: 320-22176-12

Client ID: 34000677

Operator ID: KY

ALS Bottle#: 10

Worklist Smp#: 17

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

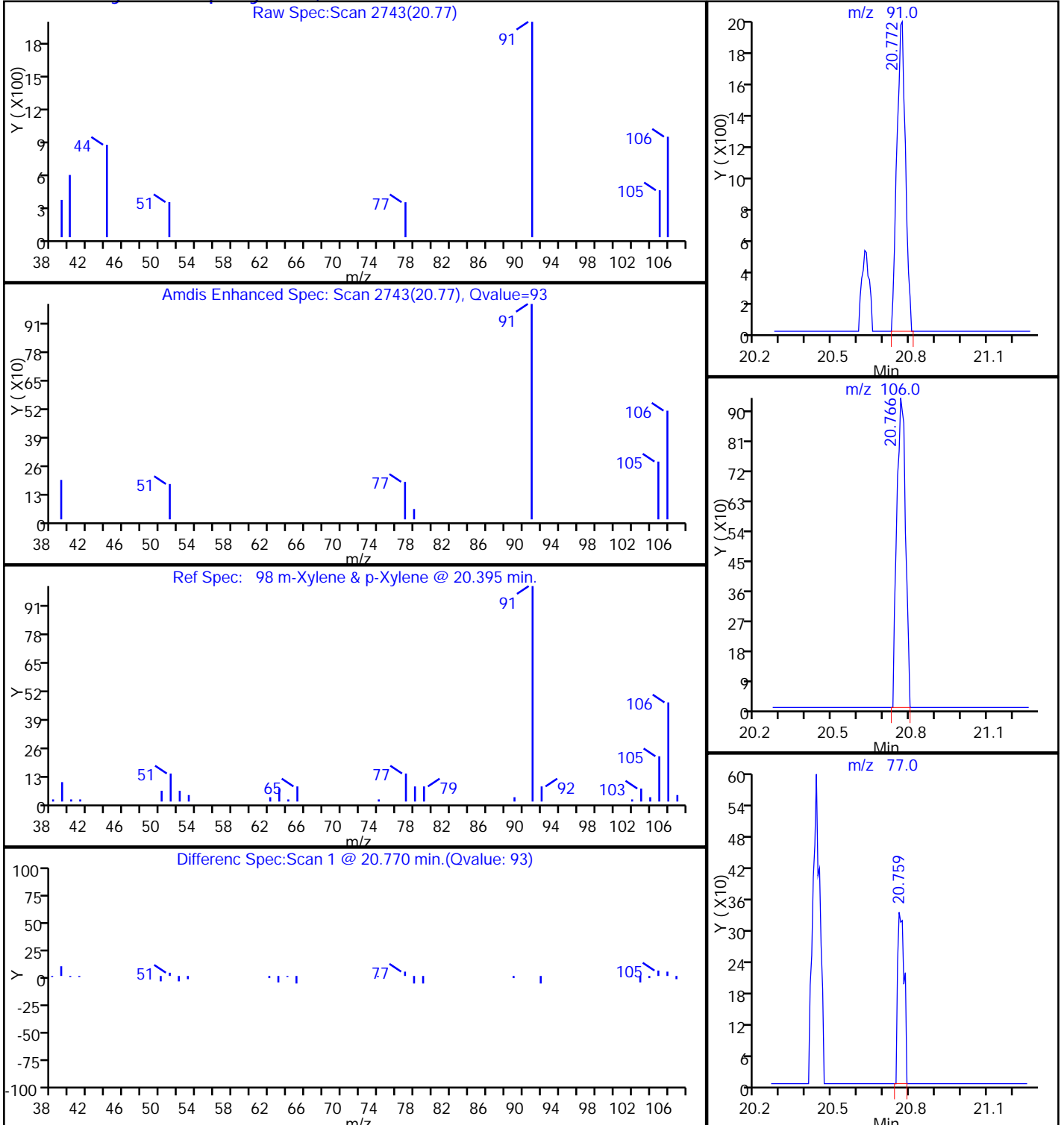
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

98 m-Xylene & p-Xylene, CAS: 179601-23-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000982 Lab Sample ID: 320-22176-13
 Matrix: Air Lab File ID: 16100318.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 03:46
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 1.7 | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000982 Lab Sample ID: 320-22176-13
 Matrix: Air Lab File ID: 16100318.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 03:46
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000982 Lab Sample ID: 320-22176-13
 Matrix: Air Lab File ID: 16100318.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 03:46
 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.: 130498 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) | 92 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 99 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100318.D
 Lims ID: 320-22176-A-13
 Client ID: 34000982
 Sample Type: Client
 Inject. Date: 04-Oct-2016 03:46:30 ALS Bottle#: 11 Worklist Smp#: 18
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-13
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:43:43 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens Date: 04-Oct-2016 09:43:55

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|-----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.446 | 12.438 | 0.008 | 93 | 37346 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.538 | 14.529 | 0.009 | 96 | 148350 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.443 | 20.441 | 0.002 | 89 | 130195 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.619 | 13.611 | 0.008 | 97 | 52827 | 3.97 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.694 | 17.686 | 0.008 | 98 | 88400 | 4.00 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.352 | 22.350 | 0.002 | 90 | 64619 | 3.68 | |
| 14 Propene | 41 | 4.279 | 4.258 | 0.020 | 31 | 885 | 0.0587 | |
| 31 Acetone | 43 | 7.727 | 7.706 | 0.021 | 100 | 26505 | 1.70 | |
| 47 Methylene Chloride | 49 | 8.985 | 8.977 | 0.008 | 80 | 1325 | 0.0712 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100318.D

Injection Date: 04-Oct-2016 03:46:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-13

Lab Sample ID: 320-22176-13

Worklist Smp#: 18

Client ID: 34000982

Purge Vol: 500.000 mL

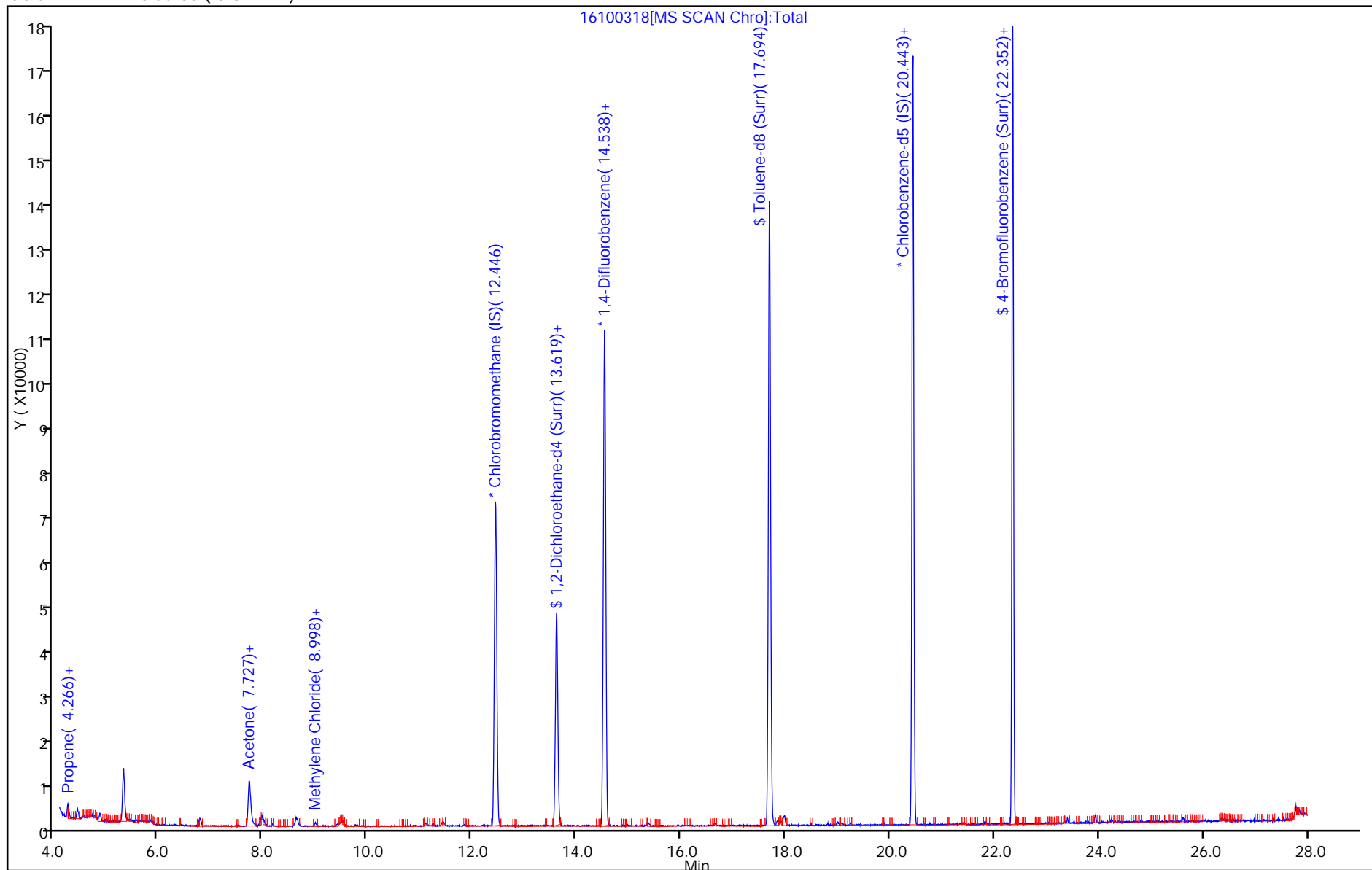
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100318.D

Injection Date: 04-Oct-2016 03:46:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-13

Lab Sample ID: 320-22176-13

Client ID: 34000982

Operator ID: KY

ALS Bottle#: 11 Worklist Smp#: 18

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

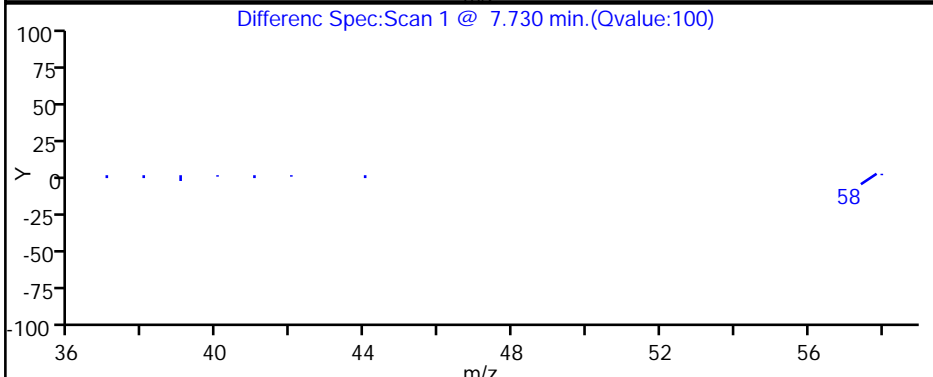
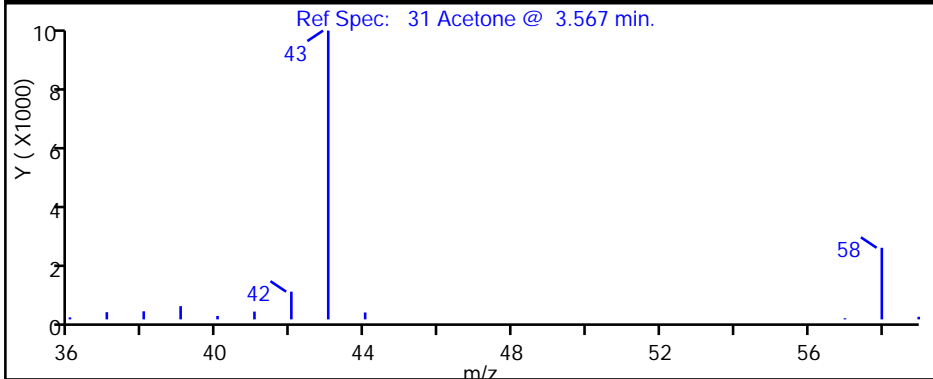
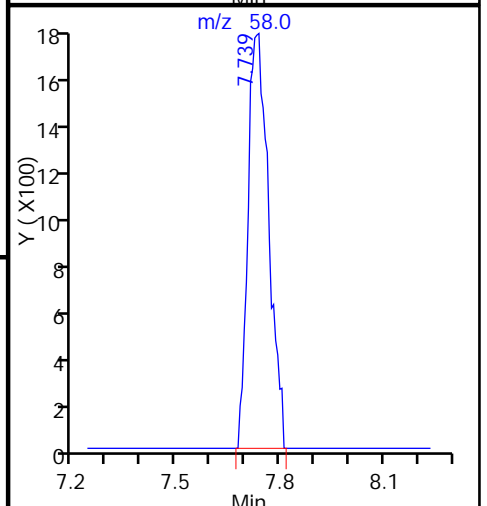
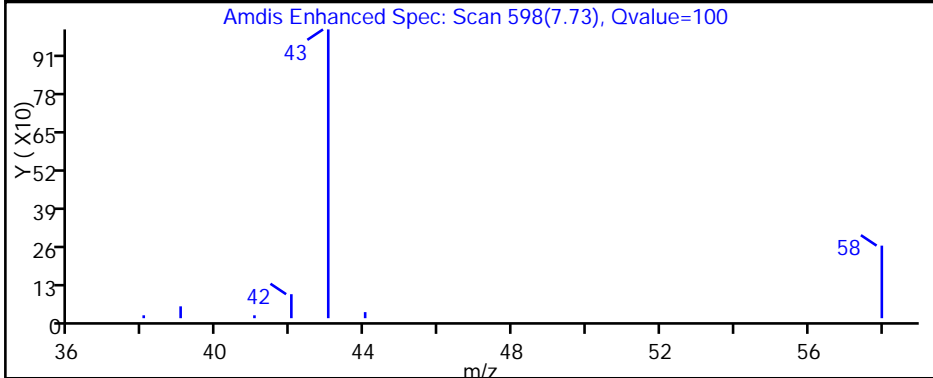
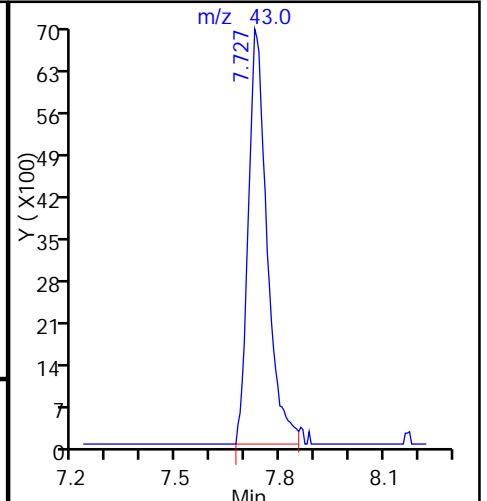
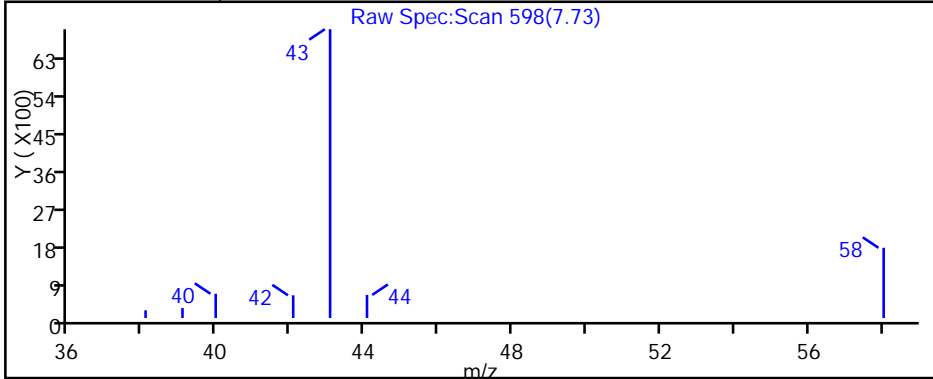
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000758 Lab Sample ID: 320-22176-15
 Matrix: Air Lab File ID: 16100321.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:10
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 1.9 | 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) | 0.29 | J | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000758 Lab Sample ID: 320-22176-15
 Matrix: Air Lab File ID: 16100321.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:10
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000758 Lab Sample ID: 320-22176-15
 Matrix: Air Lab File ID: 16100321.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:10
 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.: 130498 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) | 94 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 101 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100321.D
 Lims ID: 320-22176-A-15
 Client ID: 34000758
 Sample Type: Client
 Inject. Date: 04-Oct-2016 06:10:30 ALS Bottle#: 13 Worklist Smp#: 21
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-15
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:48:13 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:48:42

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.450 | 12.438 | 0.012 | 93 | 36178 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.536 | 14.529 | 0.007 | 97 | 145452 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.441 | 20.441 | 0.000 | 89 | 130449 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.618 | 13.611 | 0.007 | 96 | 51935 | 4.03 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.692 | 17.686 | 0.006 | 97 | 87748 | 4.05 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.356 | 22.350 | 0.006 | 93 | 65814 | 3.74 | |
| 14 Propene | 41 | 4.277 | 4.258 | 0.019 | 23 | 1321 | 0.0904 | |
| 31 Acetone | 43 | 7.731 | 7.706 | 0.025 | 99 | 28932 | 1.91 | |
| 47 Methylene Chloride | 49 | 8.996 | 8.977 | 0.019 | 78 | 1081 | 0.0600 | |
| 54 2-Butanone (MEK) | 72 | 11.434 | 11.416 | 0.018 | 94 | 362 | 0.2872 | |
| 85 Toluene | 91 | 17.844 | 17.844 | 0.000 | 95 | 813 | 0.0254 | |

Reagents:

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100321.D

Injection Date: 04-Oct-2016 06:10:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-15

Lab Sample ID: 320-22176-15

Worklist Smp#: 21

Client ID: 34000758

Purge Vol: 500.000 mL

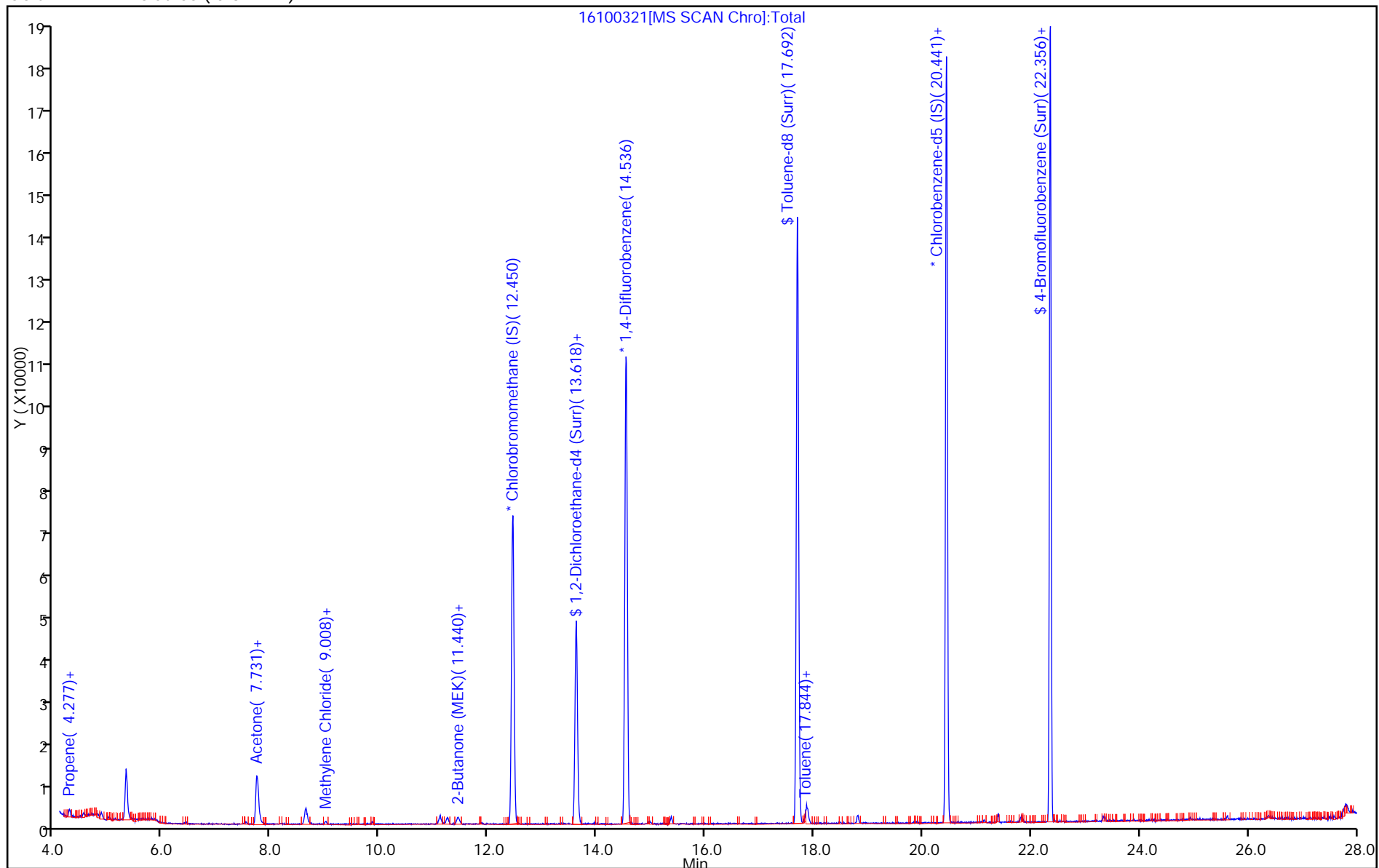
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100321.D

Injection Date: 04-Oct-2016 06:10:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-15

Lab Sample ID: 320-22176-15

Client ID: 34000758

Operator ID: KY

ALS Bottle#: 13 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

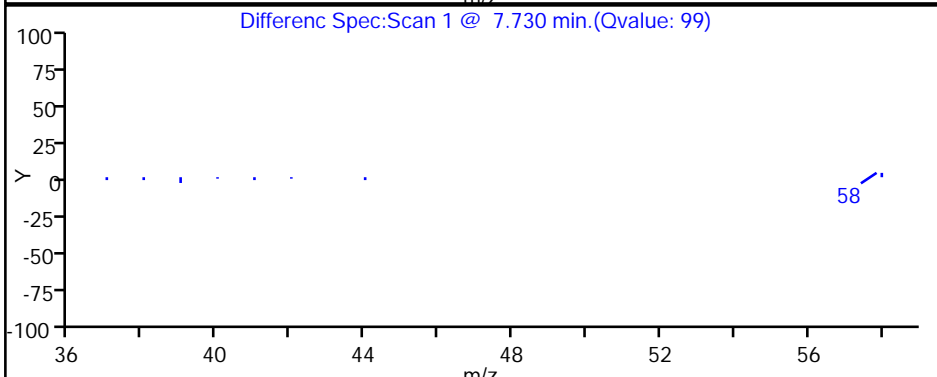
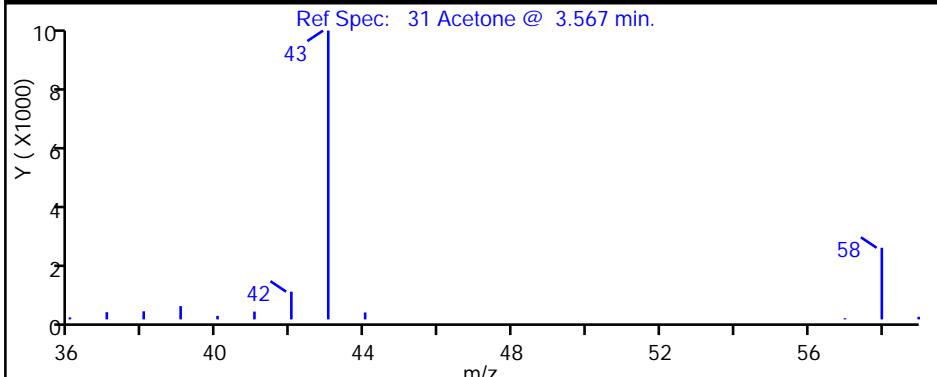
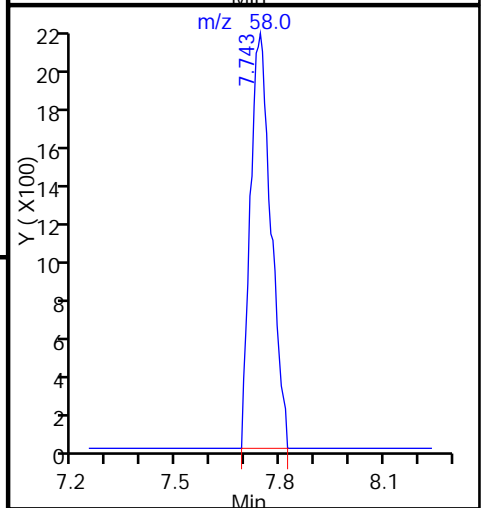
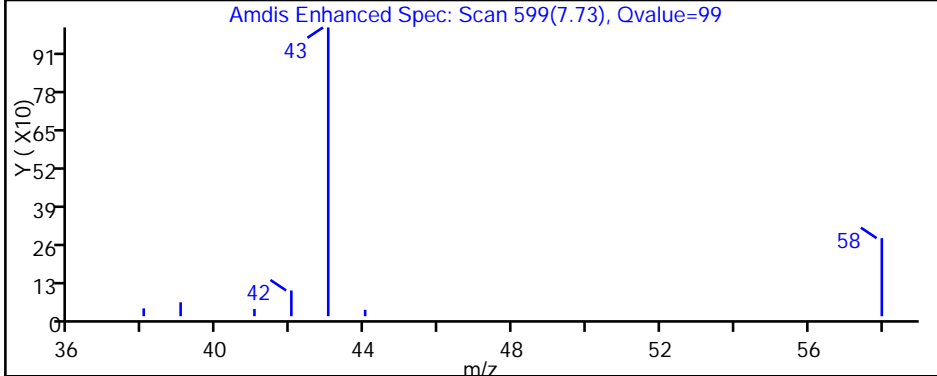
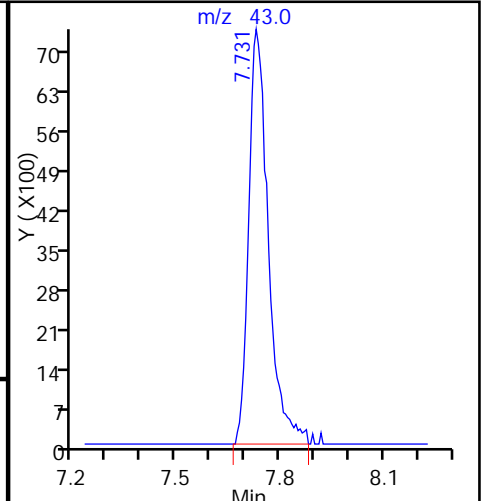
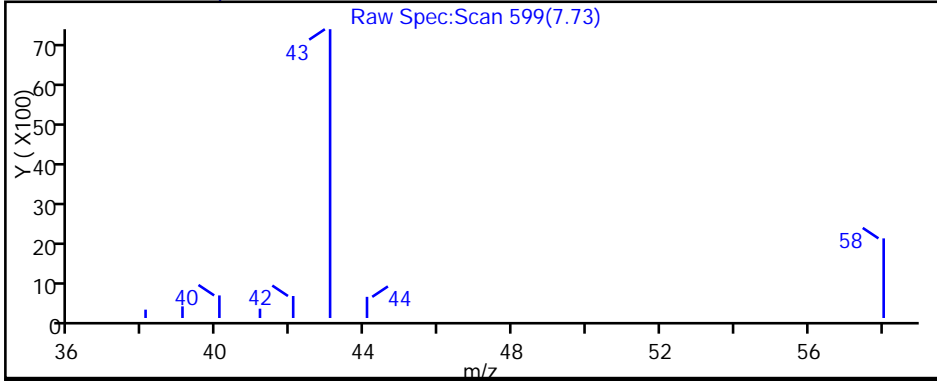
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100321.D

Injection Date: 04-Oct-2016 06:10:30

Instrument ID: ATMS11

Lims ID: 320-22176-A-15

Lab Sample ID: 320-22176-15

Client ID: 34000758

Operator ID: KY

ALS Bottle#: 13 Worklist Smp#: 21

Purge Vol: 500.000 mL

Dil. Factor: 1.0000

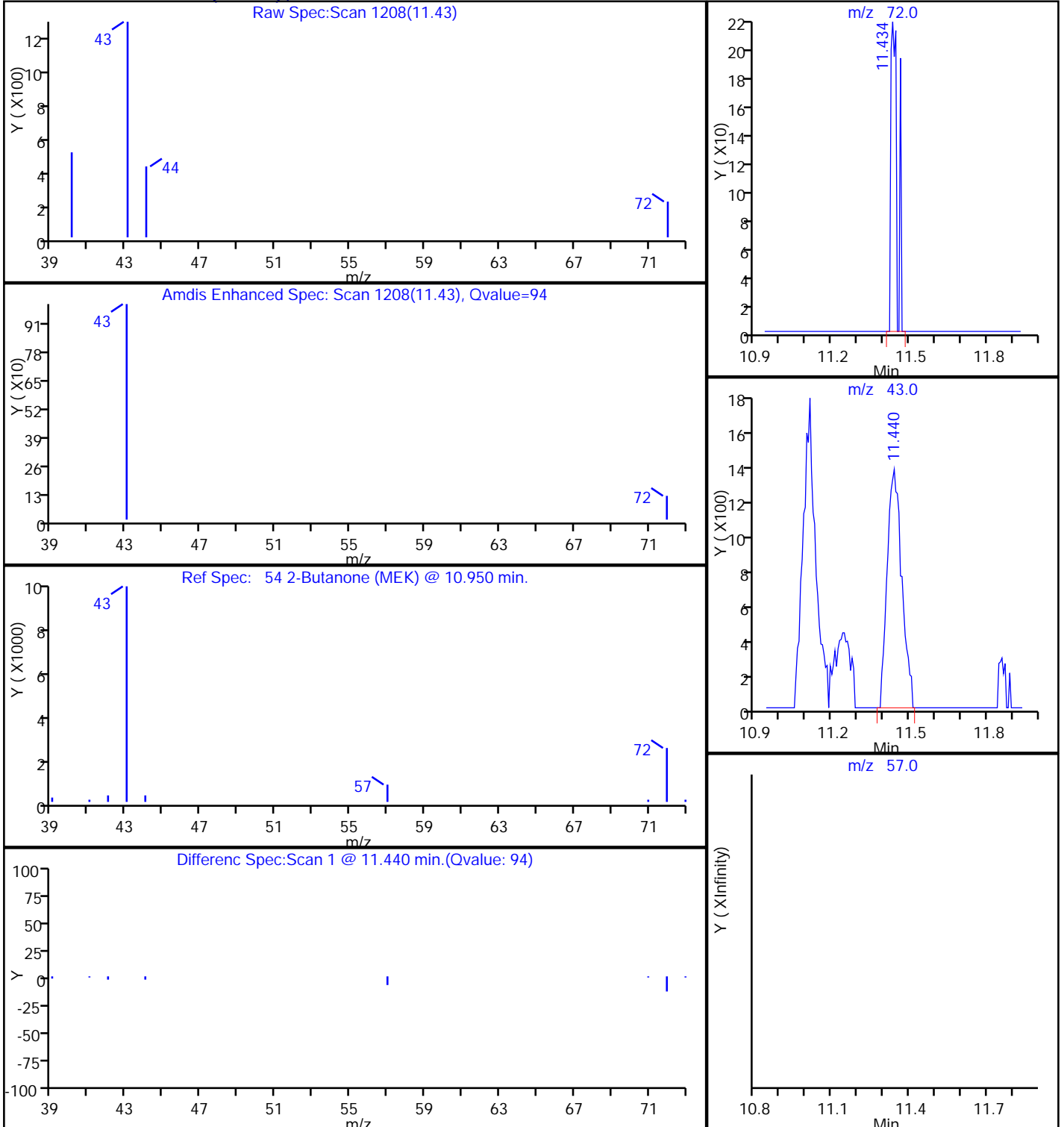
Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

54 2-Butanone (MEK), CAS: 78-93-3



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

Lab Name: TestAmerica Sacramento Job No.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000643 Lab Sample ID: 320-22176-16
 Matrix: Air Lab File ID: 16100322.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:58
 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.: 130498 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | ND | | 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 | 0.11 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000643 Lab Sample ID: 320-22176-16
 Matrix: Air Lab File ID: 16100322.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:58
 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.: 130498 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22176-1
 SDG No.: _____
 Client Sample ID: 34000643 Lab Sample ID: 320-22176-16
 Matrix: Air Lab File ID: 16100322.D
 Analysis Method: TO-15 Date Collected: 09/28/2016 00:00
 Sample wt/vol: 250 (mL) Date Analyzed: 10/04/2016 06:58
 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.: 130498 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) | 93 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 97 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100322.D
 Lims ID: 320-22176-A-16
 Client ID: 34000643
 Sample Type: Client
 Inject. Date: 04-Oct-2016 06:58:30 ALS Bottle#: 14 Worklist Smp#: 22
 Purge Vol: 500.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22176-A-16
 Misc. Info.: 500mL
 Operator ID: KY Instrument ID: ATMS11
 Method: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\TO15_ATMS11.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 09:47:44 Calib Date: 03-Oct-2016 13:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100303.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: vanommens

Date: 04-Oct-2016 09:47:44

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.438 | 12.438 | 0.000 | 93 | 36785 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.530 | 14.529 | 0.001 | 98 | 144604 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.435 | 20.441 | -0.006 | 89 | 128685 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.612 | 13.611 | 0.001 | 96 | 51041 | 3.90 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.692 | 17.686 | 0.006 | 97 | 86356 | 4.01 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.351 | 22.350 | 0.001 | 90 | 64619 | 3.72 | |
| 14 Propene | 41 | 4.271 | 4.258 | 0.013 | 28 | 752 | 0.0506 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS11\20161003-35228.b\16100322.D

Injection Date: 04-Oct-2016 06:58:30

Instrument ID: ATMS11

Operator ID: KY

Lims ID: 320-22176-A-16

Lab Sample ID: 320-22176-16

Worklist Smp#: 22

Client ID: 34000643

Purge Vol: 500.000 mL

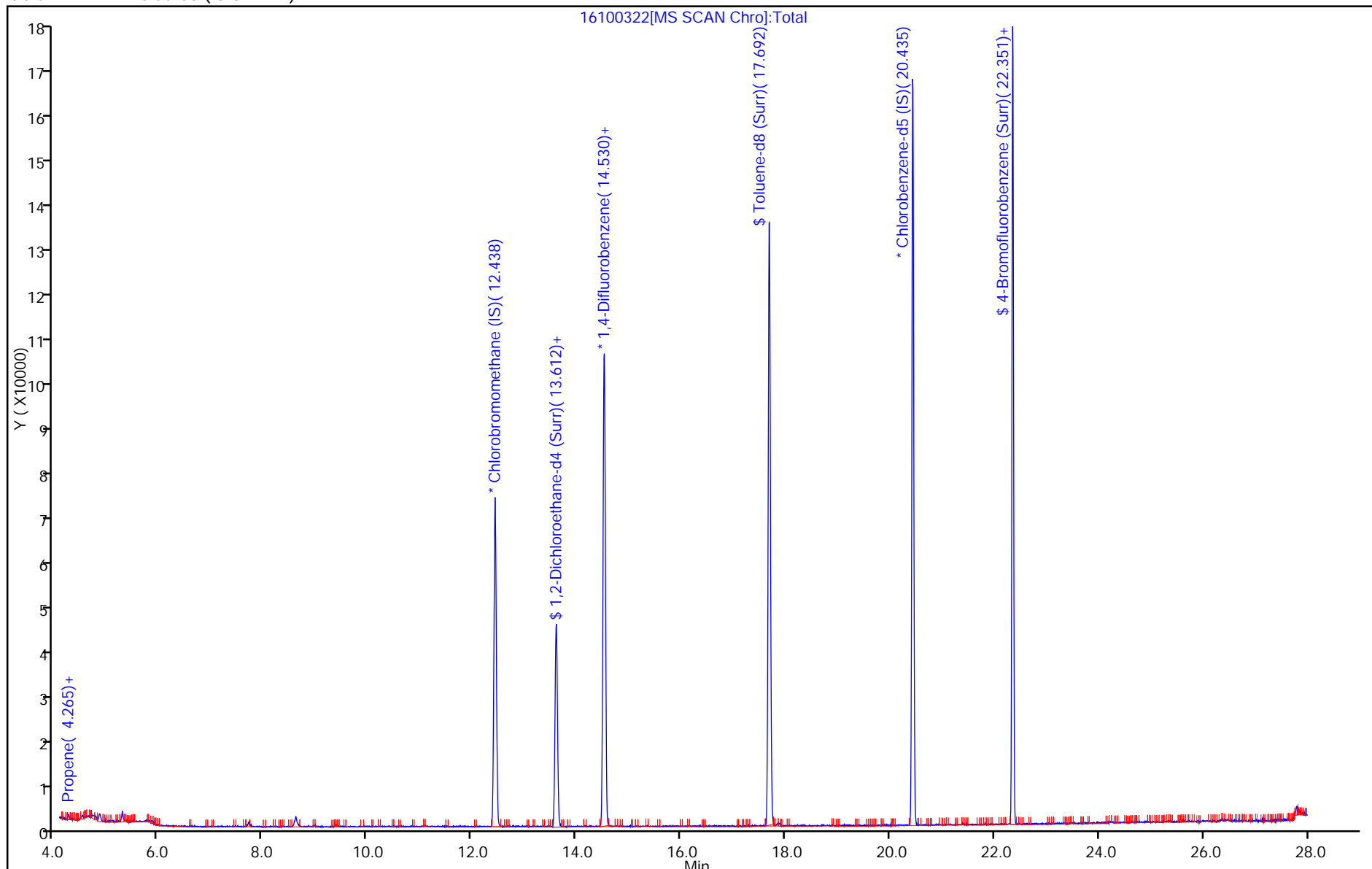
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: TO15_ATMS11

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)



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

Lab Name: TestAmerica Sacramento Job No.: 320-22237-1
 SDG No.: _____
 Client Sample ID: 34000227 Lab Sample ID: 320-22237-1
 Matrix: Air Lab File ID: MS9100321.D
 Analysis Method: TO-15 Date Collected: 09/29/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/04/2016 04:44
 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.: 130405 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | ND | | 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 | 0.11 |
| 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.: 320-22237-1
 SDG No.: _____
 Client Sample ID: 34000227 Lab Sample ID: 320-22237-1
 Matrix: Air Lab File ID: MS9100321.D
 Analysis Method: TO-15 Date Collected: 09/29/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/04/2016 04:44
 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.: 130405 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22237-1
 SDG No.: _____
 Client Sample ID: 34000227 Lab Sample ID: 320-22237-1
 Matrix: Air Lab File ID: MS9100321.D
 Analysis Method: TO-15 Date Collected: 09/29/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/04/2016 04:44
 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.: 130405 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) | 89 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 101 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161003-35211.b\MS9100321.D
 Lims ID: 320-22237-A-1
 Client ID: 34000227
 Sample Type: Client
 Inject. Date: 04-Oct-2016 04:44:30 ALS Bottle#: 3 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22237-A-1
 Misc. Info.: 500
 Operator ID: SV Instrument ID: ATMS9
 Method: \\ChromNA\Sacramento\ChromData\ATMS9\20161003-35211.b\TO15_ATMS9N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 11:16:54 Calib Date: 29-Sep-2016 01:36:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20160928-35069.b\MS9092812.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: phanthasena Date: 04-Oct-2016 19:25:09

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.424 | 12.430 | -0.006 | 96 | 53043 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.523 | 14.529 | -0.006 | 96 | 224453 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.442 | 20.442 | 0.000 | 90 | 193514 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.598 | 13.604 | -0.006 | 99 | 85012 | 4.02 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 97 | 139652 | 3.87 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.358 | 22.358 | 0.000 | 83 | 96320 | 3.57 | |
| 14 Propene | 41 | 4.248 | 4.199 | 0.049 | 4 | 583 | 0.0387 | |
| 47 Methylene Chloride | 49 | 8.956 | 8.956 | 0.000 | 23 | 852 | 0.0402 | |
| 88 n-Octane | 43 | 17.692 | 17.698 | -0.006 | 47 | 1588 | 0.0281 | |

Reagents:

VAMSIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161003-35211.b\MS9100321.D

Injection Date: 04-Oct-2016 04:44:30

Instrument ID: ATMS9

Operator ID: SV

Lims ID: 320-22237-A-1

Lab Sample ID: 320-22237-1

Worklist Smp#: 21

Client ID: 34000227

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

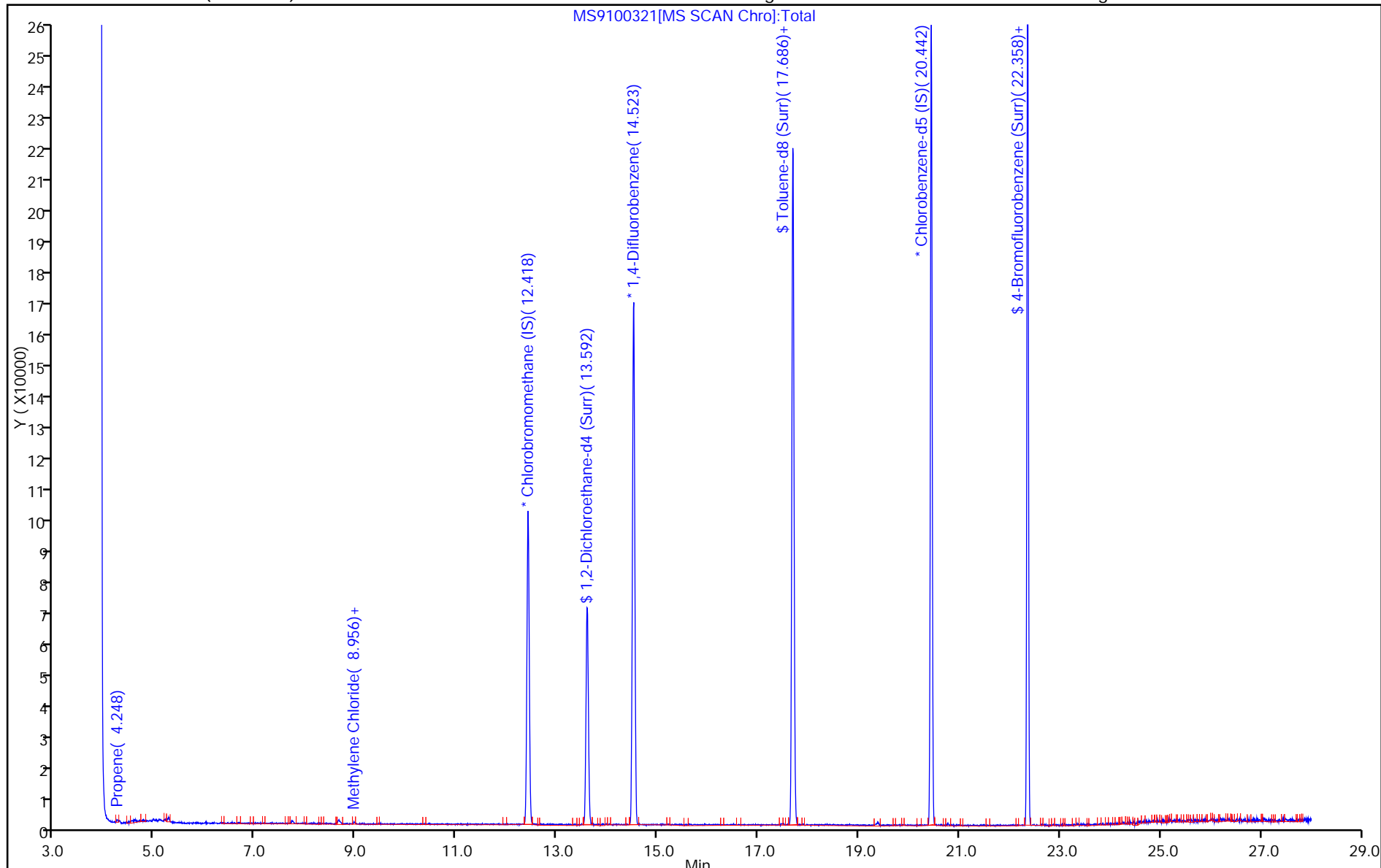
ALS Bottle#: 3

Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



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

Lab Name: TestAmerica Sacramento Job No.: 320-22237-1
 SDG No.: _____
 Client Sample ID: 34000763 Lab Sample ID: 320-22237-2
 Matrix: Air Lab File ID: MS9100322.D
 Analysis Method: TO-15 Date Collected: 09/29/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/04/2016 05:39
 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.: 130405 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | ND | | 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 | 0.11 |
| 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.: 320-22237-1
 SDG No.: _____
 Client Sample ID: 34000763 Lab Sample ID: 320-22237-2
 Matrix: Air Lab File ID: MS9100322.D
 Analysis Method: TO-15 Date Collected: 09/29/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/04/2016 05:39
 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.: 130405 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22237-1
 SDG No.: _____
 Client Sample ID: 34000763 Lab Sample ID: 320-22237-2
 Matrix: Air Lab File ID: MS9100322.D
 Analysis Method: TO-15 Date Collected: 09/29/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/04/2016 05:39
 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.: 130405 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) | 88 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 100 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161003-35211.b\MS9100322.D
 Lims ID: 320-22237-A-2
 Client ID: 34000763
 Sample Type: Client
 Inject. Date: 04-Oct-2016 05:39:30 ALS Bottle#: 4 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22237-A-2
 Misc. Info.: 500
 Operator ID: SV Instrument ID: ATMS9
 Method: \\ChromNA\Sacramento\ChromData\ATMS9\20161003-35211.b\TO15_ATMS9N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 04-Oct-2016 11:16:54 Calib Date: 29-Sep-2016 01:36:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20160928-35069.b\MS9092812.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK049

First Level Reviewer: phanthasena

Date: 04-Oct-2016 20:16:37

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.412 | 12.430 | -0.018 | 97 | 53021 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.517 | 14.529 | -0.012 | 96 | 224741 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.442 | 20.442 | 0.000 | 90 | 193565 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.592 | 13.604 | -0.012 | 99 | 84577 | 4.00 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 97 | 140758 | 3.89 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.358 | 22.358 | 0.000 | 84 | 94943 | 3.52 | |
| 14 Propene | 41 | 4.223 | 4.199 | 0.024 | 24 | 541 | 0.0359 | |
| 15 Dichlorodifluoromethane | 85 | 4.272 | 4.272 | 0.000 | 86 | 982 | 0.0248 | |
| 31 Acetone | 43 | 7.721 | 7.642 | 0.079 | 96 | 1354 | 0.0460 | |
| 47 Methylene Chloride | 49 | 8.950 | 8.956 | -0.006 | 5 | 866 | 0.0409 | |
| 88 n-Octane | 43 | 17.692 | 17.698 | -0.006 | 44 | 1557 | 0.0276 | |

Reagents:

VAMSIS20_00002

Amount Added: 50.00

Units: mL

Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161003-35211.b\MS9100322.D

Injection Date: 04-Oct-2016 05:39:30

Instrument ID: ATMS9

Operator ID: SV

Lims ID: 320-22237-A-2

Lab Sample ID: 320-22237-2

Worklist Smp#: 22

Client ID: 34000763

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

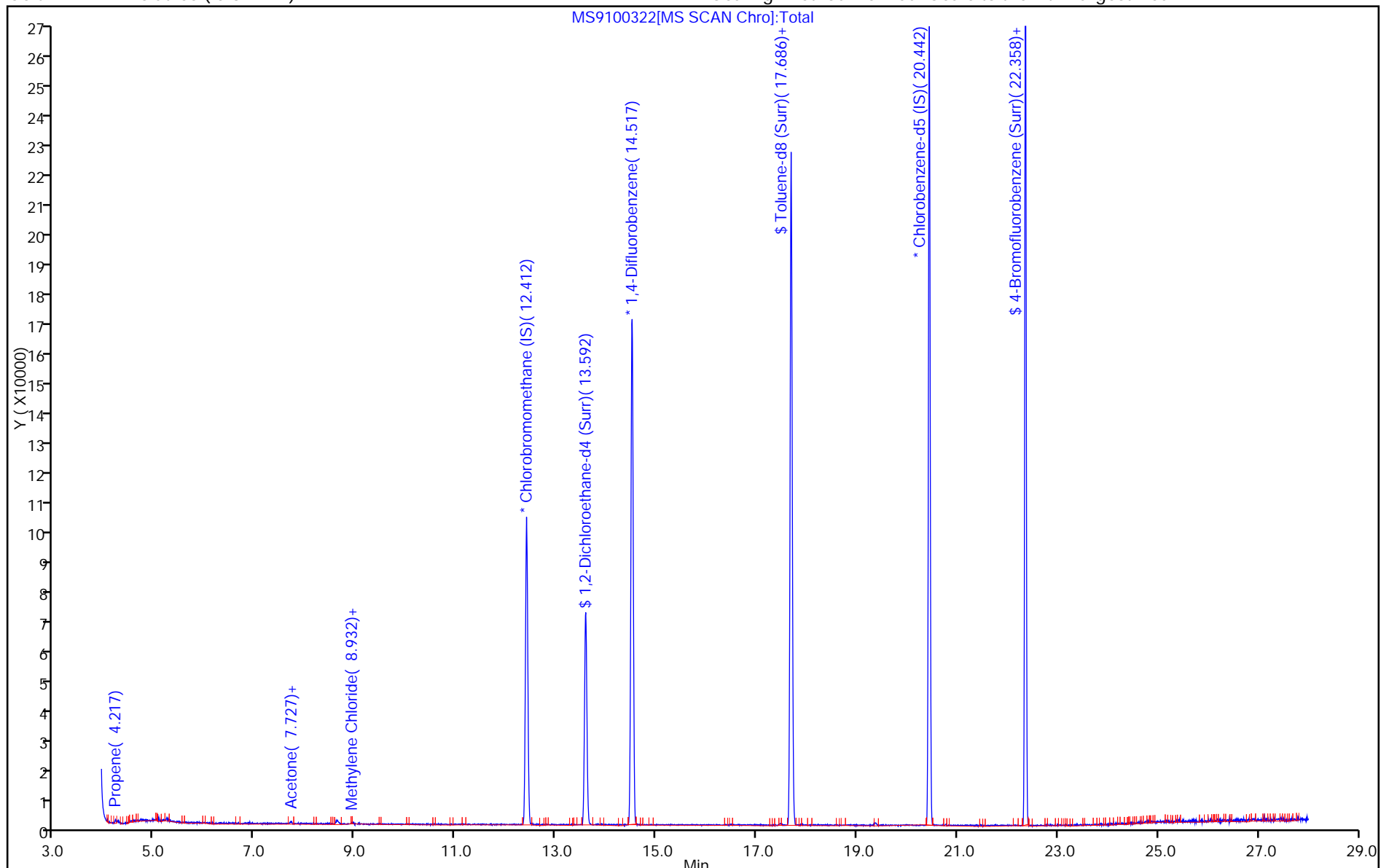
ALS Bottle#: 4

Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



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

Lab Name: TestAmerica Sacramento Job No.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.21 | 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 | 0.11 |
| 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.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 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 | 0.050 |
| 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 | 0.053 | J | 0.40 | 0.051 |
| 109-99-9 | Tetrahydrofuran | ND | | 0.80 | 0.079 |
| 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.: 320-22410-1
 SDG No.: _____
 Client Sample ID: 34000773 Lab Sample ID: 320-22410-1
 Matrix: Air Lab File ID: MS9100621.D
 Analysis Method: TO-15 Date Collected: 10/05/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/07/2016 08:39
 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.: 131160 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) | 101 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 92 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D
 Lims ID: 320-22410-A-1
 Client ID: 34000773
 Sample Type: Client
 Inject. Date: 07-Oct-2016 08:39:30 ALS Bottle#: 4 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22410-A-1
 Misc. Info.: 500 mL
 Operator ID: KY Instrument ID: ATMS9
 Method: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\TO15_ATMS9N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 10-Oct-2016 09:33:02 Calib Date: 29-Sep-2016 01:36:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20160928-35069.b\MS9092812.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK018

First Level Reviewer: vanommens

Date: 10-Oct-2016 09:33:02

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.418 | 12.430 | -0.012 | 99 | 52380 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.517 | 14.529 | -0.012 | 95 | 222382 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.442 | 20.442 | 0.000 | 89 | 199064 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.592 | 13.604 | -0.012 | 98 | 76461 | 3.66 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.692 | -0.006 | 99 | 137759 | 3.85 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.358 | 22.358 | 0.000 | 86 | 111537 | 4.02 | |
| 14 Propene | 41 | 4.229 | 4.199 | 0.030 | 27 | 587 | 0.0394 | |
| 31 Acetone | 43 | 7.727 | 7.648 | 0.079 | 91 | 6209 | 0.2133 | |
| 93 Tetrachloroethene | 166 | 19.128 | 19.128 | 0.000 | 93 | 1416 | 0.0533 | |

Reagents:

VAMIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Operator ID: KY

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Worklist Smp#: 21

Client ID: 34000773

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

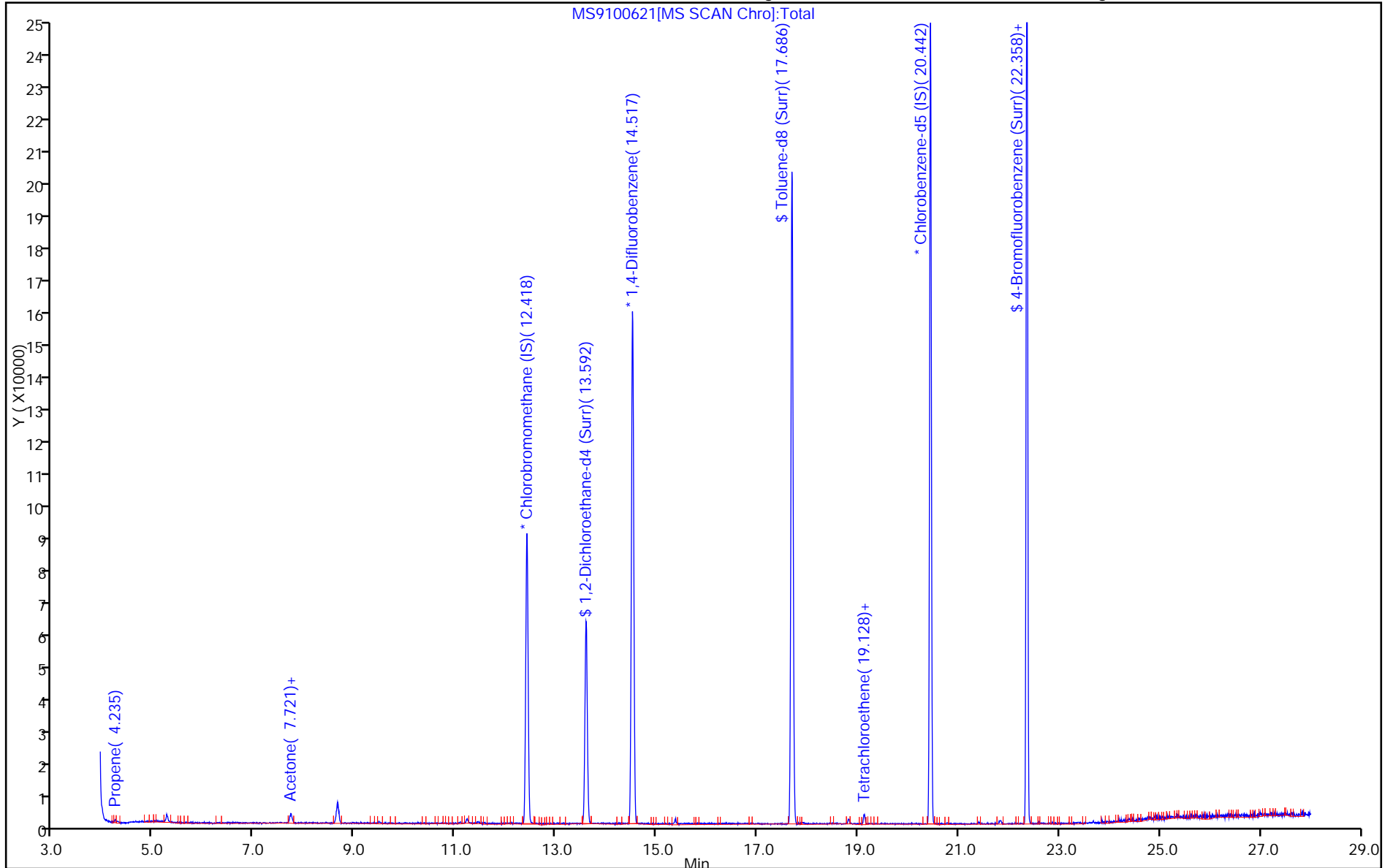
ALS Bottle#: 4

Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Client ID: 34000773

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

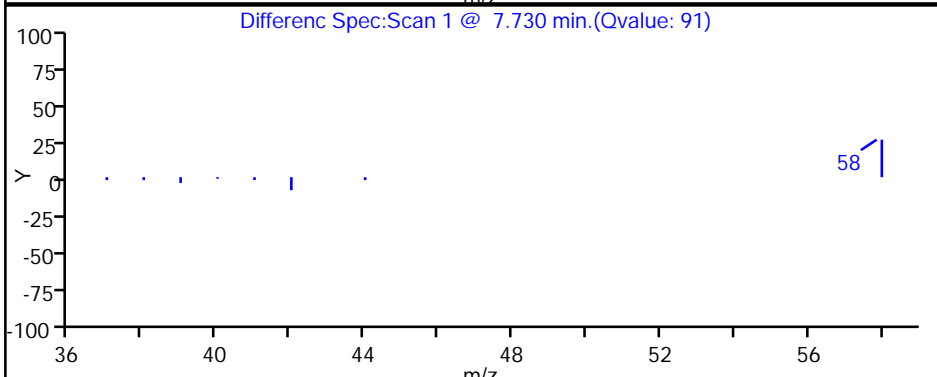
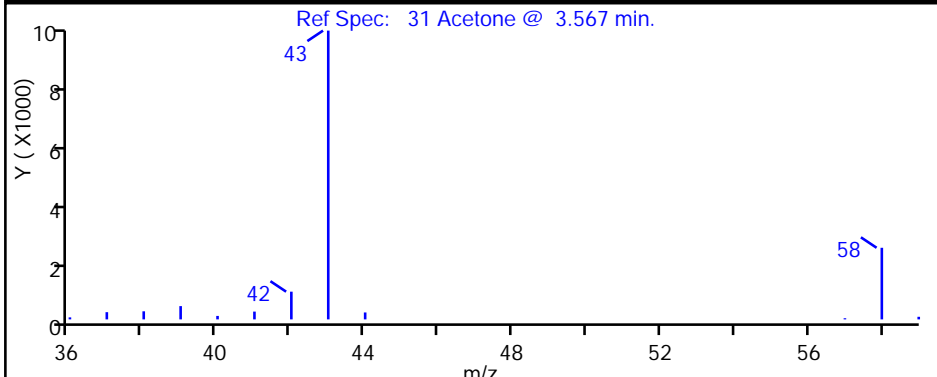
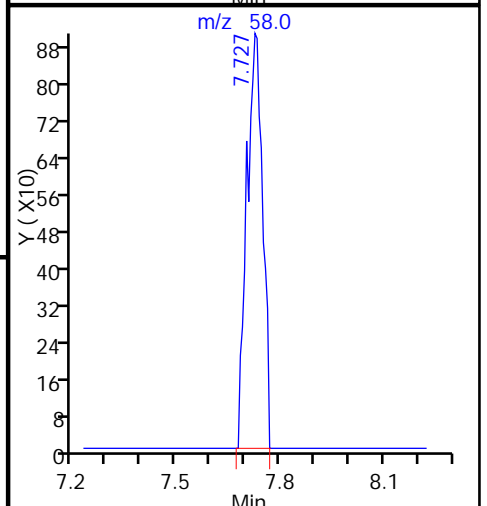
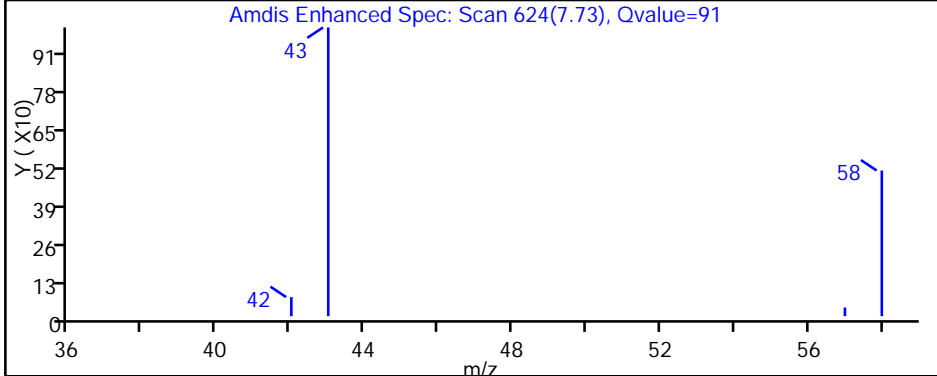
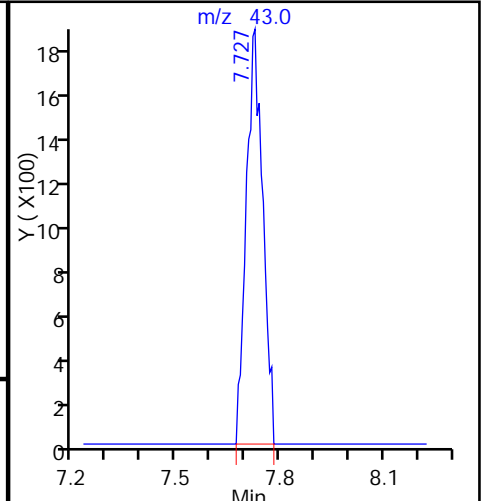
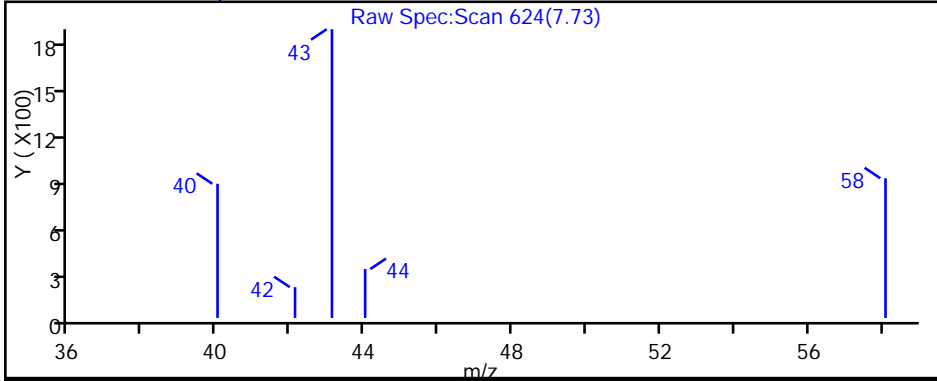
Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161006-35345.b\MS9100621.D

Injection Date: 07-Oct-2016 08:39:30

Instrument ID: ATMS9

Lims ID: 320-22410-A-1

Lab Sample ID: 320-22410-1

Client ID: 34000773

Operator ID: KY

ALS Bottle#: 4 Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

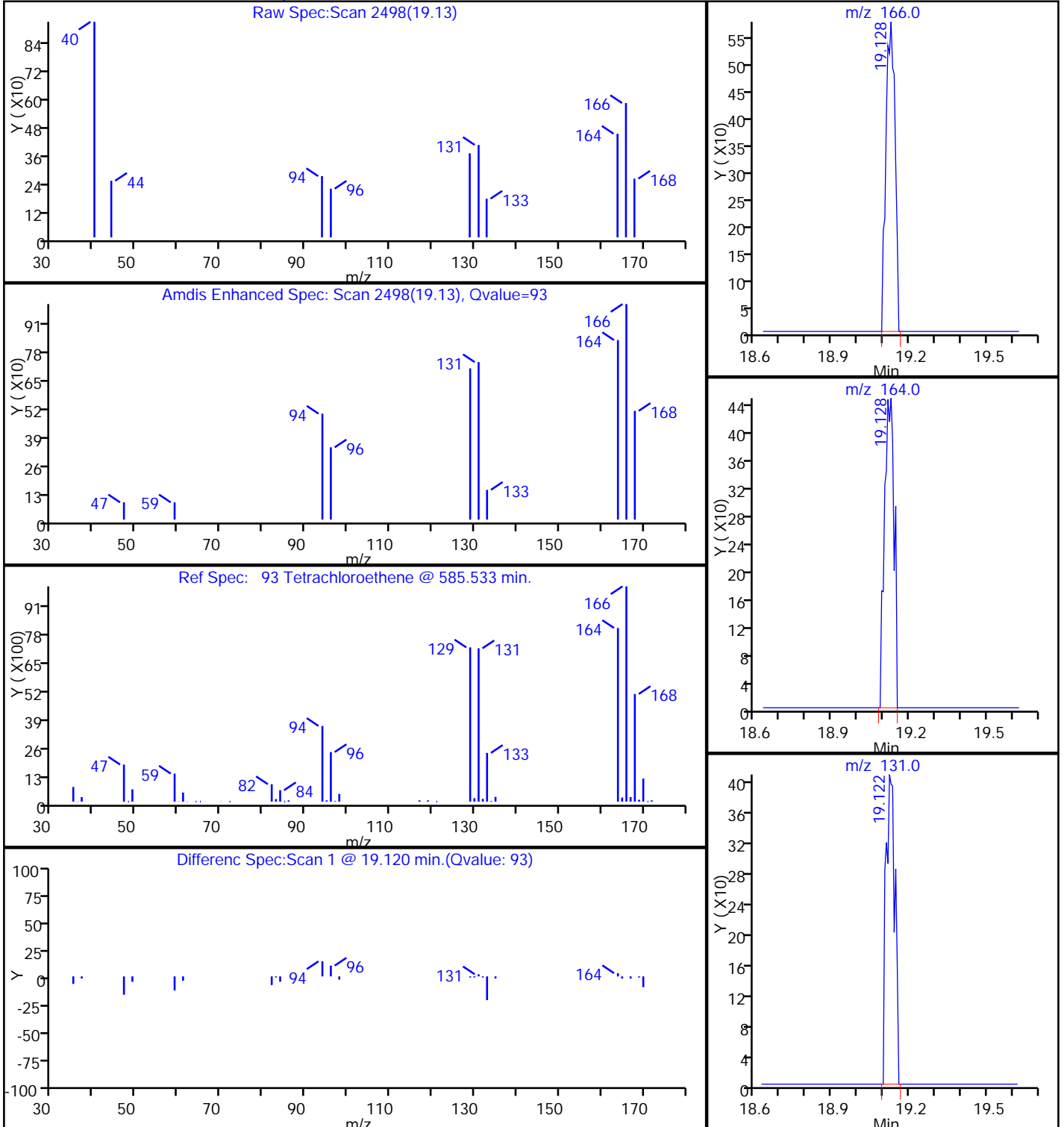
Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

93 Tetrachloroethene, CAS: 127-18-4



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

Lab Name: TestAmerica Sacramento Job No.: 320-22465-1
 SDG No.: _____
 Client Sample ID: 34001923 Lab Sample ID: 320-22465-1
 Matrix: Air Lab File ID: MS9100716.D
 Analysis Method: TO-15 Date Collected: 10/06/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/08/2016 04:04
 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.: 131390 Units: ppb v/v

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|----------|--|--------|---|------|-------|
| 67-64-1 | Acetone | 0.24 | 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 | 0.11 |
| 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.: 320-22465-1
 SDG No.: _____
 Client Sample ID: 34001923 Lab Sample ID: 320-22465-1
 Matrix: Air Lab File ID: MS9100716.D
 Analysis Method: TO-15 Date Collected: 10/06/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/08/2016 04:04
 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.: 131390 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 | 0.050 |
| 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 | 0.079 |
| 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.: 320-22465-1
 SDG No.: _____
 Client Sample ID: 34001923 Lab Sample ID: 320-22465-1
 Matrix: Air Lab File ID: MS9100716.D
 Analysis Method: TO-15 Date Collected: 10/06/2016 00:00
 Sample wt/vol: 500 (mL) Date Analyzed: 10/08/2016 04:04
 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.: 131390 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) | 102 | | 70-130 |
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 96 | | 70-130 |
| 2037-26-5 | Toluene-d8 (Surr) | 96 | | 70-130 |

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161007-35398.b\MS9100716.D
 Lims ID: 320-22465-A-1
 Client ID: 34001923
 Sample Type: Client
 Inject. Date: 08-Oct-2016 04:04:30 ALS Bottle#: 13 Worklist Smp#: 34
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 320-22465-A-1
 Misc. Info.: 500
 Operator ID: SV Instrument ID: ATMS9
 Method: \\ChromNA\Sacramento\ChromData\ATMS9\20161007-35398.b\TO15_ATMS9N.m
 Limit Group: MSA - TO15 - ICAL
 Last Update: 10-Oct-2016 09:45:12 Calib Date: 29-Sep-2016 01:36:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\ATMS9\20160928-35069.b\MS9092812.D
 Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
 Process Host: XAWRK013

First Level Reviewer: phanthasena

Date: 10-Oct-2016 09:45:12

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ppb v/v | Flags |
|---------------------------------|-----|-----------|---------------|---------------|----|----------|-------------------|-------|
| * 1 Chlorobromomethane (IS) | 130 | 12.418 | 12.430 | -0.012 | 95 | 44731 | 4.00 | |
| * 2 1,4-Difluorobenzene | 114 | 14.523 | 14.529 | -0.006 | 95 | 195552 | 4.00 | |
| * 3 Chlorobenzene-d5 (IS) | 117 | 20.442 | 20.442 | 0.000 | 88 | 176537 | 4.00 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 13.592 | 13.604 | -0.012 | 97 | 68287 | 3.83 | |
| \$ 5 Toluene-d8 (Surr) | 100 | 17.686 | 17.686 | 0.000 | 99 | 121477 | 3.86 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 22.358 | 22.358 | 0.000 | 87 | 100345 | 4.08 | |
| 14 Propene | 41 | 4.235 | 4.211 | 0.024 | 62 | 643 | 0.0506 | |
| 15 Dichlorodifluoromethane | 85 | 4.296 | 4.278 | 0.018 | 92 | 1053 | 0.0315 | |
| 31 Acetone | 43 | 7.721 | 7.648 | 0.073 | 93 | 5956 | 0.2396 | |
| 47 Methylene Chloride | 49 | 8.944 | 8.956 | -0.012 | 1 | 807 | 0.0452 | |
| 76 Trichloroethene | 130 | 15.277 | 15.283 | -0.006 | 0 | 459 | 0.0248 | |
| 88 n-Octane | 43 | 17.680 | 17.698 | -0.018 | 42 | 1004 | 0.0195 | |
| 85 Toluene | 91 | 17.838 | 17.844 | -0.006 | 68 | 1204 | 0.0217 | |
| 126 1,2,4-Trichlorobenzene | 180 | 26.824 | 26.817 | 0.007 | 1 | 349 | 0.0146 | |

Reagents:

VAMSIS20_00002 Amount Added: 50.00 Units: mL Run Reagent

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161007-35398.b\MS9100716.D

Injection Date: 08-Oct-2016 04:04:30

Instrument ID: ATMS9

Operator ID: SV

Lims ID: 320-22465-A-1

Lab Sample ID: 320-22465-1

Worklist Smp#: 34

Client ID: 34001923

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

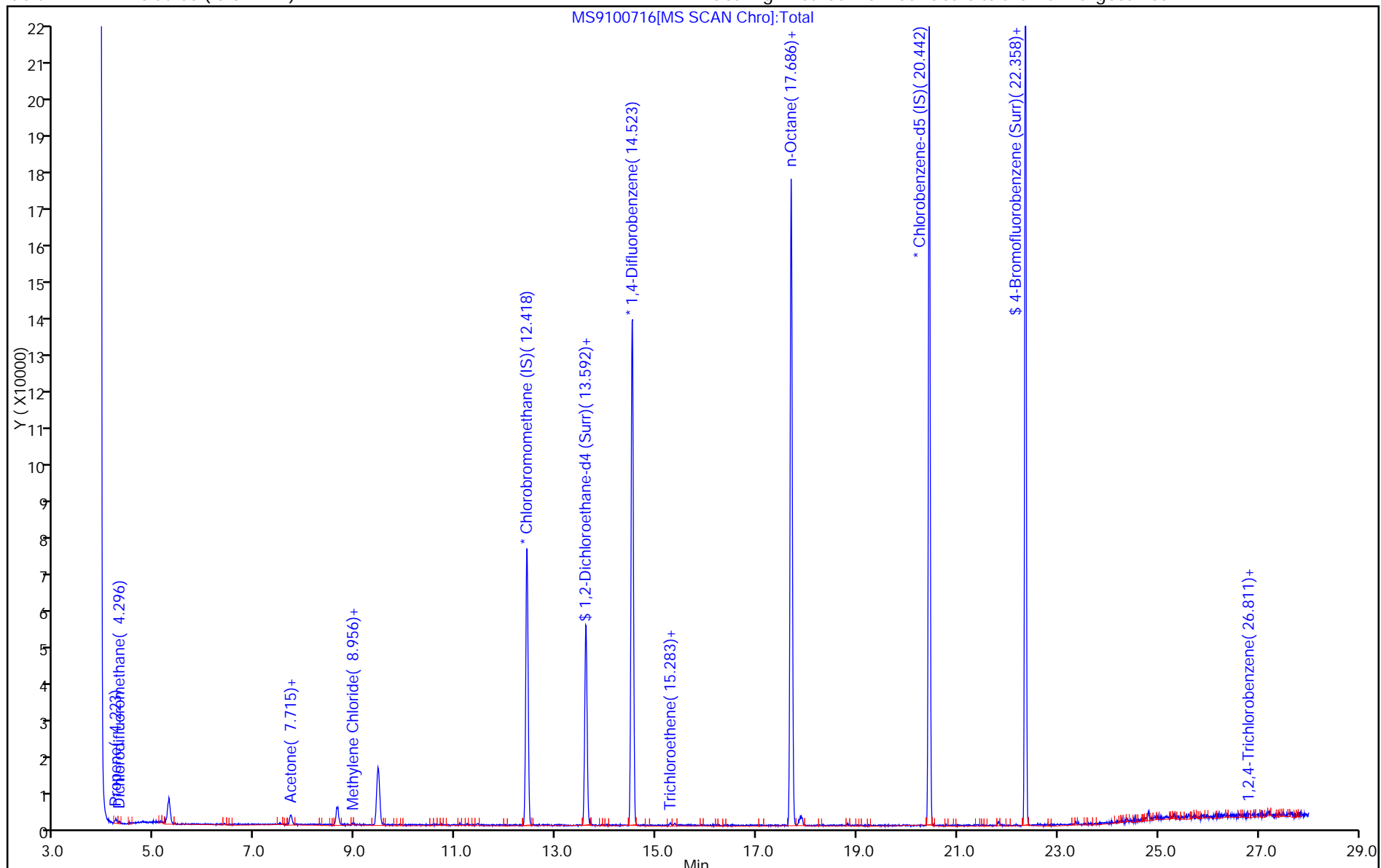
ALS Bottle#: 13

Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 2



TestAmerica Sacramento

Data File: \\ChromNA\Sacramento\ChromData\ATMS9\20161007-35398.b\MS9100716.D

Injection Date: 08-Oct-2016 04:04:30

Instrument ID: ATMS9

Lims ID: 320-22465-A-1

Lab Sample ID: 320-22465-1

Client ID: 34001923

Operator ID: SV

ALS Bottle#: 13 Worklist Smp#: 34

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

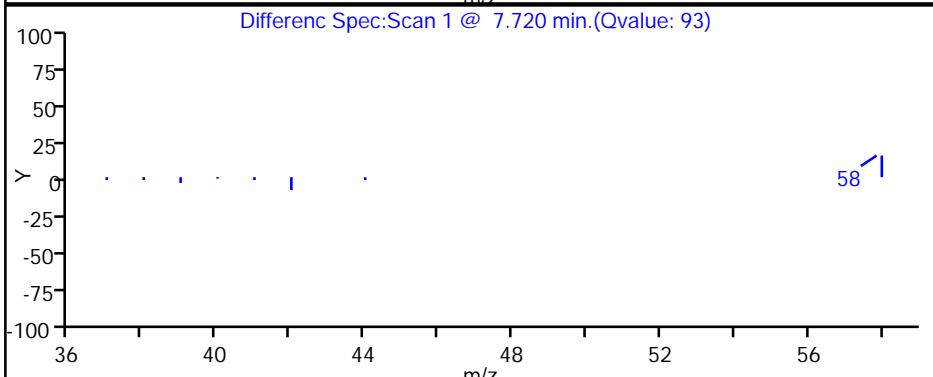
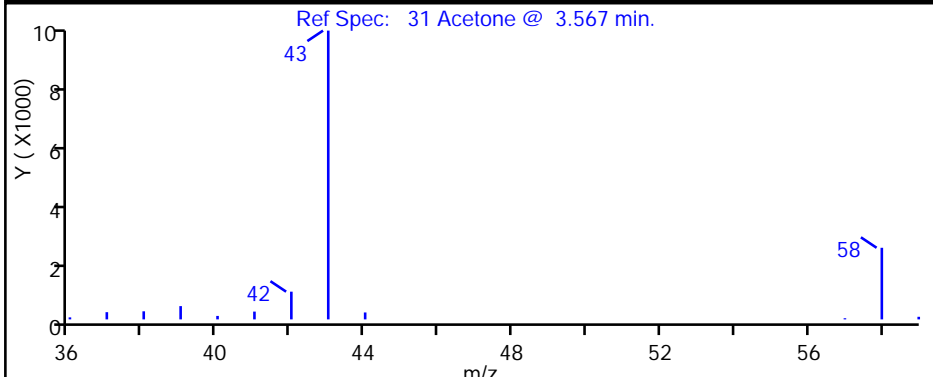
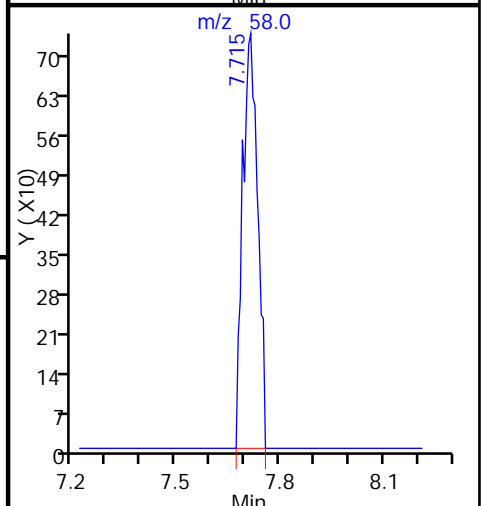
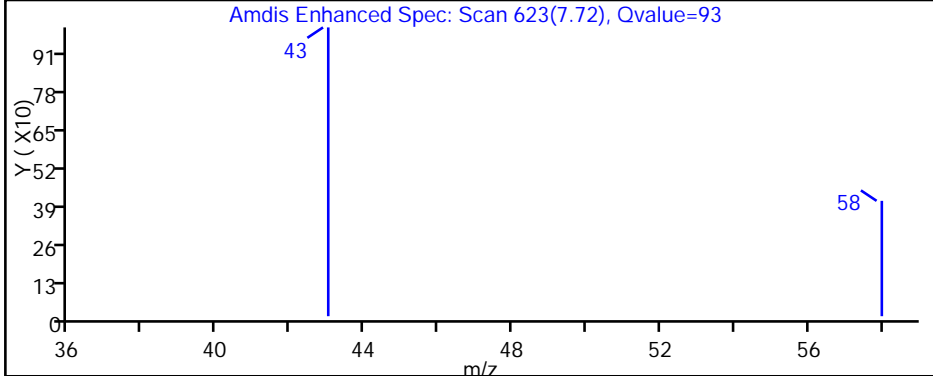
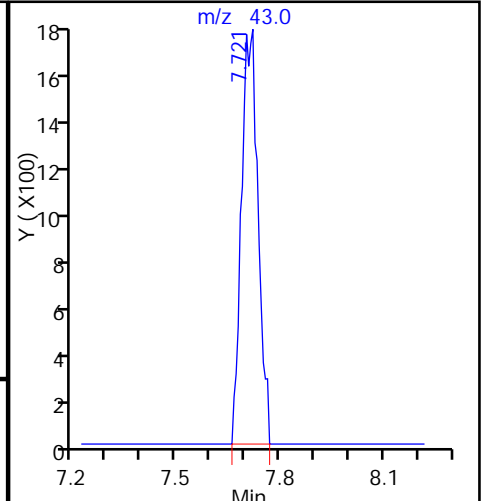
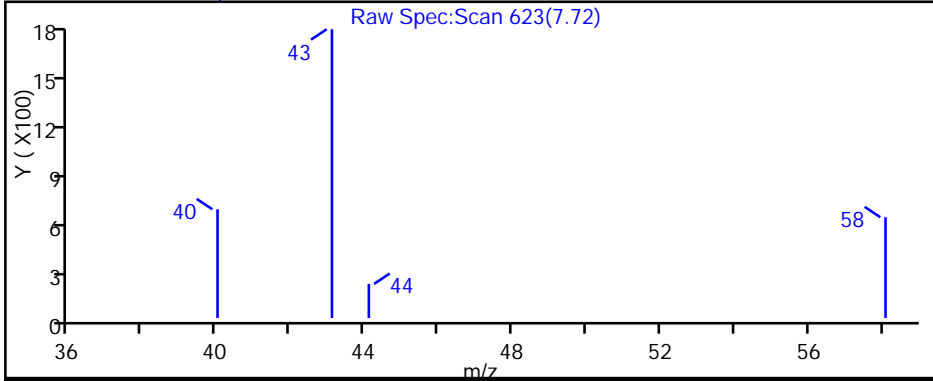
Method: TO15_ATMS9N

Limit Group: MSA - TO15 - ICAL

Column: RTX Volatiles (0.32 mm)

Detector: MS SCAN

31 Acetone, CAS: 67-64-1



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 720-75231-1
Client Project/Site: 6701 Shellmound St, Emeryville Water

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

Attn: Mr. Kyle Flory

Beth Riley

Authorized for release by:
10/21/2016 7:03:55 AM

Beth Riley, Project Manager II
(714)258-8610
beth.riley@testamericainc.com

LINKS

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www.testamericainc.com

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 Water

TestAmerica Job ID: 720-75231-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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) |

Case Narrative

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

TestAmerica Job ID: 720-75231-1

Job ID: 720-75231-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-75231-1**

Comments

No additional comments.

Receipt

The samples were received on 10/19/2016 11:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method(s) 8260B: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: PGW5-GW (720-75231-1).

The sample was analyzed within 7 days per EPA recommendation.

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



Detection Summary

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

TestAmerica Job ID: 720-75231-1

Client Sample ID: PGW5-GW

Lab Sample ID: 720-75231-1

No Detections.

Client Sample ID: PGW4-GW

Lab Sample ID: 720-75231-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| Benzene | 3.2 | | 0.50 | | ug/L | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

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

TestAmerica Job ID: 720-75231-1

Client Sample ID: PGW5-GW

Lab Sample ID: 720-75231-1

Date Collected: 10/19/16 06:15

Matrix: Water

Date Received: 10/19/16 11:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Benzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 10/19/16 20:41 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| N-Propylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |

TestAmerica Pleasanton

Client Sample Results

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

TestAmerica Job ID: 720-75231-1

Client Sample ID: PGW5-GW

Lab Sample ID: 720-75231-1

Date Collected: 10/19/16 06:15

Matrix: Water

Date Received: 10/19/16 11:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 10/19/16 20:41 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 10/19/16 20:41 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 20:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 85 | | 67 - 130 | | 10/19/16 20:41 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 72 - 130 | | 10/19/16 20:41 | 1 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 | | 10/19/16 20:41 | 1 |

Client Sample Results

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

TestAmerica Job ID: 720-75231-1

Client Sample ID: PGW4-GW

Lab Sample ID: 720-75231-2

Date Collected: 10/19/16 06:25

Matrix: Water

Date Received: 10/19/16 11:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|------|---|----------|----------------|---------|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Benzene | 3.2 | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 10/19/16 21:10 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| N-Propylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |

TestAmerica Pleasanton

Client Sample Results

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

TestAmerica Job ID: 720-75231-1

Client Sample ID: PGW4-GW

Lab Sample ID: 720-75231-2

Date Collected: 10/19/16 06:25

Matrix: Water

Date Received: 10/19/16 11:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 10/19/16 21:10 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 10/19/16 21:10 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 21:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 87 | | 67 - 130 | | 10/19/16 21:10 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 72 - 130 | | 10/19/16 21:10 | 1 |
| Toluene-d8 (Surr) | 101 | | 70 - 130 | | 10/19/16 21:10 | 1 |

Surrogate Summary

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (67-130) | 12DCE (72-130) | TOL (70-130) |
|--------------------|------------------------|-----------------|-------------------|-----------------|
| 720-75127-A-33 MS | Matrix Spike | 95 | 96 | 104 |
| 720-75127-A-33 MSD | Matrix Spike Duplicate | 96 | 100 | 105 |
| 720-75231-1 | PGW5-GW | 85 | 98 | 97 |
| 720-75231-2 | PGW4-GW | 87 | 103 | 101 |
| LCS 720-211514/6 | Lab Control Sample | 96 | 96 | 104 |
| LCSD 720-211514/7 | Lab Control Sample Dup | 95 | 92 | 104 |
| MB 720-211514/5 | Method Blank | 88 | 97 | 102 |

Surrogate Legend

BFB = 4-Bromofluorobenzene

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

TOL = Toluene-d8 (Surr)

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-211514/5
Matrix: Water
Analysis Batch: 211514

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Benzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 10/19/16 10:59 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| N-Propylbenzene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-211514/5
Matrix: Water
Analysis Batch: 211514

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 10/19/16 10:59 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 10/19/16 10:59 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/19/16 10:59 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 88 | | 67 - 130 | | 10/19/16 10:59 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 72 - 130 | | 10/19/16 10:59 | 1 |
| Toluene-d8 (Surr) | 102 | | 70 - 130 | | 10/19/16 10:59 | 1 |

Lab Sample ID: LCS 720-211514/6
Matrix: Water
Analysis Batch: 211514

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|------|---|------|--------------|
| Methyl tert-butyl ether | 25.0 | 24.6 | | ug/L | | 99 | 62 - 130 |
| Acetone | 125 | 131 | | ug/L | | 105 | 26 - 180 |
| Benzene | 25.0 | 27.3 | | ug/L | | 109 | 79 - 130 |
| Dichlorobromomethane | 25.0 | 29.0 | | ug/L | | 116 | 70 - 130 |
| Bromobenzene | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 |
| Chlorobromomethane | 25.0 | 27.9 | | ug/L | | 112 | 70 - 130 |
| Bromoform | 25.0 | 33.3 | | ug/L | | 133 | 68 - 136 |
| Bromomethane | 25.0 | 24.4 | | ug/L | | 98 | 43 - 151 |
| 2-Butanone (MEK) | 125 | 136 | | ug/L | | 109 | 54 - 153 |
| n-Butylbenzene | 25.0 | 26.3 | | ug/L | | 105 | 70 - 142 |
| sec-Butylbenzene | 25.0 | 26.2 | | ug/L | | 105 | 70 - 134 |
| tert-Butylbenzene | 25.0 | 27.8 | | ug/L | | 111 | 70 - 135 |
| Carbon disulfide | 25.0 | 27.8 | | ug/L | | 111 | 68 - 146 |
| Carbon tetrachloride | 25.0 | 30.4 | | ug/L | | 121 | 70 - 146 |
| Chlorobenzene | 25.0 | 27.3 | | ug/L | | 109 | 70 - 130 |
| Chloroethane | 25.0 | 22.6 | | ug/L | | 90 | 62 - 138 |
| Chloroform | 25.0 | 27.3 | | ug/L | | 109 | 70 - 130 |
| Chloromethane | 25.0 | 19.4 | | ug/L | | 78 | 52 - 175 |
| 2-Chlorotoluene | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211514/6

Matrix: Water

Analysis Batch: 211514

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| 4-Chlorotoluene | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 |
| Chlorodibromomethane | 25.0 | 30.3 | | ug/L | | 121 | 70 - 145 |
| 1,2-Dichlorobenzene | 25.0 | 29.2 | | ug/L | | 117 | 70 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 27.9 | | ug/L | | 112 | 70 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 27.8 | | ug/L | | 111 | 70 - 130 |
| 1,3-Dichloropropane | 25.0 | 27.6 | | ug/L | | 111 | 70 - 130 |
| 1,1-Dichloropropene | 25.0 | 25.4 | | ug/L | | 102 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 28.1 | | ug/L | | 112 | 70 - 136 |
| Ethylene Dibromide | 25.0 | 28.4 | | ug/L | | 114 | 70 - 130 |
| Dibromomethane | 25.0 | 28.1 | | ug/L | | 112 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 24.8 | | ug/L | | 99 | 32 - 158 |
| 1,1-Dichloroethane | 25.0 | 24.5 | | ug/L | | 98 | 70 - 130 |
| 1,2-Dichloroethane | 25.0 | 25.0 | | ug/L | | 100 | 61 - 132 |
| 1,1-Dichloroethene | 25.0 | 24.6 | | ug/L | | 98 | 64 - 128 |
| cis-1,2-Dichloroethene | 25.0 | 24.9 | | ug/L | | 100 | 70 - 130 |
| trans-1,2-Dichloroethene | 25.0 | 26.0 | | ug/L | | 104 | 68 - 130 |
| 1,2-Dichloropropane | 25.0 | 27.0 | | ug/L | | 108 | 70 - 130 |
| cis-1,3-Dichloropropene | 25.0 | 29.7 | | ug/L | | 119 | 70 - 130 |
| trans-1,3-Dichloropropene | 25.0 | 26.9 | | ug/L | | 108 | 70 - 140 |
| Ethylbenzene | 25.0 | 26.3 | | ug/L | | 105 | 80 - 120 |
| Hexachlorobutadiene | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 |
| 2-Hexanone | 125 | 118 | | ug/L | | 95 | 60 - 164 |
| Isopropylbenzene | 25.0 | 26.0 | | ug/L | | 104 | 70 - 130 |
| 4-Isopropyltoluene | 25.0 | 27.1 | | ug/L | | 109 | 70 - 130 |
| Methylene Chloride | 25.0 | 25.9 | | ug/L | | 104 | 70 - 147 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 120 | | ug/L | | 96 | 50 - 155 |
| Naphthalene | 25.0 | 28.5 | | ug/L | | 114 | 50 - 130 |
| N-Propylbenzene | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 |
| Styrene | 25.0 | 24.9 | | ug/L | | 99 | 70 - 130 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 29.4 | | ug/L | | 118 | 70 - 130 |
| 1,1,1,2,2-Tetrachloroethane | 25.0 | 29.3 | | ug/L | | 117 | 70 - 130 |
| Tetrachloroethene | 25.0 | 27.0 | | ug/L | | 108 | 70 - 130 |
| Toluene | 25.0 | 26.7 | | ug/L | | 107 | 78 - 120 |
| 1,2,3-Trichlorobenzene | 25.0 | 26.6 | | ug/L | | 106 | 70 - 130 |
| 1,2,4-Trichlorobenzene | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 |
| 1,1,1-Trichloroethane | 25.0 | 28.3 | | ug/L | | 113 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 28.5 | | ug/L | | 114 | 70 - 130 |
| Trichloroethene | 25.0 | 27.9 | | ug/L | | 112 | 70 - 130 |
| Trichlorofluoromethane | 25.0 | 24.0 | | ug/L | | 96 | 66 - 132 |
| 1,2,3-Trichloropropane | 25.0 | 28.8 | | ug/L | | 115 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 26.2 | | ug/L | | 105 | 42 - 162 |
| 1,2,4-Trimethylbenzene | 25.0 | 27.0 | | ug/L | | 108 | 70 - 132 |
| 1,3,5-Trimethylbenzene | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 |
| Vinyl acetate | 25.0 | 22.6 | | ug/L | | 91 | 43 - 163 |
| Vinyl chloride | 25.0 | 21.9 | | ug/L | | 88 | 54 - 135 |
| m-Xylene & p-Xylene | 25.0 | 25.9 | | ug/L | | 103 | 70 - 142 |
| o-Xylene | 25.0 | 26.9 | | ug/L | | 107 | 70 - 130 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211514/6
Matrix: Water
Analysis Batch: 211514

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|------|---|------|--------------|
| 2,2-Dichloropropane | 25.0 | 29.6 | | ug/L | | 118 | 70 - 140 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene | 96 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 72 - 130 |
| Toluene-d8 (Surr) | 104 | | 70 - 130 |

Lab Sample ID: LCSD 720-211514/7
Matrix: Water
Analysis Batch: 211514

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Methyl tert-butyl ether | 25.0 | 24.2 | | ug/L | | 97 | 62 - 130 | 2 | 20 |
| Acetone | 125 | 130 | | ug/L | | 104 | 26 - 180 | 1 | 30 |
| Benzene | 25.0 | 27.3 | | ug/L | | 109 | 79 - 130 | 0 | 20 |
| Dichlorobromomethane | 25.0 | 28.6 | | ug/L | | 115 | 70 - 130 | 1 | 20 |
| Bromobenzene | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 | 0 | 20 |
| Chlorobromomethane | 25.0 | 27.8 | | ug/L | | 111 | 70 - 130 | 1 | 20 |
| Bromoform | 25.0 | 32.1 | | ug/L | | 128 | 68 - 136 | 4 | 20 |
| Bromomethane | 25.0 | 24.3 | | ug/L | | 97 | 43 - 151 | 0 | 20 |
| 2-Butanone (MEK) | 125 | 129 | | ug/L | | 103 | 54 - 153 | 5 | 20 |
| n-Butylbenzene | 25.0 | 27.1 | | ug/L | | 108 | 70 - 142 | 3 | 20 |
| sec-Butylbenzene | 25.0 | 26.5 | | ug/L | | 106 | 70 - 134 | 1 | 20 |
| tert-Butylbenzene | 25.0 | 28.0 | | ug/L | | 112 | 70 - 135 | 1 | 20 |
| Carbon disulfide | 25.0 | 27.8 | | ug/L | | 111 | 68 - 146 | 0 | 20 |
| Carbon tetrachloride | 25.0 | 30.5 | | ug/L | | 122 | 70 - 146 | 0 | 20 |
| Chlorobenzene | 25.0 | 27.4 | | ug/L | | 110 | 70 - 130 | 0 | 20 |
| Chloroethane | 25.0 | 22.6 | | ug/L | | 91 | 62 - 138 | 0 | 20 |
| Chloroform | 25.0 | 27.1 | | ug/L | | 109 | 70 - 130 | 1 | 20 |
| Chloromethane | 25.0 | 19.4 | | ug/L | | 78 | 52 - 175 | 0 | 20 |
| 2-Chlorotoluene | 25.0 | 26.5 | | ug/L | | 106 | 70 - 130 | 1 | 20 |
| 4-Chlorotoluene | 25.0 | 27.3 | | ug/L | | 109 | 70 - 130 | 2 | 20 |
| Chlorodibromomethane | 25.0 | 29.9 | | ug/L | | 120 | 70 - 145 | 1 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 28.9 | | ug/L | | 115 | 70 - 130 | 1 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 27.9 | | ug/L | | 112 | 70 - 130 | 0 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 28.0 | | ug/L | | 112 | 70 - 130 | 0 | 20 |
| 1,3-Dichloropropane | 25.0 | 27.1 | | ug/L | | 108 | 70 - 130 | 2 | 20 |
| 1,1-Dichloropropene | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 | 2 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.8 | | ug/L | | 103 | 70 - 136 | 9 | 20 |
| Ethylene Dibromide | 25.0 | 28.0 | | ug/L | | 112 | 70 - 130 | 2 | 20 |
| Dibromomethane | 25.0 | 28.0 | | ug/L | | 112 | 70 - 130 | 0 | 20 |
| Dichlorodifluoromethane | 25.0 | 25.1 | | ug/L | | 100 | 32 - 158 | 1 | 20 |
| 1,1-Dichloroethane | 25.0 | 24.6 | | ug/L | | 98 | 70 - 130 | 0 | 20 |
| 1,2-Dichloroethane | 25.0 | 24.4 | | ug/L | | 98 | 61 - 132 | 2 | 20 |
| 1,1-Dichloroethene | 25.0 | 24.8 | | ug/L | | 99 | 64 - 128 | 1 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 24.7 | | ug/L | | 99 | 70 - 130 | 1 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 26.6 | | ug/L | | 106 | 68 - 130 | 2 | 20 |
| 1,2-Dichloropropane | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 | 1 | 20 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-211514/7

Matrix: Water

Analysis Batch: 211514

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| cis-1,3-Dichloropropene | 25.0 | 29.3 | | ug/L | | 117 | 70 - 130 | 1 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 26.3 | | ug/L | | 105 | 70 - 140 | 2 | 20 |
| Ethylbenzene | 25.0 | 26.6 | | ug/L | | 106 | 80 - 120 | 1 | 20 |
| Hexachlorobutadiene | 25.0 | 26.3 | | ug/L | | 105 | 70 - 130 | 2 | 20 |
| 2-Hexanone | 125 | 114 | | ug/L | | 91 | 60 - 164 | 4 | 20 |
| Isopropylbenzene | 25.0 | 26.4 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| 4-Isopropyltoluene | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 | 1 | 20 |
| Methylene Chloride | 25.0 | 25.8 | | ug/L | | 103 | 70 - 147 | 0 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 114 | | ug/L | | 91 | 50 - 155 | 5 | 20 |
| Naphthalene | 25.0 | 27.7 | | ug/L | | 111 | 50 - 130 | 3 | 20 |
| N-Propylbenzene | 25.0 | 27.2 | | ug/L | | 109 | 70 - 130 | 1 | 20 |
| Styrene | 25.0 | 25.0 | | ug/L | | 100 | 70 - 130 | 0 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 29.4 | | ug/L | | 118 | 70 - 130 | 0 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 | 6 | 20 |
| Tetrachloroethene | 25.0 | 27.7 | | ug/L | | 111 | 70 - 130 | 2 | 20 |
| Toluene | 25.0 | 27.0 | | ug/L | | 108 | 78 - 120 | 1 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 26.7 | | ug/L | | 107 | 70 - 130 | 1 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 26.5 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 28.4 | | ug/L | | 113 | 70 - 130 | 0 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 28.1 | | ug/L | | 112 | 70 - 130 | 2 | 20 |
| Trichloroethene | 25.0 | 28.1 | | ug/L | | 112 | 70 - 130 | 1 | 20 |
| Trichlorofluoromethane | 25.0 | 23.9 | | ug/L | | 95 | 66 - 132 | 0 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 27.3 | | ug/L | | 109 | 70 - 130 | 5 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 26.2 | | ug/L | | 105 | 42 - 162 | 0 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 27.5 | | ug/L | | 110 | 70 - 132 | 2 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 27.3 | | ug/L | | 109 | 70 - 130 | 2 | 20 |
| Vinyl acetate | 25.0 | 21.1 | | ug/L | | 85 | 43 - 163 | 7 | 20 |
| Vinyl chloride | 25.0 | 22.2 | | ug/L | | 89 | 54 - 135 | 1 | 20 |
| m-Xylene & p-Xylene | 25.0 | 26.4 | | ug/L | | 106 | 70 - 142 | 2 | 20 |
| o-Xylene | 25.0 | 27.1 | | ug/L | | 108 | 70 - 130 | 1 | 20 |
| 2,2-Dichloropropane | 25.0 | 25.9 | | ug/L | | 104 | 70 - 140 | 13 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene | 95 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 72 - 130 |
| Toluene-d8 (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 720-75127-A-33 MS

Matrix: Water

Analysis Batch: 211514

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Methyl tert-butyl ether | ND | | 25.0 | 22.3 | | ug/L | | 89 | 60 - 138 |
| Acetone | ND | | 125 | 117 | | ug/L | | 94 | 60 - 140 |
| Benzene | ND | | 25.0 | 27.3 | | ug/L | | 109 | 60 - 140 |
| Dichlorobromomethane | ND | | 25.0 | 29.3 | | ug/L | | 117 | 60 - 140 |
| Bromobenzene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-75127-A-33 MS

Matrix: Water

Analysis Batch: 211514

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chlorobromomethane | ND | | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 |
| Bromoform | ND | | 25.0 | 29.6 | | ug/L | | 118 | 56 - 140 |
| Bromomethane | ND | | 25.0 | 23.5 | | ug/L | | 94 | 23 - 140 |
| 2-Butanone (MEK) | ND | | 125 | 111 | | ug/L | | 89 | 60 - 140 |
| n-Butylbenzene | ND | | 25.0 | 26.8 | | ug/L | | 107 | 60 - 140 |
| sec-Butylbenzene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 60 - 140 |
| tert-Butylbenzene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 140 |
| Carbon disulfide | ND | | 25.0 | 27.4 | | ug/L | | 105 | 38 - 140 |
| Carbon tetrachloride | ND | | 25.0 | 29.9 | | ug/L | | 120 | 60 - 140 |
| Chlorobenzene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 140 |
| Chloroethane | ND | | 25.0 | 22.3 | | ug/L | | 89 | 51 - 140 |
| Chloroform | ND | | 25.0 | 27.8 | | ug/L | | 111 | 60 - 140 |
| Chloromethane | ND | | 25.0 | 18.9 | | ug/L | | 75 | 52 - 140 |
| 2-Chlorotoluene | ND | | 25.0 | 26.2 | | ug/L | | 105 | 60 - 140 |
| 4-Chlorotoluene | ND | | 25.0 | 26.9 | | ug/L | | 108 | 60 - 140 |
| Chlorodibromomethane | ND | | 25.0 | 28.8 | | ug/L | | 115 | 60 - 140 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 28.8 | | ug/L | | 115 | 60 - 140 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 28.1 | | ug/L | | 113 | 60 - 140 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 28.0 | | ug/L | | 112 | 60 - 140 |
| 1,3-Dichloropropane | ND | | 25.0 | 26.5 | | ug/L | | 106 | 60 - 140 |
| 1,1-Dichloropropene | ND | | 25.0 | 24.7 | | ug/L | | 99 | 60 - 140 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 22.8 | | ug/L | | 91 | 60 - 140 |
| Ethylene Dibromide | ND | | 25.0 | 27.0 | | ug/L | | 108 | 60 - 140 |
| Dibromomethane | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 140 |
| Dichlorodifluoromethane | ND | | 25.0 | 23.7 | | ug/L | | 95 | 38 - 140 |
| 1,1-Dichloroethane | ND | | 25.0 | 24.5 | | ug/L | | 97 | 60 - 140 |
| 1,2-Dichloroethane | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 140 |
| 1,1-Dichloroethene | 1.0 | | 25.0 | 24.2 | | ug/L | | 93 | 60 - 140 |
| cis-1,2-Dichloroethene | 6.7 | | 25.0 | 31.8 | | ug/L | | 100 | 60 - 140 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 24.9 | | ug/L | | 99 | 60 - 140 |
| 1,2-Dichloropropane | ND | | 25.0 | 26.8 | | ug/L | | 107 | 60 - 140 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 27.8 | | ug/L | | 111 | 60 - 140 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 25.0 | | ug/L | | 100 | 60 - 140 |
| Ethylbenzene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 60 - 140 |
| Hexachlorobutadiene | ND | | 25.0 | 25.6 | | ug/L | | 102 | 60 - 140 |
| 2-Hexanone | ND | | 125 | 101 | | ug/L | | 80 | 60 - 140 |
| Isopropylbenzene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 60 - 140 |
| 4-Isopropyltoluene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 140 |
| Methylene Chloride | ND | | 25.0 | 26.1 | | ug/L | | 104 | 40 - 140 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 106 | | ug/L | | 85 | 58 - 130 |
| Naphthalene | ND | | 25.0 | 25.6 | | ug/L | | 103 | 56 - 140 |
| N-Propylbenzene | ND | | 25.0 | 26.4 | | ug/L | | 106 | 60 - 140 |
| Styrene | ND | | 25.0 | 24.5 | | ug/L | | 98 | 60 - 140 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 29.2 | | ug/L | | 117 | 60 - 140 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 25.6 | | ug/L | | 102 | 60 - 140 |
| Tetrachloroethene | ND | | 25.0 | 27.1 | | ug/L | | 108 | 60 - 140 |
| Toluene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 60 - 140 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-75127-A-33 MS

Matrix: Water

Analysis Batch: 211514

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 60 - 140 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 28.4 | | ug/L | | 113 | 60 - 140 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 27.6 | | ug/L | | 111 | 60 - 140 |
| Trichloroethene | 26 | | 25.0 | 52.4 | | ug/L | | 108 | 60 - 140 |
| Trichlorofluoromethane | ND | | 25.0 | 23.0 | | ug/L | | 92 | 60 - 140 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 25.6 | | ug/L | | 102 | 60 - 140 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 25.0 | 24.8 | | ug/L | | 99 | 60 - 140 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 27.0 | | ug/L | | 108 | 60 - 140 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 26.8 | | ug/L | | 107 | 60 - 140 |
| Vinyl acetate | ND | | 25.0 | 18.4 | | ug/L | | 74 | 40 - 140 |
| Vinyl chloride | ND | | 25.0 | 21.6 | | ug/L | | 86 | 58 - 140 |
| m-Xylene & p-Xylene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 60 - 140 |
| o-Xylene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 60 - 140 |
| 2,2-Dichloropropane | ND | | 25.0 | 25.0 | | ug/L | | 100 | 60 - 140 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene | 95 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 72 - 130 |
| Toluene-d8 (Surr) | 104 | | 70 - 130 |

Lab Sample ID: 720-75127-A-33 MSD

Matrix: Water

Analysis Batch: 211514

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Methyl tert-butyl ether | ND | | 25.0 | 25.0 | | ug/L | | 100 | 60 - 138 | 12 | 20 |
| Acetone | ND | | 125 | 132 | | ug/L | | 106 | 60 - 140 | 12 | 20 |
| Benzene | ND | | 25.0 | 27.4 | | ug/L | | 109 | 60 - 140 | 0 | 20 |
| Dichlorobromomethane | ND | | 25.0 | 30.3 | | ug/L | | 121 | 60 - 140 | 3 | 20 |
| Bromobenzene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 60 - 140 | 1 | 20 |
| Chlorobromomethane | ND | | 25.0 | 28.0 | | ug/L | | 112 | 60 - 140 | 5 | 20 |
| Bromoform | ND | | 25.0 | 32.1 | | ug/L | | 128 | 56 - 140 | 8 | 20 |
| Bromomethane | ND | | 25.0 | 25.0 | | ug/L | | 100 | 23 - 140 | 6 | 20 |
| 2-Butanone (MEK) | ND | | 125 | 128 | | ug/L | | 103 | 60 - 140 | 14 | 20 |
| n-Butylbenzene | ND | | 25.0 | 25.9 | | ug/L | | 104 | 60 - 140 | 4 | 20 |
| sec-Butylbenzene | ND | | 25.0 | 25.6 | | ug/L | | 102 | 60 - 140 | 2 | 20 |
| tert-Butylbenzene | ND | | 25.0 | 27.1 | | ug/L | | 108 | 60 - 140 | 1 | 20 |
| Carbon disulfide | ND | | 25.0 | 27.9 | | ug/L | | 106 | 38 - 140 | 2 | 20 |
| Carbon tetrachloride | ND | | 25.0 | 30.1 | | ug/L | | 120 | 60 - 140 | 1 | 20 |
| Chlorobenzene | ND | | 25.0 | 27.3 | | ug/L | | 109 | 60 - 140 | 0 | 20 |
| Chloroethane | ND | | 25.0 | 23.1 | | ug/L | | 92 | 51 - 140 | 3 | 20 |
| Chloroform | ND | | 25.0 | 28.2 | | ug/L | | 113 | 60 - 140 | 2 | 20 |
| Chloromethane | ND | | 25.0 | 19.9 | | ug/L | | 80 | 52 - 140 | 5 | 20 |
| 2-Chlorotoluene | ND | | 25.0 | 26.2 | | ug/L | | 105 | 60 - 140 | 0 | 20 |
| 4-Chlorotoluene | ND | | 25.0 | 26.9 | | ug/L | | 107 | 60 - 140 | 0 | 20 |
| Chlorodibromomethane | ND | | 25.0 | 30.4 | | ug/L | | 121 | 60 - 140 | 5 | 20 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 29.4 | | ug/L | | 118 | 60 - 140 | 2 | 20 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-75127-A-33 MSD

Matrix: Water

Analysis Batch: 211514

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,3-Dichlorobenzene | ND | | 25.0 | 28.0 | | ug/L | | 112 | 60 - 140 | 0 | 20 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 28.0 | | ug/L | | 112 | 60 - 140 | 0 | 20 |
| 1,3-Dichloropropane | ND | | 25.0 | 27.9 | | ug/L | | 111 | 60 - 140 | 5 | 20 |
| 1,1-Dichloropropene | ND | | 25.0 | 24.8 | | ug/L | | 99 | 60 - 140 | 0 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 27.3 | | ug/L | | 109 | 60 - 140 | 18 | 20 |
| Ethylene Dibromide | ND | | 25.0 | 28.9 | | ug/L | | 116 | 60 - 140 | 7 | 20 |
| Dibromomethane | ND | | 25.0 | 28.4 | | ug/L | | 114 | 60 - 140 | 4 | 20 |
| Dichlorodifluoromethane | ND | | 25.0 | 24.6 | | ug/L | | 98 | 38 - 140 | 4 | 20 |
| 1,1-Dichloroethane | ND | | 25.0 | 25.1 | | ug/L | | 99 | 60 - 140 | 2 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 26.1 | | ug/L | | 104 | 60 - 140 | 3 | 20 |
| 1,1-Dichloroethene | 1.0 | | 25.0 | 24.5 | | ug/L | | 94 | 60 - 140 | 1 | 20 |
| cis-1,2-Dichloroethene | 6.7 | | 25.0 | 31.9 | | ug/L | | 101 | 60 - 140 | 0 | 20 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 25.5 | | ug/L | | 101 | 60 - 140 | 2 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 27.4 | | ug/L | | 109 | 60 - 140 | 2 | 20 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 29.0 | | ug/L | | 116 | 60 - 140 | 4 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 60 - 140 | 6 | 20 |
| Ethylbenzene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 | 0 | 20 |
| Hexachlorobutadiene | ND | | 25.0 | 24.9 | | ug/L | | 100 | 60 - 140 | 2 | 20 |
| 2-Hexanone | ND | | 125 | 119 | | ug/L | | 95 | 60 - 140 | 17 | 20 |
| Isopropylbenzene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 60 - 140 | 0 | 20 |
| 4-Isopropyltoluene | ND | | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 | 2 | 20 |
| Methylene Chloride | ND | | 25.0 | 26.8 | | ug/L | | 107 | 40 - 140 | 3 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 122 | | ug/L | | 98 | 58 - 130 | 15 | 20 |
| Naphthalene | ND | | 25.0 | 28.4 | | ug/L | | 114 | 56 - 140 | 10 | 20 |
| N-Propylbenzene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 | 1 | 20 |
| Styrene | ND | | 25.0 | 24.7 | | ug/L | | 99 | 60 - 140 | 1 | 20 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 29.8 | | ug/L | | 119 | 60 - 140 | 2 | 20 |
| 1,1,1,2,2-Tetrachloroethane | ND | | 25.0 | 29.0 | | ug/L | | 116 | 60 - 140 | 12 | 20 |
| Tetrachloroethene | ND | | 25.0 | 26.6 | | ug/L | | 106 | 60 - 140 | 2 | 20 |
| Toluene | ND | | 25.0 | 26.2 | | ug/L | | 105 | 60 - 140 | 0 | 20 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 26.8 | | ug/L | | 107 | 60 - 140 | 4 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 25.4 | | ug/L | | 102 | 60 - 140 | 2 | 20 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 29.1 | | ug/L | | 115 | 60 - 140 | 2 | 20 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 28.9 | | ug/L | | 116 | 60 - 140 | 4 | 20 |
| Trichloroethene | 26 | | 25.0 | 52.1 | | ug/L | | 106 | 60 - 140 | 1 | 20 |
| Trichlorofluoromethane | ND | | 25.0 | 23.4 | | ug/L | | 93 | 60 - 140 | 2 | 20 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 28.2 | | ug/L | | 113 | 60 - 140 | 10 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 25.0 | 25.2 | | ug/L | | 100 | 60 - 140 | 1 | 20 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 140 | 1 | 20 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 | 0 | 20 |
| Vinyl acetate | ND | | 25.0 | 20.8 | | ug/L | | 83 | 40 - 140 | 12 | 20 |
| Vinyl chloride | ND | | 25.0 | 23.0 | | ug/L | | 92 | 58 - 140 | 6 | 20 |
| m-Xylene & p-Xylene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 60 - 140 | 0 | 20 |
| o-Xylene | ND | | 25.0 | 27.3 | | ug/L | | 109 | 60 - 140 | 0 | 20 |
| 2,2-Dichloropropane | ND | | 25.0 | 28.7 | | ug/L | | 115 | 60 - 140 | 14 | 20 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75231-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-75127-A-33 MSD

Matrix: Water

Analysis Batch: 211514

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Surrogate | MSD | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene | 96 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 72 - 130 |
| Toluene-d8 (Surr) | 105 | | 70 - 130 |

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QC Association Summary

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

TestAmerica Job ID: 720-75231-1

GC/MS VOA

Analysis Batch: 211514

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 720-75231-1 | PGW5-GW | Total/NA | Water | 8260B | |
| 720-75231-2 | PGW4-GW | Total/NA | Water | 8260B | |
| MB 720-211514/5 | Method Blank | Total/NA | Water | 8260B | |
| LCS 720-211514/6 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 720-211514/7 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| 720-75127-A-33 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 720-75127-A-33 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |

Lab Chronicle

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

TestAmerica Job ID: 720-75231-1

Client Sample ID: PGW5-GW

Date Collected: 10/19/16 06:15

Date Received: 10/19/16 11:35

Lab Sample ID: 720-75231-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 211514 | 10/19/16 20:41 | LPL | TAL PLS |

Client Sample ID: PGW4-GW

Date Collected: 10/19/16 06:25

Date Received: 10/19/16 11:35

Lab Sample ID: 720-75231-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 211514 | 10/19/16 21:10 | LPL | TAL PLS |

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 720-75231-1

Laboratory: TestAmerica Pleasanton

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

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|------------|---------------|------------|------------------|-----------------|
| California | State Program | 9 | 2496 | 01-31-18 |

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | 4040 | 01-29-17 |

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Method Summary

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

TestAmerica Job ID: 720-75231-1

| Method | Method Description | Protocol | Laboratory |
|--------|------------------------------------|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PLS |

Protocol References:

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 720-75231-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 720-75231-1 | PGW5-GW | Water | 10/19/16 06:15 | 10/19/16 11:35 |
| 720-75231-2 | PGW4-GW | Water | 10/19/16 06:25 | 10/19/16 11:35 |

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PES Environmental, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

7665 Redwood Boulevard, Suite 200
Novato, California 94945
(415) 899-1600 FAX (415) 899-1601

ANALYSIS REQUESTED

171699

LABORATORY: Test America

J. Phillips

720-752231

ANALYSIS REQUESTED

10/21/2016

JOB NUMBER: 1448.001.v1.041

NAME/LOCATION: off site Investigation, 6601-6603 Shallowford Rd / Emeryville, CA

PROJECT MANAGER: C. Bladson/K. Flory

REORDER: J. Phillips

| DATE | | | SAMPLE NUMBER / DESIGNATION |
|------|----|-----|-----------------------------|
| YR | MO | DAY | |
| 16 | 10 | 15 | PGW5-GW |
| 16 | 10 | 15 | PGW4-GW |

| MATRIX | # of Containers & Preservatives | | | | | | DEPTH IN FEET |
|--------|---------------------------------|-------|------|---------|---------|--------|---------------|
| | Vapor | Water | Soil | Sedim't | Unpres. | EnCore | |
| | X | | | | | | |
| | X | | | | | | |

| | |
|-------------------------------------|----------------------------|
| <input type="checkbox"/> | EPA 5035/8010 |
| <input type="checkbox"/> | EPA 5035/8021 |
| <input checked="" type="checkbox"/> | EPA 5035/8260B VOCs |
| <input type="checkbox"/> | TPHg by 5035/8015M |
| <input type="checkbox"/> | TPHd by 8015M |
| <input type="checkbox"/> | TPHmo by 8015M |
| <input type="checkbox"/> | EPA 8270C |
| <input type="checkbox"/> | MNA Parameters (see notes) |



720-752231 Chain of Custody

REUSE

NOTES: Turn Around Time: RUSH 48-hr TAT

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature) [Signature] DATE: 10/14/16 TIME: 08:58

RELINQUISHED BY: (Signature) [Signature] DATE: 10/16/16 TIME: 11:35

RELINQUISHED BY: (Signature) _____ DATE: _____ TIME: _____

RELINQUISHED BY: (Signature) _____ DATE: _____ TIME: _____

RELINQUISHED BY: (Signature) _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: Picked up by lab courier in a cooler w/ ice ZL6

Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-75231-1

Login Number: 75231

List Number: 1

Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (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

ANALYTICAL REPORT

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

TestAmerica Job ID: 720-75232-1

Client Project/Site: 6701 Shellmound St, Emeryville Soil

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

Attn: Mr. Kyle Flory

Beth Riley

Authorized for release by:
10/21/2016 4:22:12 PM

Beth Riley, Project Manager II
(714)258-8610
beth.riley@testamericainc.com

LINKS

Review your project
results through
TotalAccess

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www.testamericainc.com

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 Soil

TestAmerica Job ID: 720-75232-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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) |

Case Narrative

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

TestAmerica Job ID: 720-75232-1

Job ID: 720-75232-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-75232-1

Comments

No additional comments.

Receipt

The samples were received on 10/19/2016 11:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

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

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Detection Summary

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

TestAmerica Job ID: 720-75232-1

Client Sample ID: PSV5-5-5.5

Lab Sample ID: 720-75232-1

No Detections.

Client Sample ID: PSV5-9.75-10.25

Lab Sample ID: 720-75232-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|-------|---------|---|--------|-----------|
| Acetone | 53 | | 36 | | ug/Kg | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

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Client Sample Results

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

TestAmerica Job ID: 720-75232-1

Client Sample ID: PSV5-5-5.5

Lab Sample ID: 720-75232-1

Date Collected: 10/19/16 01:10

Matrix: Solid

Date Received: 10/19/16 11:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,1,1-Trichloroethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,1-Dichloroethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,1-Dichloroethene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,1-Dichloropropene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,2,3-Trichloropropane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,2-Dichloroethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,2-Dichloropropane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,3-Dichloropropane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 2,2-Dichloropropane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 2-Butanone (MEK) | ND | | 35 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 2-Chlorotoluene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 2-Hexanone | ND | | 35 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 4-Chlorotoluene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 4-Isopropyltoluene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 35 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Acetone | ND | | 35 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Benzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Bromobenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Bromoform | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Bromomethane | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Carbon disulfide | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Carbon tetrachloride | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Chlorobenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Chlorobromomethane | ND | | 14 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Chlorodibromomethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Chloroethane | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Chloroform | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Chloromethane | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Dibromomethane | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Dichlorobromomethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Dichlorodifluoromethane | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Ethylbenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Ethylene Dibromide | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Hexachlorobutadiene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Isopropylbenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |

TestAmerica Pleasanton

Client Sample Results

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

TestAmerica Job ID: 720-75232-1

Client Sample ID: PSV5-5-5.5

Lab Sample ID: 720-75232-1

Date Collected: 10/19/16 01:10

Matrix: Solid

Date Received: 10/19/16 11:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Methylene Chloride | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Naphthalene | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| n-Butylbenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| N-Propylbenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| sec-Butylbenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Styrene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| tert-Butylbenzene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Tetrachloroethene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Toluene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Trichloroethene | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Trichlorofluoromethane | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Vinyl acetate | ND | | 14 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Vinyl chloride | ND | | 3.5 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Xylenes, Total | ND | | 7.0 | | ug/Kg | | 10/19/16 17:45 | 10/19/16 23:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 60 - 140 | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| 4-Bromofluorobenzene | 94 | | 45 - 131 | 10/19/16 17:45 | 10/19/16 23:32 | 1 |
| Toluene-d8 (Surr) | 92 | | 58 - 140 | 10/19/16 17:45 | 10/19/16 23:32 | 1 |

Client Sample Results

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

TestAmerica Job ID: 720-75232-1

Client Sample ID: PSV5-9.75-10.25

Lab Sample ID: 720-75232-2

Date Collected: 10/19/16 01:30

Matrix: Solid

Date Received: 10/19/16 11:35

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,1,1-Trichloroethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,1-Dichloroethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,1-Dichloroethene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,1-Dichloropropene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,2,3-Trichloropropane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,2-Dichloroethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,2-Dichloropropane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,3-Dichloropropane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 2,2-Dichloropropane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 2-Butanone (MEK) | ND | | 36 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 2-Chlorotoluene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 2-Hexanone | ND | | 36 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 4-Chlorotoluene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 4-Isopropyltoluene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 36 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Acetone | 53 | | 36 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Benzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Bromobenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Bromoform | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Bromomethane | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Carbon disulfide | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Carbon tetrachloride | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Chlorobenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Chlorobromomethane | ND | | 14 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Chlorodibromomethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Chloroethane | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Chloroform | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Chloromethane | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Dibromomethane | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Dichlorobromomethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Dichlorodifluoromethane | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Ethylbenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Ethylene Dibromide | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Hexachlorobutadiene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Isopropylbenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |

TestAmerica Pleasanton

Client Sample Results

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

TestAmerica Job ID: 720-75232-1

Client Sample ID: PSV5-9.75-10.25

Lab Sample ID: 720-75232-2

Date Collected: 10/19/16 01:30

Matrix: Solid

Date Received: 10/19/16 11:35

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Methylene Chloride | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Naphthalene | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| n-Butylbenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| N-Propylbenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| sec-Butylbenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Styrene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| tert-Butylbenzene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Tetrachloroethene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Toluene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Trichloroethene | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Trichlorofluoromethane | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Vinyl acetate | ND | | 14 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Vinyl chloride | ND | | 3.6 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Xylenes, Total | ND | | 7.2 | | ug/Kg | | 10/19/16 17:45 | 10/20/16 11:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 60 - 140 | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| 4-Bromofluorobenzene | 82 | | 45 - 131 | 10/19/16 17:45 | 10/20/16 11:13 | 1 |
| Toluene-d8 (Surr) | 98 | | 58 - 140 | 10/19/16 17:45 | 10/20/16 11:13 | 1 |

Surrogate Summary

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 12DCE (60-140) | BFB (45-131) | TOL (58-140) |
|-------------------|------------------------|-------------------|-----------------|-----------------|
| 720-75232-1 | PSV5-5-5.5 | 109 | 94 | 92 |
| 720-75232-2 | PSV5-9.75-10.25 | 110 | 82 | 98 |
| LCS 720-211563/5 | Lab Control Sample | 99 | 104 | 100 |
| LCS 720-211579/5 | Lab Control Sample | 93 | 95 | 104 |
| LCSD 720-211563/6 | Lab Control Sample Dup | 91 | 101 | 98 |
| LCSD 720-211579/6 | Lab Control Sample Dup | 98 | 95 | 104 |
| MB 720-211563/4 | Method Blank | 102 | 97 | 98 |
| MB 720-211579/4 | Method Blank | 96 | 84 | 98 |

Surrogate Legend

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

BFB = 4-Bromofluorobenzene

TOL = Toluene-d8 (Surr)

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-211563/4

Matrix: Solid

Analysis Batch: 211563

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Bromomethane | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Chloroethane | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Chloromethane | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Dibromomethane | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Dichlorodifluoromethane | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-211563/4
Matrix: Solid
Analysis Batch: 211563

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Methylene Chloride | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Naphthalene | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Vinyl acetate | ND | | 20 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | | 10/19/16 19:05 | 1 |
| Xylenes, Total | ND | | 10 | | ug/Kg | | | 10/19/16 19:05 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 60 - 140 | | 10/19/16 19:05 | 1 |
| 4-Bromofluorobenzene | 97 | | 45 - 131 | | 10/19/16 19:05 | 1 |
| Toluene-d8 (Surr) | 98 | | 58 - 140 | | 10/19/16 19:05 | 1 |

Lab Sample ID: LCS 720-211563/5
Matrix: Solid
Analysis Batch: 211563

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,1,1,2-Tetrachloroethane | 50.0 | 56.2 | | ug/Kg | | 112 | 70 - 130 |
| 1,1,1-Trichloroethane | 50.0 | 51.1 | | ug/Kg | | 102 | 70 - 130 |
| 1,1,1,2-Tetrachloroethane | 50.0 | 55.7 | | ug/Kg | | 111 | 70 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 51.7 | | ug/Kg | | 103 | 60 - 140 |
| 1,1,2-Trichloroethane | 50.0 | 54.0 | | ug/Kg | | 108 | 70 - 130 |
| 1,1-Dichloroethane | 50.0 | 49.2 | | ug/Kg | | 98 | 70 - 130 |
| 1,1-Dichloroethene | 50.0 | 51.2 | | ug/Kg | | 102 | 74 - 122 |
| 1,1-Dichloropropene | 50.0 | 51.1 | | ug/Kg | | 102 | 70 - 130 |
| 1,2,3-Trichlorobenzene | 50.0 | 56.3 | | ug/Kg | | 113 | 60 - 140 |
| 1,2,3-Trichloropropane | 50.0 | 56.4 | | ug/Kg | | 113 | 70 - 146 |
| 1,2,4-Trichlorobenzene | 50.0 | 56.6 | | ug/Kg | | 113 | 60 - 140 |
| 1,2,4-Trimethylbenzene | 50.0 | 52.6 | | ug/Kg | | 105 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 57.5 | | ug/Kg | | 115 | 60 - 145 |
| 1,2-Dichlorobenzene | 50.0 | 52.6 | | ug/Kg | | 105 | 70 - 130 |
| 1,2-Dichloroethane | 50.0 | 55.2 | | ug/Kg | | 110 | 70 - 130 |
| 1,2-Dichloropropane | 50.0 | 53.5 | | ug/Kg | | 107 | 73 - 127 |
| 1,3,5-Trimethylbenzene | 50.0 | 52.6 | | ug/Kg | | 105 | 70 - 131 |
| 1,3-Dichlorobenzene | 50.0 | 50.8 | | ug/Kg | | 102 | 70 - 131 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211563/5

Matrix: Solid

Analysis Batch: 211563

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,3-Dichloropropane | 50.0 | 54.8 | | ug/Kg | | 110 | 70 - 140 |
| 1,4-Dichlorobenzene | 50.0 | 50.6 | | ug/Kg | | 101 | 70 - 130 |
| 2,2-Dichloropropane | 50.0 | 52.7 | | ug/Kg | | 105 | 70 - 162 |
| 2-Butanone (MEK) | 250 | 240 | | ug/Kg | | 96 | 53 - 133 |
| 2-Chlorotoluene | 50.0 | 51.8 | | ug/Kg | | 104 | 70 - 138 |
| 2-Hexanone | 250 | 254 | | ug/Kg | | 101 | 44 - 133 |
| 4-Chlorotoluene | 50.0 | 52.5 | | ug/Kg | | 105 | 70 - 136 |
| 4-Isopropyltoluene | 50.0 | 50.1 | | ug/Kg | | 100 | 70 - 133 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 251 | | ug/Kg | | 100 | 60 - 160 |
| Acetone | 250 | 214 | | ug/Kg | | 86 | 30 - 162 |
| Benzene | 50.0 | 49.7 | | ug/Kg | | 99 | 70 - 130 |
| Bromobenzene | 50.0 | 54.3 | | ug/Kg | | 109 | 70 - 130 |
| Bromoform | 50.0 | 62.5 | | ug/Kg | | 125 | 59 - 158 |
| Bromomethane | 50.0 | 41.8 | | ug/Kg | | 84 | 59 - 132 |
| Carbon disulfide | 50.0 | 54.1 | | ug/Kg | | 108 | 60 - 140 |
| Carbon tetrachloride | 50.0 | 55.5 | | ug/Kg | | 111 | 70 - 142 |
| Chlorobenzene | 50.0 | 51.3 | | ug/Kg | | 103 | 70 - 130 |
| Chlorobromomethane | 50.0 | 52.5 | | ug/Kg | | 105 | 70 - 130 |
| Chlorodibromomethane | 50.0 | 58.3 | | ug/Kg | | 117 | 70 - 146 |
| Chloroethane | 50.0 | 41.6 | | ug/Kg | | 83 | 65 - 130 |
| Chloroform | 50.0 | 53.3 | | ug/Kg | | 107 | 77 - 127 |
| Chloromethane | 50.0 | 40.4 | | ug/Kg | | 81 | 55 - 140 |
| cis-1,2-Dichloroethene | 50.0 | 52.1 | | ug/Kg | | 104 | 70 - 138 |
| cis-1,3-Dichloropropene | 50.0 | 56.4 | | ug/Kg | | 113 | 68 - 147 |
| Dibromomethane | 50.0 | 55.2 | | ug/Kg | | 110 | 70 - 139 |
| Dichlorobromomethane | 50.0 | 56.3 | | ug/Kg | | 113 | 70 - 140 |
| Dichlorodifluoromethane | 50.0 | 39.0 | | ug/Kg | | 78 | 37 - 158 |
| Ethylbenzene | 50.0 | 51.2 | | ug/Kg | | 102 | 80 - 137 |
| Ethylene Dibromide | 50.0 | 57.9 | | ug/Kg | | 116 | 70 - 140 |
| Hexachlorobutadiene | 50.0 | 55.5 | | ug/Kg | | 111 | 70 - 132 |
| Isopropylbenzene | 50.0 | 53.9 | | ug/Kg | | 108 | 70 - 130 |
| Methyl tert-butyl ether | 50.0 | 54.0 | | ug/Kg | | 108 | 70 - 144 |
| Methylene Chloride | 50.0 | 50.9 | | ug/Kg | | 102 | 70 - 134 |
| m-Xylene & p-Xylene | 50.0 | 53.4 | | ug/Kg | | 107 | 70 - 146 |
| Naphthalene | 50.0 | 56.8 | | ug/Kg | | 114 | 60 - 147 |
| n-Butylbenzene | 50.0 | 53.4 | | ug/Kg | | 107 | 70 - 142 |
| N-Propylbenzene | 50.0 | 52.2 | | ug/Kg | | 104 | 70 - 130 |
| o-Xylene | 50.0 | 52.0 | | ug/Kg | | 104 | 70 - 140 |
| sec-Butylbenzene | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 136 |
| Styrene | 50.0 | 55.8 | | ug/Kg | | 112 | 70 - 130 |
| tert-Butylbenzene | 50.0 | 50.6 | | ug/Kg | | 101 | 70 - 130 |
| Tetrachloroethene | 50.0 | 53.9 | | ug/Kg | | 108 | 70 - 132 |
| Toluene | 50.0 | 50.3 | | ug/Kg | | 101 | 75 - 120 |
| trans-1,2-Dichloroethene | 50.0 | 50.8 | | ug/Kg | | 102 | 67 - 130 |
| trans-1,3-Dichloropropene | 50.0 | 56.9 | | ug/Kg | | 114 | 70 - 155 |
| Trichloroethene | 50.0 | 52.6 | | ug/Kg | | 105 | 70 - 133 |
| Trichlorofluoromethane | 50.0 | 47.1 | | ug/Kg | | 94 | 60 - 140 |
| Vinyl acetate | 50.0 | 44.4 | | ug/Kg | | 89 | 38 - 176 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211563/5
Matrix: Solid
Analysis Batch: 211563

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|-------|---|------|--------------|
| Vinyl chloride | 50.0 | 44.7 | | ug/Kg | | 89 | 58 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 60 - 140 |
| 4-Bromofluorobenzene | 104 | | 45 - 131 |
| Toluene-d8 (Surr) | 100 | | 58 - 140 |

Lab Sample ID: LCSD 720-211563/6
Matrix: Solid
Analysis Batch: 211563

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| 1,1,1,2-Tetrachloroethane | 50.0 | 56.1 | | ug/Kg | | 112 | 70 - 130 | 0 | 20 |
| 1,1,1-Trichloroethane | 50.0 | 53.5 | | ug/Kg | | 107 | 70 - 130 | 5 | 20 |
| 1,1,1,2,2-Tetrachloroethane | 50.0 | 49.7 | | ug/Kg | | 99 | 70 - 146 | 11 | 20 |
| 1,1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 60.3 | | ug/Kg | | 121 | 60 - 140 | 15 | 20 |
| 1,1,2-Trichloroethane | 50.0 | 51.5 | | ug/Kg | | 103 | 70 - 130 | 5 | 20 |
| 1,1-Dichloroethane | 50.0 | 49.6 | | ug/Kg | | 99 | 70 - 130 | 1 | 20 |
| 1,1-Dichloroethene | 50.0 | 55.4 | | ug/Kg | | 111 | 74 - 122 | 8 | 20 |
| 1,1-Dichloropropene | 50.0 | 51.7 | | ug/Kg | | 103 | 70 - 130 | 1 | 20 |
| 1,2,3-Trichlorobenzene | 50.0 | 56.0 | | ug/Kg | | 112 | 60 - 140 | 0 | 20 |
| 1,2,3-Trichloropropane | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 146 | 11 | 20 |
| 1,2,4-Trichlorobenzene | 50.0 | 57.4 | | ug/Kg | | 115 | 60 - 140 | 1 | 20 |
| 1,2,4-Trimethylbenzene | 50.0 | 53.4 | | ug/Kg | | 107 | 70 - 130 | 2 | 20 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 52.0 | | ug/Kg | | 104 | 60 - 145 | 10 | 20 |
| 1,2-Dichlorobenzene | 50.0 | 52.7 | | ug/Kg | | 105 | 70 - 130 | 0 | 20 |
| 1,2-Dichloroethane | 50.0 | 51.3 | | ug/Kg | | 103 | 70 - 130 | 7 | 20 |
| 1,2-Dichloropropane | 50.0 | 52.3 | | ug/Kg | | 105 | 73 - 127 | 2 | 20 |
| 1,3,5-Trimethylbenzene | 50.0 | 53.4 | | ug/Kg | | 107 | 70 - 131 | 2 | 20 |
| 1,3-Dichlorobenzene | 50.0 | 52.1 | | ug/Kg | | 104 | 70 - 131 | 2 | 20 |
| 1,3-Dichloropropane | 50.0 | 51.3 | | ug/Kg | | 103 | 70 - 140 | 7 | 20 |
| 1,4-Dichlorobenzene | 50.0 | 51.6 | | ug/Kg | | 103 | 70 - 130 | 2 | 20 |
| 2,2-Dichloropropane | 50.0 | 55.2 | | ug/Kg | | 110 | 70 - 162 | 5 | 20 |
| 2-Butanone (MEK) | 250 | 213 | | ug/Kg | | 85 | 53 - 133 | 12 | 20 |
| 2-Chlorotoluene | 50.0 | 51.2 | | ug/Kg | | 102 | 70 - 138 | 1 | 20 |
| 2-Hexanone | 250 | 211 | | ug/Kg | | 84 | 44 - 133 | 18 | 20 |
| 4-Chlorotoluene | 50.0 | 51.9 | | ug/Kg | | 104 | 70 - 136 | 1 | 20 |
| 4-Isopropyltoluene | 50.0 | 51.7 | | ug/Kg | | 103 | 70 - 133 | 3 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 211 | | ug/Kg | | 85 | 60 - 160 | 17 | 20 |
| Acetone | 250 | 180 | | ug/Kg | | 72 | 30 - 162 | 18 | 30 |
| Benzene | 50.0 | 50.2 | | ug/Kg | | 100 | 70 - 130 | 1 | 20 |
| Bromobenzene | 50.0 | 54.0 | | ug/Kg | | 108 | 70 - 130 | 0 | 20 |
| Bromoform | 50.0 | 60.6 | | ug/Kg | | 121 | 59 - 158 | 3 | 20 |
| Bromomethane | 50.0 | 45.1 | | ug/Kg | | 90 | 59 - 132 | 8 | 20 |
| Carbon disulfide | 50.0 | 57.7 | | ug/Kg | | 115 | 60 - 140 | 6 | 20 |
| Carbon tetrachloride | 50.0 | 57.4 | | ug/Kg | | 115 | 70 - 142 | 3 | 20 |
| Chlorobenzene | 50.0 | 51.9 | | ug/Kg | | 104 | 70 - 130 | 1 | 20 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-211563/6
Matrix: Solid
Analysis Batch: 211563

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chlorobromomethane | 50.0 | 53.5 | | ug/Kg | | 107 | 70 - 130 | 2 | 20 |
| Chlorodibromomethane | 50.0 | 56.0 | | ug/Kg | | 112 | 70 - 146 | 4 | 20 |
| Chloroethane | 50.0 | 44.2 | | ug/Kg | | 88 | 65 - 130 | 6 | 20 |
| Chloroform | 50.0 | 53.5 | | ug/Kg | | 107 | 77 - 127 | 0 | 20 |
| Chloromethane | 50.0 | 41.1 | | ug/Kg | | 82 | 55 - 140 | 2 | 20 |
| cis-1,2-Dichloroethene | 50.0 | 51.0 | | ug/Kg | | 102 | 70 - 138 | 2 | 20 |
| cis-1,3-Dichloropropene | 50.0 | 54.9 | | ug/Kg | | 110 | 68 - 147 | 3 | 20 |
| Dibromomethane | 50.0 | 52.5 | | ug/Kg | | 105 | 70 - 139 | 5 | 20 |
| Dichlorobromomethane | 50.0 | 54.5 | | ug/Kg | | 109 | 70 - 140 | 3 | 20 |
| Dichlorodifluoromethane | 50.0 | 38.3 | | ug/Kg | | 77 | 37 - 158 | 2 | 20 |
| Ethylbenzene | 50.0 | 52.0 | | ug/Kg | | 104 | 80 - 137 | 2 | 20 |
| Ethylene Dibromide | 50.0 | 54.5 | | ug/Kg | | 109 | 70 - 140 | 6 | 20 |
| Hexachlorobutadiene | 50.0 | 58.0 | | ug/Kg | | 116 | 70 - 132 | 5 | 20 |
| Isopropylbenzene | 50.0 | 55.6 | | ug/Kg | | 111 | 70 - 130 | 3 | 20 |
| Methyl tert-butyl ether | 50.0 | 51.8 | | ug/Kg | | 104 | 70 - 144 | 4 | 20 |
| Methylene Chloride | 50.0 | 52.7 | | ug/Kg | | 105 | 70 - 134 | 4 | 20 |
| m-Xylene & p-Xylene | 50.0 | 53.9 | | ug/Kg | | 108 | 70 - 146 | 1 | 20 |
| Naphthalene | 50.0 | 53.5 | | ug/Kg | | 107 | 60 - 147 | 6 | 20 |
| n-Butylbenzene | 50.0 | 54.3 | | ug/Kg | | 109 | 70 - 142 | 2 | 20 |
| N-Propylbenzene | 50.0 | 52.0 | | ug/Kg | | 104 | 70 - 130 | 0 | 20 |
| o-Xylene | 50.0 | 52.8 | | ug/Kg | | 106 | 70 - 140 | 2 | 20 |
| sec-Butylbenzene | 50.0 | 52.0 | | ug/Kg | | 104 | 70 - 136 | 2 | 20 |
| Styrene | 50.0 | 56.7 | | ug/Kg | | 113 | 70 - 130 | 2 | 20 |
| tert-Butylbenzene | 50.0 | 52.2 | | ug/Kg | | 104 | 70 - 130 | 3 | 20 |
| Tetrachloroethene | 50.0 | 56.2 | | ug/Kg | | 112 | 70 - 132 | 4 | 20 |
| Toluene | 50.0 | 51.5 | | ug/Kg | | 103 | 75 - 120 | 2 | 20 |
| trans-1,2-Dichloroethene | 50.0 | 54.0 | | ug/Kg | | 108 | 67 - 130 | 6 | 20 |
| trans-1,3-Dichloropropene | 50.0 | 53.9 | | ug/Kg | | 108 | 70 - 155 | 5 | 20 |
| Trichloroethene | 50.0 | 54.4 | | ug/Kg | | 109 | 70 - 133 | 3 | 20 |
| Trichlorofluoromethane | 50.0 | 49.2 | | ug/Kg | | 98 | 60 - 140 | 4 | 20 |
| Vinyl acetate | 50.0 | 40.3 | | ug/Kg | | 81 | 38 - 176 | 10 | 20 |
| Vinyl chloride | 50.0 | 47.8 | | ug/Kg | | 96 | 58 - 125 | 7 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 60 - 140 |
| 4-Bromofluorobenzene | 101 | | 45 - 131 |
| Toluene-d8 (Surr) | 98 | | 58 - 140 |

Lab Sample ID: MB 720-211579/4
Matrix: Solid
Analysis Batch: 211579

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-211579/4
Matrix: Solid
Analysis Batch: 211579

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Bromomethane | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Chloroethane | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Chloromethane | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Dibromomethane | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Dichlorodifluoromethane | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Methylene Chloride | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Naphthalene | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-211579/4
Matrix: Solid
Analysis Batch: 211579

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Vinyl acetate | ND | | 20 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | | 10/20/16 08:47 | 1 |
| Xylenes, Total | ND | | 10 | | ug/Kg | | | 10/20/16 08:47 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 60 - 140 | | 10/20/16 08:47 | 1 |
| 4-Bromofluorobenzene | 84 | | 45 - 131 | | 10/20/16 08:47 | 1 |
| Toluene-d8 (Surr) | 98 | | 58 - 140 | | 10/20/16 08:47 | 1 |

Lab Sample ID: LCS 720-211579/5
Matrix: Solid
Analysis Batch: 211579

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,1,1,2-Tetrachloroethane | 50.0 | 57.9 | | ug/Kg | | 116 | 70 - 130 |
| 1,1,1-Trichloroethane | 50.0 | 59.5 | | ug/Kg | | 119 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 53.3 | | ug/Kg | | 107 | 70 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 55.3 | | ug/Kg | | 111 | 60 - 140 |
| 1,1,2-Trichloroethane | 50.0 | 55.1 | | ug/Kg | | 110 | 70 - 130 |
| 1,1-Dichloroethane | 50.0 | 49.4 | | ug/Kg | | 99 | 70 - 130 |
| 1,1-Dichloroethene | 50.0 | 50.6 | | ug/Kg | | 101 | 74 - 122 |
| 1,1-Dichloropropene | 50.0 | 52.8 | | ug/Kg | | 106 | 70 - 130 |
| 1,2,3-Trichlorobenzene | 50.0 | 53.1 | | ug/Kg | | 106 | 60 - 140 |
| 1,2,3-Trichloropropane | 50.0 | 51.7 | | ug/Kg | | 103 | 70 - 146 |
| 1,2,4-Trichlorobenzene | 50.0 | 52.9 | | ug/Kg | | 106 | 60 - 140 |
| 1,2,4-Trimethylbenzene | 50.0 | 55.4 | | ug/Kg | | 111 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 50.4 | | ug/Kg | | 101 | 60 - 145 |
| 1,2-Dichlorobenzene | 50.0 | 57.7 | | ug/Kg | | 115 | 70 - 130 |
| 1,2-Dichloroethane | 50.0 | 49.6 | | ug/Kg | | 99 | 70 - 130 |
| 1,2-Dichloropropane | 50.0 | 51.8 | | ug/Kg | | 104 | 73 - 127 |
| 1,3,5-Trimethylbenzene | 50.0 | 55.3 | | ug/Kg | | 111 | 70 - 131 |
| 1,3-Dichlorobenzene | 50.0 | 56.4 | | ug/Kg | | 113 | 70 - 131 |
| 1,3-Dichloropropane | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 140 |
| 1,4-Dichlorobenzene | 50.0 | 56.4 | | ug/Kg | | 113 | 70 - 130 |
| 2,2-Dichloropropane | 50.0 | 65.2 | | ug/Kg | | 130 | 70 - 162 |
| 2-Butanone (MEK) | 250 | 238 | | ug/Kg | | 95 | 53 - 133 |
| 2-Chlorotoluene | 50.0 | 54.4 | | ug/Kg | | 109 | 70 - 138 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211579/5

Matrix: Solid

Analysis Batch: 211579

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 2-Hexanone | 250 | 207 | | ug/Kg | | 83 | 44 - 133 |
| 4-Chlorotoluene | 50.0 | 55.1 | | ug/Kg | | 110 | 70 - 136 |
| 4-Isopropyltoluene | 50.0 | 56.9 | | ug/Kg | | 114 | 70 - 133 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 217 | | ug/Kg | | 87 | 60 - 160 |
| Acetone | 250 | 235 | | ug/Kg | | 94 | 30 - 162 |
| Benzene | 50.0 | 55.1 | | ug/Kg | | 110 | 70 - 130 |
| Bromobenzene | 50.0 | 52.3 | | ug/Kg | | 105 | 70 - 130 |
| Bromoform | 50.0 | 62.0 | | ug/Kg | | 124 | 59 - 158 |
| Bromomethane | 50.0 | 48.6 | | ug/Kg | | 97 | 59 - 132 |
| Carbon disulfide | 50.0 | 56.4 | | ug/Kg | | 113 | 60 - 140 |
| Carbon tetrachloride | 50.0 | 63.9 | | ug/Kg | | 128 | 70 - 142 |
| Chlorobenzene | 50.0 | 54.8 | | ug/Kg | | 110 | 70 - 130 |
| Chlorobromomethane | 50.0 | 54.1 | | ug/Kg | | 108 | 70 - 130 |
| Chlorodibromomethane | 50.0 | 57.4 | | ug/Kg | | 115 | 70 - 146 |
| Chloroethane | 50.0 | 45.9 | | ug/Kg | | 92 | 65 - 130 |
| Chloroform | 50.0 | 55.6 | | ug/Kg | | 111 | 77 - 127 |
| Chloromethane | 50.0 | 37.6 | | ug/Kg | | 75 | 55 - 140 |
| cis-1,2-Dichloroethene | 50.0 | 50.0 | | ug/Kg | | 100 | 70 - 138 |
| cis-1,3-Dichloropropene | 50.0 | 57.0 | | ug/Kg | | 114 | 68 - 147 |
| Dibromomethane | 50.0 | 54.7 | | ug/Kg | | 109 | 70 - 139 |
| Dichlorobromomethane | 50.0 | 56.7 | | ug/Kg | | 113 | 70 - 140 |
| Dichlorodifluoromethane | 50.0 | 47.1 | | ug/Kg | | 94 | 37 - 158 |
| Ethylbenzene | 50.0 | 54.5 | | ug/Kg | | 109 | 80 - 137 |
| Ethylene Dibromide | 50.0 | 55.0 | | ug/Kg | | 110 | 70 - 140 |
| Hexachlorobutadiene | 50.0 | 54.4 | | ug/Kg | | 109 | 70 - 132 |
| Isopropylbenzene | 50.0 | 53.9 | | ug/Kg | | 108 | 70 - 130 |
| Methyl tert-butyl ether | 50.0 | 46.4 | | ug/Kg | | 93 | 70 - 144 |
| Methylene Chloride | 50.0 | 51.3 | | ug/Kg | | 103 | 70 - 134 |
| m-Xylene & p-Xylene | 50.0 | 53.3 | | ug/Kg | | 107 | 70 - 146 |
| Naphthalene | 50.0 | 54.4 | | ug/Kg | | 109 | 60 - 147 |
| n-Butylbenzene | 50.0 | 57.3 | | ug/Kg | | 115 | 70 - 142 |
| N-Propylbenzene | 50.0 | 55.5 | | ug/Kg | | 111 | 70 - 130 |
| o-Xylene | 50.0 | 55.2 | | ug/Kg | | 110 | 70 - 140 |
| sec-Butylbenzene | 50.0 | 54.3 | | ug/Kg | | 109 | 70 - 136 |
| Styrene | 50.0 | 49.4 | | ug/Kg | | 99 | 70 - 130 |
| tert-Butylbenzene | 50.0 | 56.5 | | ug/Kg | | 113 | 70 - 130 |
| Tetrachloroethene | 50.0 | 57.7 | | ug/Kg | | 115 | 70 - 132 |
| Toluene | 50.0 | 54.7 | | ug/Kg | | 109 | 75 - 120 |
| trans-1,2-Dichloroethene | 50.0 | 52.8 | | ug/Kg | | 106 | 67 - 130 |
| trans-1,3-Dichloropropene | 50.0 | 51.6 | | ug/Kg | | 103 | 70 - 155 |
| Trichloroethene | 50.0 | 56.6 | | ug/Kg | | 113 | 70 - 133 |
| Trichlorofluoromethane | 50.0 | 48.8 | | ug/Kg | | 98 | 60 - 140 |
| Vinyl acetate | 50.0 | 41.5 | | ug/Kg | | 83 | 38 - 176 |
| Vinyl chloride | 50.0 | 44.2 | | ug/Kg | | 88 | 58 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 60 - 140 |
| 4-Bromofluorobenzene | 95 | | 45 - 131 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211579/5
Matrix: Solid
Analysis Batch: 211579

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

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|-------------------|------------------|------------------|----------|
| Toluene-d8 (Surr) | 104 | | 58 - 140 |

Lab Sample ID: LCSD 720-211579/6
Matrix: Solid
Analysis Batch: 211579

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| 1,1,1,2-Tetrachloroethane | 50.0 | 58.1 | | ug/Kg | | 116 | 70 - 130 | 0 | 20 |
| 1,1,1-Trichloroethane | 50.0 | 59.6 | | ug/Kg | | 119 | 70 - 130 | 0 | 20 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 57.6 | | ug/Kg | | 115 | 70 - 146 | 8 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 53.9 | | ug/Kg | | 108 | 60 - 140 | 2 | 20 |
| 1,1,2-Trichloroethane | 50.0 | 58.2 | | ug/Kg | | 116 | 70 - 130 | 5 | 20 |
| 1,1-Dichloroethane | 50.0 | 50.2 | | ug/Kg | | 100 | 70 - 130 | 2 | 20 |
| 1,1-Dichloroethene | 50.0 | 50.7 | | ug/Kg | | 101 | 74 - 122 | 0 | 20 |
| 1,1-Dichloropropene | 50.0 | 52.7 | | ug/Kg | | 105 | 70 - 130 | 0 | 20 |
| 1,2,3-Trichlorobenzene | 50.0 | 53.9 | | ug/Kg | | 108 | 60 - 140 | 1 | 20 |
| 1,2,3-Trichloropropane | 50.0 | 57.3 | | ug/Kg | | 115 | 70 - 146 | 10 | 20 |
| 1,2,4-Trichlorobenzene | 50.0 | 52.9 | | ug/Kg | | 106 | 60 - 140 | 0 | 20 |
| 1,2,4-Trimethylbenzene | 50.0 | 54.5 | | ug/Kg | | 109 | 70 - 130 | 2 | 20 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 54.8 | | ug/Kg | | 110 | 60 - 145 | 8 | 20 |
| 1,2-Dichlorobenzene | 50.0 | 57.6 | | ug/Kg | | 115 | 70 - 130 | 0 | 20 |
| 1,2-Dichloroethane | 50.0 | 51.4 | | ug/Kg | | 103 | 70 - 130 | 4 | 20 |
| 1,2-Dichloropropane | 50.0 | 52.3 | | ug/Kg | | 105 | 73 - 127 | 1 | 20 |
| 1,3,5-Trimethylbenzene | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 131 | 3 | 20 |
| 1,3-Dichlorobenzene | 50.0 | 55.9 | | ug/Kg | | 112 | 70 - 131 | 1 | 20 |
| 1,3-Dichloropropane | 50.0 | 56.4 | | ug/Kg | | 113 | 70 - 140 | 5 | 20 |
| 1,4-Dichlorobenzene | 50.0 | 55.8 | | ug/Kg | | 112 | 70 - 130 | 1 | 20 |
| 2,2-Dichloropropane | 50.0 | 56.7 | | ug/Kg | | 113 | 70 - 162 | 14 | 20 |
| 2-Butanone (MEK) | 250 | 271 | | ug/Kg | | 108 | 53 - 133 | 13 | 20 |
| 2-Chlorotoluene | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 138 | 1 | 20 |
| 2-Hexanone | 250 | 251 | | ug/Kg | | 100 | 44 - 133 | 19 | 20 |
| 4-Chlorotoluene | 50.0 | 54.6 | | ug/Kg | | 109 | 70 - 136 | 1 | 20 |
| 4-Isopropyltoluene | 50.0 | 55.7 | | ug/Kg | | 111 | 70 - 133 | 2 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 256 | | ug/Kg | | 102 | 60 - 160 | 16 | 20 |
| Acetone | 250 | 277 | | ug/Kg | | 111 | 30 - 162 | 16 | 30 |
| Benzene | 50.0 | 54.4 | | ug/Kg | | 109 | 70 - 130 | 1 | 20 |
| Bromobenzene | 50.0 | 52.0 | | ug/Kg | | 104 | 70 - 130 | 1 | 20 |
| Bromoform | 50.0 | 66.1 | | ug/Kg | | 132 | 59 - 158 | 7 | 20 |
| Bromomethane | 50.0 | 47.8 | | ug/Kg | | 96 | 59 - 132 | 2 | 20 |
| Carbon disulfide | 50.0 | 55.9 | | ug/Kg | | 112 | 60 - 140 | 1 | 20 |
| Carbon tetrachloride | 50.0 | 63.8 | | ug/Kg | | 128 | 70 - 142 | 0 | 20 |
| Chlorobenzene | 50.0 | 54.4 | | ug/Kg | | 109 | 70 - 130 | 1 | 20 |
| Chlorobromomethane | 50.0 | 55.5 | | ug/Kg | | 111 | 70 - 130 | 3 | 20 |
| Chlorodibromomethane | 50.0 | 61.0 | | ug/Kg | | 122 | 70 - 146 | 6 | 20 |
| Chloroethane | 50.0 | 45.0 | | ug/Kg | | 90 | 65 - 130 | 2 | 20 |
| Chloroform | 50.0 | 55.0 | | ug/Kg | | 110 | 77 - 127 | 1 | 20 |
| Chloromethane | 50.0 | 37.0 | | ug/Kg | | 74 | 55 - 140 | 2 | 20 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75232-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-211579/6

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 211579

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| cis-1,2-Dichloroethene | 50.0 | 50.8 | | ug/Kg | | 102 | 70 - 138 | 2 | 20 |
| cis-1,3-Dichloropropene | 50.0 | 58.5 | | ug/Kg | | 117 | 68 - 147 | 3 | 20 |
| Dibromomethane | 50.0 | 58.5 | | ug/Kg | | 117 | 70 - 139 | 7 | 20 |
| Dichlorobromomethane | 50.0 | 58.9 | | ug/Kg | | 118 | 70 - 140 | 4 | 20 |
| Dichlorodifluoromethane | 50.0 | 46.1 | | ug/Kg | | 92 | 37 - 158 | 2 | 20 |
| Ethylbenzene | 50.0 | 53.8 | | ug/Kg | | 108 | 80 - 137 | 1 | 20 |
| Ethylene Dibromide | 50.0 | 58.9 | | ug/Kg | | 118 | 70 - 140 | 7 | 20 |
| Hexachlorobutadiene | 50.0 | 52.4 | | ug/Kg | | 105 | 70 - 132 | 4 | 20 |
| Isopropylbenzene | 50.0 | 53.0 | | ug/Kg | | 106 | 70 - 130 | 2 | 20 |
| Methyl tert-butyl ether | 50.0 | 50.9 | | ug/Kg | | 102 | 70 - 144 | 9 | 20 |
| Methylene Chloride | 50.0 | 51.3 | | ug/Kg | | 103 | 70 - 134 | 0 | 20 |
| m-Xylene & p-Xylene | 50.0 | 52.9 | | ug/Kg | | 106 | 70 - 146 | 1 | 20 |
| Naphthalene | 50.0 | 58.4 | | ug/Kg | | 117 | 60 - 147 | 7 | 20 |
| n-Butylbenzene | 50.0 | 55.5 | | ug/Kg | | 111 | 70 - 142 | 3 | 20 |
| N-Propylbenzene | 50.0 | 54.6 | | ug/Kg | | 109 | 70 - 130 | 2 | 20 |
| o-Xylene | 50.0 | 54.7 | | ug/Kg | | 109 | 70 - 140 | 1 | 20 |
| sec-Butylbenzene | 50.0 | 53.2 | | ug/Kg | | 106 | 70 - 136 | 2 | 20 |
| Styrene | 50.0 | 49.1 | | ug/Kg | | 98 | 70 - 130 | 1 | 20 |
| tert-Butylbenzene | 50.0 | 54.9 | | ug/Kg | | 110 | 70 - 130 | 3 | 20 |
| Tetrachloroethene | 50.0 | 57.2 | | ug/Kg | | 114 | 70 - 132 | 1 | 20 |
| Toluene | 50.0 | 53.6 | | ug/Kg | | 107 | 75 - 120 | 2 | 20 |
| trans-1,2-Dichloroethene | 50.0 | 53.9 | | ug/Kg | | 108 | 67 - 130 | 2 | 20 |
| trans-1,3-Dichloropropene | 50.0 | 54.3 | | ug/Kg | | 109 | 70 - 155 | 5 | 20 |
| Trichloroethene | 50.0 | 57.1 | | ug/Kg | | 114 | 70 - 133 | 1 | 20 |
| Trichlorofluoromethane | 50.0 | 49.2 | | ug/Kg | | 98 | 60 - 140 | 1 | 20 |
| Vinyl acetate | 50.0 | 45.2 | | ug/Kg | | 90 | 38 - 176 | 8 | 20 |
| Vinyl chloride | 50.0 | 43.4 | | ug/Kg | | 87 | 58 - 125 | 2 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 60 - 140 |
| 4-Bromofluorobenzene | 95 | | 45 - 131 |
| Toluene-d8 (Surr) | 104 | | 58 - 140 |

QC Association Summary

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

TestAmerica Job ID: 720-75232-1

GC/MS VOA

Prep Batch: 211515

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 720-75232-1 | PSV5-5-5.5 | Total/NA | Solid | 5035 | |

Analysis Batch: 211563

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 720-75232-1 | PSV5-5-5.5 | Total/NA | Solid | 8260B | 211515 |
| MB 720-211563/4 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 720-211563/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 720-211563/6 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

Analysis Batch: 211579

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 720-75232-2 | PSV5-9.75-10.25 | Total/NA | Solid | 8260B | 211590 |
| MB 720-211579/4 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 720-211579/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 720-211579/6 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

Prep Batch: 211590

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 720-75232-2 | PSV5-9.75-10.25 | Total/NA | Solid | 5035 | |

Lab Chronicle

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

TestAmerica Job ID: 720-75232-1

Client Sample ID: PSV5-5-5.5

Date Collected: 10/19/16 01:10

Date Received: 10/19/16 11:35

Lab Sample ID: 720-75232-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211515 | 10/19/16 17:45 | JRM | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211563 | 10/19/16 23:32 | JRM | TAL PLS |

Client Sample ID: PSV5-9.75-10.25

Date Collected: 10/19/16 01:30

Date Received: 10/19/16 11:35

Lab Sample ID: 720-75232-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211590 | 10/19/16 17:45 | JRM | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211579 | 10/20/16 11:13 | JRM | TAL PLS |

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 720-75232-1

Laboratory: TestAmerica Pleasanton

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

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|------------|---------------|------------|------------------|-----------------|
| California | State Program | 9 | 2496 | 01-31-18 |

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | 4040 | 01-29-17 |

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Method Summary

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

TestAmerica Job ID: 720-75232-1

| Method | Method Description | Protocol | Laboratory |
|--------|------------------------------------|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PLS |

Protocol References:

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 720-75232-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 720-75232-1 | PSV5-5-5.5 | Solid | 10/19/16 01:10 | 10/19/16 11:35 |
| 720-75232-2 | PSV5-9.75-10.25 | Solid | 10/19/16 01:30 | 10/19/16 11:35 |

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Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-75232-1

Login Number: 75232

List Number: 1

Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (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

ANALYTICAL REPORT

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

TestAmerica Job ID: 720-75272-1

Client Project/Site: 6701 Shellmound St, Emeryville Water

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

Attn: Mr. Kyle Flory



Authorized for release by:
10/24/2016 3:34:13 PM
Aurora Contreras, Project Management Assistant I
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Designee for
Beth Riley, Project Manager II
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LINKS

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Visit us at:
www.testamericainc.com

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 Water

TestAmerica Job ID: 720-75272-1

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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) |

Case Narrative

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

TestAmerica Job ID: 720-75272-1

Job ID: 720-75272-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-75272-1

Comments

No additional comments.

Receipt

The sample was received on 10/20/2016 10:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3° C.

GC/MS VOA

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

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Detection Summary

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

TestAmerica Job ID: 720-75272-1

Client Sample ID: PGW2-GW

Lab Sample ID: 720-75272-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|------|-----|------|---------|---|--------|-----------|
| Benzene | 2.4 | | 0.50 | | ug/L | 1 | | 8260B | Total/NA |
| n-Butylbenzene | 2.4 | | 1.0 | | ug/L | 1 | | 8260B | Total/NA |
| sec-Butylbenzene | 7.1 | | 1.0 | | ug/L | 1 | | 8260B | Total/NA |
| Ethylbenzene | 4.4 | | 0.50 | | ug/L | 1 | | 8260B | Total/NA |
| Isopropylbenzene | 14 | | 0.50 | | ug/L | 1 | | 8260B | Total/NA |
| 4-Isopropyltoluene | 3.7 | | 1.0 | | ug/L | 1 | | 8260B | Total/NA |
| Naphthalene | 12 | | 1.0 | | ug/L | 1 | | 8260B | Total/NA |
| N-Propylbenzene | 10 | | 1.0 | | ug/L | 1 | | 8260B | Total/NA |
| Toluene | 0.72 | | 0.50 | | ug/L | 1 | | 8260B | Total/NA |
| 1,2,4-Trimethylbenzene | 55 | | 0.50 | | ug/L | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 4.9 | | 0.50 | | ug/L | 1 | | 8260B | Total/NA |
| Xylenes, Total | 5.0 | | 1.0 | | ug/L | 1 | | 8260B | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

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

TestAmerica Job ID: 720-75272-1

Client Sample ID: PGW2-GW

Lab Sample ID: 720-75272-1

Date Collected: 10/20/16 05:30

Matrix: Water

Date Received: 10/20/16 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|------|-----|------|---|----------|----------------|---------|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Benzene | 2.4 | | 0.50 | | ug/L | | | 10/21/16 12:39 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 10/21/16 02:40 | 1 |
| n-Butylbenzene | 2.4 | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| sec-Butylbenzene | 7.1 | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,1-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Ethylbenzene | 4.4 | | 0.50 | | ug/L | | | 10/21/16 12:39 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Isopropylbenzene | 14 | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 4-Isopropyltoluene | 3.7 | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Naphthalene | 12 | | 1.0 | | ug/L | | | 10/21/16 12:39 | 1 |
| N-Propylbenzene | 10 | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |

TestAmerica Pleasanton

Client Sample Results

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

TestAmerica Job ID: 720-75272-1

Client Sample ID: PGW2-GW

Lab Sample ID: 720-75272-1

Date Collected: 10/20/16 05:30

Matrix: Water

Date Received: 10/20/16 10:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|------|-----|------|---|----------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Toluene | 0.72 | | 0.50 | | ug/L | | | 10/21/16 12:39 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,2,4-Trimethylbenzene | 55 | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| 1,3,5-Trimethylbenzene | 4.9 | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 10/21/16 02:40 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |
| Xylenes, Total | 5.0 | | 1.0 | | ug/L | | | 10/21/16 12:39 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/21/16 02:40 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 103 | | 67 - 130 | | 10/21/16 02:40 | 1 |
| 4-Bromofluorobenzene | 107 | | 67 - 130 | | 10/21/16 12:39 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 72 - 130 | | 10/21/16 02:40 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 72 - 130 | | 10/21/16 12:39 | 1 |
| Toluene-d8 (Surr) | 98 | | 70 - 130 | | 10/21/16 02:40 | 1 |
| Toluene-d8 (Surr) | 92 | | 70 - 130 | | 10/21/16 12:39 | 1 |

Surrogate Summary

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | BFB (67-130) | 12DCE (72-130) | TOL (70-130) |
|-------------------|------------------------|-----------------|-------------------|-----------------|
| 720-75220-A-2 MS | Matrix Spike | 95 | 90 | 95 |
| 720-75220-A-2 MSD | Matrix Spike Duplicate | 95 | 92 | 96 |
| 720-75248-A-1 MS | Matrix Spike | 97 | 98 | 94 |
| 720-75248-A-1 MSD | Matrix Spike Duplicate | 97 | 100 | 94 |
| 720-75272-1 | PGW2-GW | 103 | 93 | 98 |
| 720-75272-1 | PGW2-GW | 107 | 102 | 92 |
| LCS 720-211646/5 | Lab Control Sample | 96 | 89 | 96 |
| LCS 720-211675/5 | Lab Control Sample | 98 | 98 | 94 |
| LCSD 720-211646/6 | Lab Control Sample Dup | 97 | 90 | 97 |
| LCSD 720-211675/6 | Lab Control Sample Dup | 97 | 94 | 94 |
| MB 720-211646/4 | Method Blank | 90 | 93 | 94 |
| MB 720-211675/4 | Method Blank | 100 | 97 | 93 |

Surrogate Legend

BFB = 4-Bromofluorobenzene

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

TOL = Toluene-d8 (Surr)

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-211646/4

Matrix: Water

Analysis Batch: 211646

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| Methyl tert-butyl ether | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Acetone | ND | | 50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Benzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Dichlorobromomethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Bromobenzene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Chlorobromomethane | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Bromoform | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Bromomethane | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/L | | | 10/20/16 19:24 | 1 |
| n-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| sec-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| tert-Butylbenzene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Carbon tetrachloride | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Chlorobenzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Chloroethane | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Chloroform | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Chloromethane | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 2-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 4-Chlorotoluene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Chlorodibromomethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,3-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,4-Dichlorobenzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,3-Dichloropropane | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,1-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Ethylene Dibromide | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Dibromomethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Dichlorodifluoromethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,1-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,2-Dichloroethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,1-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| cis-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Hexachlorobutadiene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 2-Hexanone | ND | | 50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Isopropylbenzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 4-Isopropyltoluene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Methylene Chloride | ND | | 5.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| N-Propylbenzene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| Styrene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-211646/4
Matrix: Water
Analysis Batch: 211646

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|------|-----|------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Tetrachloroethene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,1,1-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Trichloroethene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,2,3-Trichloropropane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Vinyl acetate | ND | | 10 | | ug/L | | | 10/20/16 19:24 | 1 |
| Vinyl chloride | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 10/20/16 19:24 | 1 |
| 2,2-Dichloropropane | ND | | 0.50 | | ug/L | | | 10/20/16 19:24 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 4-Bromofluorobenzene | 90 | | 67 - 130 | | 10/20/16 19:24 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 72 - 130 | | 10/20/16 19:24 | 1 |
| Toluene-d8 (Surr) | 94 | | 70 - 130 | | 10/20/16 19:24 | 1 |

Lab Sample ID: LCS 720-211646/5
Matrix: Water
Analysis Batch: 211646

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|-------------|------------|---------------|------|---|------|--------------|
| Methyl tert-butyl ether | 25.0 | 27.6 | | ug/L | | 111 | 62 - 130 |
| Acetone | 125 | 158 | | ug/L | | 126 | 26 - 180 |
| Benzene | 25.0 | 28.9 | | ug/L | | 116 | 79 - 130 |
| Dichlorobromomethane | 25.0 | 28.1 | | ug/L | | 112 | 70 - 130 |
| Bromobenzene | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 |
| Chlorobromomethane | 25.0 | 26.4 | | ug/L | | 106 | 70 - 130 |
| Bromoform | 25.0 | 29.4 | | ug/L | | 117 | 68 - 136 |
| Bromomethane | 25.0 | 21.7 | | ug/L | | 87 | 43 - 151 |
| 2-Butanone (MEK) | 125 | 132 | | ug/L | | 106 | 54 - 153 |
| n-Butylbenzene | 25.0 | 29.2 | | ug/L | | 117 | 70 - 142 |
| sec-Butylbenzene | 25.0 | 29.2 | | ug/L | | 117 | 70 - 134 |
| tert-Butylbenzene | 25.0 | 28.4 | | ug/L | | 114 | 70 - 135 |
| Carbon disulfide | 25.0 | 33.0 | | ug/L | | 132 | 68 - 146 |
| Carbon tetrachloride | 25.0 | 28.3 | | ug/L | | 113 | 70 - 146 |
| Chlorobenzene | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 |
| Chloroethane | 25.0 | 23.1 | | ug/L | | 92 | 62 - 138 |
| Chloroform | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 |
| Chloromethane | 25.0 | 22.3 | | ug/L | | 89 | 52 - 175 |
| 2-Chlorotoluene | 25.0 | 28.9 | | ug/L | | 116 | 70 - 130 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211646/5

Matrix: Water

Analysis Batch: 211646

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|------|---|------|--------------|
| 4-Chlorotoluene | 25.0 | 29.4 | | ug/L | | 118 | 70 - 130 |
| Chlorodibromomethane | 25.0 | 26.2 | | ug/L | | 105 | 70 - 145 |
| 1,2-Dichlorobenzene | 25.0 | 26.7 | | ug/L | | 107 | 70 - 130 |
| 1,3-Dichlorobenzene | 25.0 | 27.1 | | ug/L | | 109 | 70 - 130 |
| 1,4-Dichlorobenzene | 25.0 | 26.8 | | ug/L | | 107 | 70 - 130 |
| 1,3-Dichloropropane | 25.0 | 27.8 | | ug/L | | 111 | 70 - 130 |
| 1,1-Dichloropropene | 25.0 | 28.6 | | ug/L | | 114 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.6 | | ug/L | | 102 | 70 - 136 |
| Ethylene Dibromide | 25.0 | 28.4 | | ug/L | | 114 | 70 - 130 |
| Dibromomethane | 25.0 | 27.7 | | ug/L | | 111 | 70 - 130 |
| Dichlorodifluoromethane | 25.0 | 17.9 | | ug/L | | 72 | 32 - 158 |
| 1,1-Dichloroethane | 25.0 | 28.7 | | ug/L | | 115 | 70 - 130 |
| 1,2-Dichloroethane | 25.0 | 26.3 | | ug/L | | 105 | 61 - 132 |
| 1,1-Dichloroethene | 25.0 | 27.6 | | ug/L | | 110 | 64 - 128 |
| cis-1,2-Dichloroethene | 25.0 | 27.8 | | ug/L | | 111 | 70 - 130 |
| trans-1,2-Dichloroethene | 25.0 | 28.8 | | ug/L | | 115 | 68 - 130 |
| 1,2-Dichloropropane | 25.0 | 30.1 | | ug/L | | 120 | 70 - 130 |
| cis-1,3-Dichloropropene | 25.0 | 27.7 | | ug/L | | 111 | 70 - 130 |
| trans-1,3-Dichloropropene | 25.0 | 26.3 | | ug/L | | 105 | 70 - 140 |
| Ethylbenzene | 25.0 | 28.6 | | ug/L | | 114 | 80 - 120 |
| Hexachlorobutadiene | 25.0 | 26.1 | | ug/L | | 104 | 70 - 130 |
| 2-Hexanone | 125 | 135 | | ug/L | | 108 | 60 - 164 |
| Isopropylbenzene | 25.0 | 28.8 | | ug/L | | 115 | 70 - 130 |
| 4-Isopropyltoluene | 25.0 | 28.5 | | ug/L | | 114 | 70 - 130 |
| Methylene Chloride | 25.0 | 28.1 | | ug/L | | 112 | 70 - 147 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 136 | | ug/L | | 109 | 50 - 155 |
| Naphthalene | 25.0 | 26.9 | | ug/L | | 108 | 50 - 130 |
| N-Propylbenzene | 25.0 | 29.7 | | ug/L | | 119 | 70 - 130 |
| Styrene | 25.0 | 25.8 | | ug/L | | 103 | 70 - 130 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 26.6 | | ug/L | | 106 | 70 - 130 |
| 1,1,1,2,2-Tetrachloroethane | 25.0 | 29.2 | | ug/L | | 117 | 70 - 130 |
| Tetrachloroethene | 25.0 | 27.1 | | ug/L | | 108 | 70 - 130 |
| Toluene | 25.0 | 29.0 | | ug/L | | 116 | 78 - 120 |
| 1,2,3-Trichlorobenzene | 25.0 | 26.0 | | ug/L | | 104 | 70 - 130 |
| 1,2,4-Trichlorobenzene | 25.0 | 27.2 | | ug/L | | 109 | 70 - 130 |
| 1,1,1-Trichloroethane | 25.0 | 28.2 | | ug/L | | 113 | 70 - 130 |
| 1,1,2-Trichloroethane | 25.0 | 28.6 | | ug/L | | 114 | 70 - 130 |
| Trichloroethene | 25.0 | 27.1 | | ug/L | | 109 | 70 - 130 |
| Trichlorofluoromethane | 25.0 | 24.3 | | ug/L | | 97 | 66 - 132 |
| 1,2,3-Trichloropropane | 25.0 | 29.8 | | ug/L | | 119 | 70 - 130 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 27.6 | | ug/L | | 110 | 42 - 162 |
| 1,2,4-Trimethylbenzene | 25.0 | 28.7 | | ug/L | | 115 | 70 - 132 |
| 1,3,5-Trimethylbenzene | 25.0 | 29.1 | | ug/L | | 116 | 70 - 130 |
| Vinyl acetate | 25.0 | 27.3 | | ug/L | | 109 | 43 - 163 |
| Vinyl chloride | 25.0 | 22.1 | | ug/L | | 89 | 54 - 135 |
| m-Xylene & p-Xylene | 25.0 | 27.9 | | ug/L | | 111 | 70 - 142 |
| o-Xylene | 25.0 | 28.1 | | ug/L | | 112 | 70 - 130 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211646/5
Matrix: Water
Analysis Batch: 211646

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|------|---|------|--------------|
| 2,2-Dichloropropane | 25.0 | 30.2 | | ug/L | | 121 | 70 - 140 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene | 96 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 72 - 130 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 |

Lab Sample ID: LCSD 720-211646/6
Matrix: Water
Analysis Batch: 211646

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| Methyl tert-butyl ether | 25.0 | 27.8 | | ug/L | | 111 | 62 - 130 | 1 | 20 |
| Acetone | 125 | 150 | | ug/L | | 120 | 26 - 180 | 5 | 30 |
| Benzene | 25.0 | 28.8 | | ug/L | | 115 | 79 - 130 | 0 | 20 |
| Dichlorobromomethane | 25.0 | 28.2 | | ug/L | | 113 | 70 - 130 | 0 | 20 |
| Bromobenzene | 25.0 | 27.1 | | ug/L | | 108 | 70 - 130 | 0 | 20 |
| Chlorobromomethane | 25.0 | 26.6 | | ug/L | | 107 | 70 - 130 | 1 | 20 |
| Bromoform | 25.0 | 29.5 | | ug/L | | 118 | 68 - 136 | 1 | 20 |
| Bromomethane | 25.0 | 21.9 | | ug/L | | 88 | 43 - 151 | 1 | 20 |
| 2-Butanone (MEK) | 125 | 127 | | ug/L | | 102 | 54 - 153 | 3 | 20 |
| n-Butylbenzene | 25.0 | 28.5 | | ug/L | | 114 | 70 - 142 | 3 | 20 |
| sec-Butylbenzene | 25.0 | 28.7 | | ug/L | | 115 | 70 - 134 | 2 | 20 |
| tert-Butylbenzene | 25.0 | 28.3 | | ug/L | | 113 | 70 - 135 | 0 | 20 |
| Carbon disulfide | 25.0 | 32.9 | | ug/L | | 132 | 68 - 146 | 0 | 20 |
| Carbon tetrachloride | 25.0 | 28.0 | | ug/L | | 112 | 70 - 146 | 1 | 20 |
| Chlorobenzene | 25.0 | 26.4 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| Chloroethane | 25.0 | 23.3 | | ug/L | | 93 | 62 - 138 | 1 | 20 |
| Chloroform | 25.0 | 27.5 | | ug/L | | 110 | 70 - 130 | 0 | 20 |
| Chloromethane | 25.0 | 22.5 | | ug/L | | 90 | 52 - 175 | 1 | 20 |
| 2-Chlorotoluene | 25.0 | 28.8 | | ug/L | | 115 | 70 - 130 | 0 | 20 |
| 4-Chlorotoluene | 25.0 | 29.7 | | ug/L | | 119 | 70 - 130 | 1 | 20 |
| Chlorodibromomethane | 25.0 | 26.3 | | ug/L | | 105 | 70 - 145 | 0 | 20 |
| 1,2-Dichlorobenzene | 25.0 | 26.7 | | ug/L | | 107 | 70 - 130 | 0 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 26.9 | | ug/L | | 108 | 70 - 130 | 1 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 26.6 | | ug/L | | 107 | 70 - 130 | 1 | 20 |
| 1,3-Dichloropropane | 25.0 | 27.8 | | ug/L | | 111 | 70 - 130 | 0 | 20 |
| 1,1-Dichloropropene | 25.0 | 28.2 | | ug/L | | 113 | 70 - 130 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 25.2 | | ug/L | | 101 | 70 - 136 | 2 | 20 |
| Ethylene Dibromide | 25.0 | 28.4 | | ug/L | | 114 | 70 - 130 | 0 | 20 |
| Dibromomethane | 25.0 | 27.3 | | ug/L | | 109 | 70 - 130 | 1 | 20 |
| Dichlorodifluoromethane | 25.0 | 17.3 | | ug/L | | 69 | 32 - 158 | 4 | 20 |
| 1,1-Dichloroethane | 25.0 | 28.7 | | ug/L | | 115 | 70 - 130 | 0 | 20 |
| 1,2-Dichloroethane | 25.0 | 26.4 | | ug/L | | 105 | 61 - 132 | 0 | 20 |
| 1,1-Dichloroethene | 25.0 | 27.7 | | ug/L | | 111 | 64 - 128 | 0 | 20 |
| cis-1,2-Dichloroethene | 25.0 | 27.7 | | ug/L | | 111 | 70 - 130 | 1 | 20 |
| trans-1,2-Dichloroethene | 25.0 | 28.5 | | ug/L | | 114 | 68 - 130 | 1 | 20 |
| 1,2-Dichloropropane | 25.0 | 30.3 | | ug/L | | 121 | 70 - 130 | 0 | 20 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-211646/6

Matrix: Water

Analysis Batch: 211646

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|------|---|------|--------------|-----|-----------|
| cis-1,3-Dichloropropene | 25.0 | 28.0 | | ug/L | | 112 | 70 - 130 | 1 | 20 |
| trans-1,3-Dichloropropene | 25.0 | 26.3 | | ug/L | | 105 | 70 - 140 | 0 | 20 |
| Ethylbenzene | 25.0 | 28.2 | | ug/L | | 113 | 80 - 120 | 1 | 20 |
| Hexachlorobutadiene | 25.0 | 25.7 | | ug/L | | 103 | 70 - 130 | 1 | 20 |
| 2-Hexanone | 125 | 131 | | ug/L | | 105 | 60 - 164 | 3 | 20 |
| Isopropylbenzene | 25.0 | 28.5 | | ug/L | | 114 | 70 - 130 | 1 | 20 |
| 4-Isopropyltoluene | 25.0 | 28.0 | | ug/L | | 112 | 70 - 130 | 2 | 20 |
| Methylene Chloride | 25.0 | 28.4 | | ug/L | | 114 | 70 - 147 | 1 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 137 | | ug/L | | 110 | 50 - 155 | 0 | 20 |
| Naphthalene | 25.0 | 27.5 | | ug/L | | 110 | 50 - 130 | 2 | 20 |
| N-Propylbenzene | 25.0 | 29.3 | | ug/L | | 117 | 70 - 130 | 1 | 20 |
| Styrene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 130 | 1 | 20 |
| 1,1,1,2-Tetrachloroethane | 25.0 | 26.4 | | ug/L | | 106 | 70 - 130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 29.1 | | ug/L | | 116 | 70 - 130 | 0 | 20 |
| Tetrachloroethene | 25.0 | 26.6 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| Toluene | 25.0 | 28.6 | | ug/L | | 114 | 78 - 120 | 1 | 20 |
| 1,2,3-Trichlorobenzene | 25.0 | 26.4 | | ug/L | | 106 | 70 - 130 | 2 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 27.0 | | ug/L | | 108 | 70 - 130 | 1 | 20 |
| 1,1,1-Trichloroethane | 25.0 | 28.1 | | ug/L | | 113 | 70 - 130 | 0 | 20 |
| 1,1,2-Trichloroethane | 25.0 | 28.3 | | ug/L | | 113 | 70 - 130 | 1 | 20 |
| Trichloroethene | 25.0 | 27.0 | | ug/L | | 108 | 70 - 130 | 0 | 20 |
| Trichlorofluoromethane | 25.0 | 24.4 | | ug/L | | 97 | 66 - 132 | 0 | 20 |
| 1,2,3-Trichloropropane | 25.0 | 29.8 | | ug/L | | 119 | 70 - 130 | 0 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 27.3 | | ug/L | | 109 | 42 - 162 | 1 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 28.5 | | ug/L | | 114 | 70 - 132 | 1 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 28.8 | | ug/L | | 115 | 70 - 130 | 1 | 20 |
| Vinyl acetate | 25.0 | 28.1 | | ug/L | | 113 | 43 - 163 | 3 | 20 |
| Vinyl chloride | 25.0 | 22.4 | | ug/L | | 90 | 54 - 135 | 1 | 20 |
| m-Xylene & p-Xylene | 25.0 | 27.6 | | ug/L | | 110 | 70 - 142 | 1 | 20 |
| o-Xylene | 25.0 | 27.8 | | ug/L | | 111 | 70 - 130 | 1 | 20 |
| 2,2-Dichloropropane | 25.0 | 29.7 | | ug/L | | 119 | 70 - 140 | 2 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 4-Bromofluorobenzene | 97 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 72 - 130 |
| Toluene-d8 (Surr) | 97 | | 70 - 130 |

Lab Sample ID: 720-75220-A-2 MS

Matrix: Water

Analysis Batch: 211646

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Methyl tert-butyl ether | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 138 |
| Acetone | ND | | 125 | 121 | | ug/L | | 97 | 60 - 140 |
| Benzene | ND | | 25.0 | 28.3 | | ug/L | | 113 | 60 - 140 |
| Dichlorobromomethane | ND | | 25.0 | 28.2 | | ug/L | | 113 | 60 - 140 |
| Bromobenzene | ND | | 25.0 | 26.6 | | ug/L | | 106 | 60 - 140 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-75220-A-2 MS

Matrix: Water

Analysis Batch: 211646

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| Chlorobromomethane | ND | | 25.0 | 26.1 | | ug/L | | 104 | 60 - 140 |
| Bromoform | ND | | 25.0 | 28.7 | | ug/L | | 115 | 56 - 140 |
| Bromomethane | ND | | 25.0 | 18.9 | | ug/L | | 75 | 23 - 140 |
| 2-Butanone (MEK) | ND | | 125 | 118 | | ug/L | | 95 | 60 - 140 |
| n-Butylbenzene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 60 - 140 |
| sec-Butylbenzene | ND | | 25.0 | 27.8 | | ug/L | | 111 | 60 - 140 |
| tert-Butylbenzene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 60 - 140 |
| Carbon disulfide | ND | | 25.0 | 30.8 | | ug/L | | 123 | 38 - 140 |
| Carbon tetrachloride | ND | | 25.0 | 26.6 | | ug/L | | 106 | 60 - 140 |
| Chlorobenzene | ND | | 25.0 | 26.4 | | ug/L | | 106 | 60 - 140 |
| Chloroethane | ND | | 25.0 | 21.0 | | ug/L | | 84 | 51 - 140 |
| Chloroform | ND | | 25.0 | 27.0 | | ug/L | | 108 | 60 - 140 |
| Chloromethane | ND | | 25.0 | 18.9 | | ug/L | | 76 | 52 - 140 |
| 2-Chlorotoluene | ND | | 25.0 | 28.1 | | ug/L | | 112 | 60 - 140 |
| 4-Chlorotoluene | ND | | 25.0 | 28.9 | | ug/L | | 116 | 60 - 140 |
| Chlorodibromomethane | ND | | 25.0 | 26.1 | | ug/L | | 104 | 60 - 140 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 60 - 140 |
| 1,3-Dichlorobenzene | ND | | 25.0 | 26.4 | | ug/L | | 105 | 60 - 140 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 26.4 | | ug/L | | 106 | 60 - 140 |
| 1,3-Dichloropropane | ND | | 25.0 | 27.8 | | ug/L | | 111 | 60 - 140 |
| 1,1-Dichloropropene | ND | | 25.0 | 26.8 | | ug/L | | 107 | 60 - 140 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 24.3 | | ug/L | | 97 | 60 - 140 |
| Ethylene Dibromide | ND | | 25.0 | 27.9 | | ug/L | | 112 | 60 - 140 |
| Dibromomethane | ND | | 25.0 | 27.1 | | ug/L | | 108 | 60 - 140 |
| Dichlorodifluoromethane | ND | | 25.0 | 14.4 | | ug/L | | 58 | 38 - 140 |
| 1,1-Dichloroethane | ND | | 25.0 | 28.0 | | ug/L | | 111 | 60 - 140 |
| 1,2-Dichloroethane | ND | | 25.0 | 26.0 | | ug/L | | 104 | 60 - 140 |
| 1,1-Dichloroethene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 60 - 140 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 27.2 | | ug/L | | 108 | 60 - 140 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 140 |
| 1,2-Dichloropropane | ND | | 25.0 | 29.8 | | ug/L | | 119 | 60 - 140 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 27.2 | | ug/L | | 109 | 60 - 140 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 25.9 | | ug/L | | 103 | 60 - 140 |
| Ethylbenzene | ND | | 25.0 | 27.6 | | ug/L | | 110 | 60 - 140 |
| Hexachlorobutadiene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 140 |
| 2-Hexanone | ND | | 125 | 125 | | ug/L | | 100 | 60 - 140 |
| Isopropylbenzene | ND | | 25.0 | 27.7 | | ug/L | | 111 | 60 - 140 |
| 4-Isopropyltoluene | ND | | 25.0 | 27.1 | | ug/L | | 108 | 60 - 140 |
| Methylene Chloride | ND | | 25.0 | 26.9 | | ug/L | | 108 | 40 - 140 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 131 | | ug/L | | 105 | 58 - 130 |
| Naphthalene | ND | | 25.0 | 26.4 | | ug/L | | 105 | 56 - 140 |
| N-Propylbenzene | ND | | 25.0 | 28.4 | | ug/L | | 114 | 60 - 140 |
| Styrene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 140 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 |
| 1,1,2,2-Tetrachloroethane | ND | | 25.0 | 28.6 | | ug/L | | 114 | 60 - 140 |
| Tetrachloroethene | ND | | 25.0 | 25.4 | | ug/L | | 102 | 60 - 140 |
| Toluene | ND | | 25.0 | 28.1 | | ug/L | | 112 | 60 - 140 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 60 - 140 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-75220-A-2 MS

Matrix: Water

Analysis Batch: 211646

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 26.6 | | ug/L | | 107 | 60 - 140 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 26.9 | | ug/L | | 108 | 60 - 140 |
| 1,1,2-Trichloroethane | ND | | 25.0 | 28.2 | | ug/L | | 113 | 60 - 140 |
| Trichloroethene | ND | | 25.0 | 26.0 | | ug/L | | 104 | 60 - 140 |
| Trichlorofluoromethane | ND | | 25.0 | 21.9 | | ug/L | | 88 | 60 - 140 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 28.7 | | ug/L | | 115 | 60 - 140 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 25.0 | 25.7 | | ug/L | | 103 | 60 - 140 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 27.9 | | ug/L | | 112 | 60 - 140 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 28.0 | | ug/L | | 112 | 60 - 140 |
| Vinyl acetate | ND | | 25.0 | 25.4 | | ug/L | | 102 | 40 - 140 |
| Vinyl chloride | 3.7 | | 25.0 | 22.7 | | ug/L | | 76 | 58 - 140 |
| m-Xylene & p-Xylene | ND | | 25.0 | 26.9 | | ug/L | | 108 | 60 - 140 |
| o-Xylene | ND | | 25.0 | 27.6 | | ug/L | | 110 | 60 - 140 |
| 2,2-Dichloropropane | ND | | 25.0 | 27.8 | | ug/L | | 111 | 60 - 140 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene | 95 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 90 | | 72 - 130 |
| Toluene-d8 (Surr) | 95 | | 70 - 130 |

Lab Sample ID: 720-75220-A-2 MSD

Matrix: Water

Analysis Batch: 211646

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Methyl tert-butyl ether | ND | | 25.0 | 28.7 | | ug/L | | 115 | 60 - 138 | 5 | 20 |
| Acetone | ND | | 125 | 135 | | ug/L | | 108 | 60 - 140 | 11 | 20 |
| Benzene | ND | | 25.0 | 28.2 | | ug/L | | 113 | 60 - 140 | 0 | 20 |
| Dichlorobromomethane | ND | | 25.0 | 28.5 | | ug/L | | 114 | 60 - 140 | 1 | 20 |
| Bromobenzene | ND | | 25.0 | 26.4 | | ug/L | | 106 | 60 - 140 | 1 | 20 |
| Chlorobromomethane | ND | | 25.0 | 26.4 | | ug/L | | 105 | 60 - 140 | 1 | 20 |
| Bromoform | ND | | 25.0 | 29.7 | | ug/L | | 119 | 56 - 140 | 3 | 20 |
| Bromomethane | ND | | 25.0 | 18.3 | | ug/L | | 73 | 23 - 140 | 3 | 20 |
| 2-Butanone (MEK) | ND | | 125 | 127 | | ug/L | | 102 | 60 - 140 | 7 | 20 |
| n-Butylbenzene | ND | | 25.0 | 27.6 | | ug/L | | 110 | 60 - 140 | 0 | 20 |
| sec-Butylbenzene | ND | | 25.0 | 27.4 | | ug/L | | 110 | 60 - 140 | 1 | 20 |
| tert-Butylbenzene | ND | | 25.0 | 26.8 | | ug/L | | 107 | 60 - 140 | 2 | 20 |
| Carbon disulfide | ND | | 25.0 | 30.0 | | ug/L | | 120 | 38 - 140 | 3 | 20 |
| Carbon tetrachloride | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 | 1 | 20 |
| Chlorobenzene | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 | 1 | 20 |
| Chloroethane | ND | | 25.0 | 20.5 | | ug/L | | 82 | 51 - 140 | 3 | 20 |
| Chloroform | ND | | 25.0 | 26.9 | | ug/L | | 107 | 60 - 140 | 0 | 20 |
| Chloromethane | ND | | 25.0 | 18.1 | | ug/L | | 72 | 52 - 140 | 5 | 20 |
| 2-Chlorotoluene | ND | | 25.0 | 27.7 | | ug/L | | 111 | 60 - 140 | 1 | 20 |
| 4-Chlorotoluene | ND | | 25.0 | 28.4 | | ug/L | | 114 | 60 - 140 | 2 | 20 |
| Chlorodibromomethane | ND | | 25.0 | 26.5 | | ug/L | | 106 | 60 - 140 | 2 | 20 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 | 1 | 20 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-75220-A-2 MSD

Matrix: Water

Analysis Batch: 211646

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,3-Dichlorobenzene | ND | | 25.0 | 26.2 | | ug/L | | 105 | 60 - 140 | 1 | 20 |
| 1,4-Dichlorobenzene | ND | | 25.0 | 26.4 | | ug/L | | 106 | 60 - 140 | 0 | 20 |
| 1,3-Dichloropropane | ND | | 25.0 | 28.4 | | ug/L | | 114 | 60 - 140 | 2 | 20 |
| 1,1-Dichloropropene | ND | | 25.0 | 26.5 | | ug/L | | 106 | 60 - 140 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25.0 | 25.9 | | ug/L | | 104 | 60 - 140 | 6 | 20 |
| Ethylene Dibromide | ND | | 25.0 | 28.9 | | ug/L | | 115 | 60 - 140 | 3 | 20 |
| Dibromomethane | ND | | 25.0 | 27.8 | | ug/L | | 111 | 60 - 140 | 3 | 20 |
| Dichlorodifluoromethane | ND | | 25.0 | 13.4 | | ug/L | | 54 | 38 - 140 | 7 | 20 |
| 1,1-Dichloroethane | ND | | 25.0 | 27.9 | | ug/L | | 111 | 60 - 140 | 0 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 | 2 | 20 |
| 1,1-Dichloroethene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 140 | 2 | 20 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 27.0 | | ug/L | | 108 | 60 - 140 | 1 | 20 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 27.0 | | ug/L | | 108 | 60 - 140 | 1 | 20 |
| 1,2-Dichloropropane | ND | | 25.0 | 30.0 | | ug/L | | 120 | 60 - 140 | 1 | 20 |
| cis-1,3-Dichloropropene | ND | | 25.0 | 27.7 | | ug/L | | 111 | 60 - 140 | 2 | 20 |
| trans-1,3-Dichloropropene | ND | | 25.0 | 26.7 | | ug/L | | 107 | 60 - 140 | 3 | 20 |
| Ethylbenzene | ND | | 25.0 | 27.4 | | ug/L | | 109 | 60 - 140 | 1 | 20 |
| Hexachlorobutadiene | ND | | 25.0 | 25.0 | | ug/L | | 100 | 60 - 140 | 1 | 20 |
| 2-Hexanone | ND | | 125 | 137 | | ug/L | | 110 | 60 - 140 | 10 | 20 |
| Isopropylbenzene | ND | | 25.0 | 27.3 | | ug/L | | 109 | 60 - 140 | 1 | 20 |
| 4-Isopropyltoluene | ND | | 25.0 | 26.9 | | ug/L | | 107 | 60 - 140 | 1 | 20 |
| Methylene Chloride | ND | | 25.0 | 26.8 | | ug/L | | 107 | 40 - 140 | 0 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 142 | | ug/L | | 113 | 58 - 130 | 8 | 20 |
| Naphthalene | ND | | 25.0 | 28.7 | | ug/L | | 115 | 56 - 140 | 9 | 20 |
| N-Propylbenzene | ND | | 25.0 | 27.7 | | ug/L | | 111 | 60 - 140 | 2 | 20 |
| Styrene | ND | | 25.0 | 25.2 | | ug/L | | 101 | 60 - 140 | 0 | 20 |
| 1,1,1,2-Tetrachloroethane | ND | | 25.0 | 26.3 | | ug/L | | 105 | 60 - 140 | 0 | 20 |
| 1,1,1,2,2-Tetrachloroethane | ND | | 25.0 | 29.6 | | ug/L | | 118 | 60 - 140 | 3 | 20 |
| Tetrachloroethene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 140 | 0 | 20 |
| Toluene | ND | | 25.0 | 27.9 | | ug/L | | 112 | 60 - 140 | 1 | 20 |
| 1,2,3-Trichlorobenzene | ND | | 25.0 | 27.0 | | ug/L | | 108 | 60 - 140 | 4 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 25.0 | 27.3 | | ug/L | | 109 | 60 - 140 | 3 | 20 |
| 1,1,1-Trichloroethane | ND | | 25.0 | 26.4 | | ug/L | | 106 | 60 - 140 | 2 | 20 |
| 1,1,1,2-Trichloroethane | ND | | 25.0 | 28.9 | | ug/L | | 116 | 60 - 140 | 2 | 20 |
| Trichloroethene | ND | | 25.0 | 25.7 | | ug/L | | 103 | 60 - 140 | 1 | 20 |
| Trichlorofluoromethane | ND | | 25.0 | 21.2 | | ug/L | | 85 | 60 - 140 | 3 | 20 |
| 1,2,3-Trichloropropane | ND | | 25.0 | 29.8 | | ug/L | | 119 | 60 - 140 | 4 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 25.0 | 24.9 | | ug/L | | 100 | 60 - 140 | 3 | 20 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 27.6 | | ug/L | | 110 | 60 - 140 | 1 | 20 |
| 1,3,5-Trimethylbenzene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 60 - 140 | 2 | 20 |
| Vinyl acetate | ND | | 25.0 | 26.7 | | ug/L | | 107 | 40 - 140 | 5 | 20 |
| Vinyl chloride | 3.7 | | 25.0 | 22.1 | | ug/L | | 74 | 58 - 140 | 2 | 20 |
| m-Xylene & p-Xylene | ND | | 25.0 | 26.8 | | ug/L | | 107 | 60 - 140 | 0 | 20 |
| o-Xylene | ND | | 25.0 | 27.3 | | ug/L | | 109 | 60 - 140 | 1 | 20 |
| 2,2-Dichloropropane | ND | | 25.0 | 26.8 | | ug/L | | 107 | 60 - 140 | 4 | 20 |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 720-75220-A-2 MSD
Matrix: Water
Analysis Batch: 211646

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

| Surrogate | MSD MSD | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene | 95 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 72 - 130 |
| Toluene-d8 (Surr) | 96 | | 70 - 130 |

Lab Sample ID: MB 720-211675/4
Matrix: Water
Analysis Batch: 211675

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

| Analyte | MB MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------|--------|-----------|------|-----|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Benzene | ND | | 0.50 | | ug/L | | | 10/21/16 08:51 | 1 |
| Ethylbenzene | ND | | 0.50 | | ug/L | | | 10/21/16 08:51 | 1 |
| Naphthalene | ND | | 1.0 | | ug/L | | | 10/21/16 08:51 | 1 |
| Toluene | ND | | 0.50 | | ug/L | | | 10/21/16 08:51 | 1 |
| Xylenes, Total | ND | | 1.0 | | ug/L | | | 10/21/16 08:51 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 4-Bromofluorobenzene | 100 | | 67 - 130 | | 10/21/16 08:51 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 72 - 130 | | 10/21/16 08:51 | 1 |
| Toluene-d8 (Surr) | 93 | | 70 - 130 | | 10/21/16 08:51 | 1 |

Lab Sample ID: LCS 720-211675/5
Matrix: Water
Analysis Batch: 211675

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits | |
|---------------------|-------------|------------|---------------|------|---|------|--------------|--|
| | | | | | | | | |
| Benzene | 25.0 | 26.3 | | ug/L | | 105 | 79 - 130 | |
| Ethylbenzene | 25.0 | 26.4 | | ug/L | | 106 | 80 - 120 | |
| Naphthalene | 25.0 | 28.3 | | ug/L | | 113 | 50 - 130 | |
| Toluene | 25.0 | 26.3 | | ug/L | | 105 | 78 - 120 | |
| m-Xylene & p-Xylene | 25.0 | 26.6 | | ug/L | | 106 | 70 - 142 | |
| o-Xylene | 25.0 | 26.1 | | ug/L | | 104 | 70 - 130 | |

| Surrogate | LCS LCS | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene | 98 | | 67 - 130 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 72 - 130 |
| Toluene-d8 (Surr) | 94 | | 70 - 130 |

Lab Sample ID: LCSD 720-211675/6
Matrix: Water
Analysis Batch: 211675

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | | RPD Limit | |
|---------------------|-------------|-------------|----------------|------|---|------|--------------|---|-----------|-------|
| | | | | | | | | | RPD | Limit |
| Benzene | 25.0 | 26.4 | | ug/L | | 106 | 79 - 130 | 0 | 20 | |
| Ethylbenzene | 25.0 | 26.7 | | ug/L | | 107 | 80 - 120 | 1 | 20 | |
| Naphthalene | 25.0 | 27.2 | | ug/L | | 109 | 50 - 130 | 4 | 20 | |
| Toluene | 25.0 | 26.7 | | ug/L | | 107 | 78 - 120 | 1 | 20 | |
| m-Xylene & p-Xylene | 25.0 | 26.6 | | ug/L | | 106 | 70 - 142 | 0 | 20 | |

TestAmerica Pleasanton

QC Sample Results

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

TestAmerica Job ID: 720-75272-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-211675/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 211675

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|------------------|-----------------------|----------------|------|---|------|--------------|-----|-----------|
| o-Xylene | 25.0 | 25.9 | | ug/L | | 104 | 70 - 130 | 0 | 20 |
| Surrogate | %Recovery | LCSD Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene | 97 | | 67 - 130 | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 72 - 130 | | | | | | |
| Toluene-d8 (Surr) | 94 | | 70 - 130 | | | | | | |

Lab Sample ID: 720-75248-A-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 211675

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|------------------|---------------------|---------------|-----------|--------------|------|---|------|--------------|
| Benzene | ND | | 25.0 | 25.7 | | ug/L | | 103 | 60 - 140 |
| Ethylbenzene | ND | | 25.0 | 25.5 | | ug/L | | 102 | 60 - 140 |
| Naphthalene | ND | | 25.0 | 28.9 | | ug/L | | 112 | 56 - 140 |
| Toluene | ND | | 25.0 | 25.8 | | ug/L | | 103 | 60 - 140 |
| m-Xylene & p-Xylene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 140 |
| o-Xylene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 60 - 140 |
| Surrogate | %Recovery | MS Qualifier | Limits | | | | | | |
| 4-Bromofluorobenzene | 97 | | 67 - 130 | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 72 - 130 | | | | | | |
| Toluene-d8 (Surr) | 94 | | 70 - 130 | | | | | | |

Lab Sample ID: 720-75248-A-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 211675

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|------------------|----------------------|---------------|------------|---------------|------|---|------|--------------|-----|-----------|
| Benzene | ND | | 25.0 | 25.7 | | ug/L | | 103 | 60 - 140 | 0 | 20 |
| Ethylbenzene | ND | | 25.0 | 25.4 | | ug/L | | 102 | 60 - 140 | 0 | 20 |
| Naphthalene | ND | | 25.0 | 28.6 | | ug/L | | 110 | 56 - 140 | 1 | 20 |
| Toluene | ND | | 25.0 | 25.7 | | ug/L | | 103 | 60 - 140 | 0 | 20 |
| m-Xylene & p-Xylene | ND | | 25.0 | 25.2 | | ug/L | | 101 | 60 - 140 | 1 | 20 |
| o-Xylene | ND | | 25.0 | 25.4 | | ug/L | | 101 | 60 - 140 | 0 | 20 |
| Surrogate | %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 4-Bromofluorobenzene | 97 | | 67 - 130 | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 72 - 130 | | | | | | | | |
| Toluene-d8 (Surr) | 94 | | 70 - 130 | | | | | | | | |

TestAmerica Pleasanton

QC Association Summary

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

TestAmerica Job ID: 720-75272-1

GC/MS VOA

Analysis Batch: 211646

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 720-75272-1 | PGW2-GW | Total/NA | Water | 8260B | |
| MB 720-211646/4 | Method Blank | Total/NA | Water | 8260B | |
| LCS 720-211646/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 720-211646/6 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| 720-75220-A-2 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 720-75220-A-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |

Analysis Batch: 211675

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 720-75272-1 | PGW2-GW | Total/NA | Water | 8260B | |
| MB 720-211675/4 | Method Blank | Total/NA | Water | 8260B | |
| LCS 720-211675/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| LCSD 720-211675/6 | Lab Control Sample Dup | Total/NA | Water | 8260B | |
| 720-75248-A-1 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 720-75248-A-1 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |

Lab Chronicle

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

TestAmerica Job ID: 720-75272-1

Client Sample ID: PGW2-GW

Lab Sample ID: 720-75272-1

Date Collected: 10/20/16 05:30

Matrix: Water

Date Received: 10/20/16 10:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 211646 | 10/21/16 02:40 | LPL | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211675 | 10/21/16 12:39 | LPL | TAL PLS |

Laboratory References:

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

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Certification Summary

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

TestAmerica Job ID: 720-75272-1

Laboratory: TestAmerica Pleasanton

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

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|------------|---------------|------------|------------------|-----------------|
| California | State Program | 9 | 2496 | 01-31-18 |

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | 4040 | 01-29-17 |

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Method Summary

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

TestAmerica Job ID: 720-75272-1

| Method | Method Description | Protocol | Laboratory |
|--------|------------------------------------|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PLS |

Protocol References:

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

Laboratory References:

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



Sample Summary

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

TestAmerica Job ID: 720-75272-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 720-75272-1 | PGW2-GW | Water | 10/20/16 05:30 | 10/20/16 10:30 |

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Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-75272-1

Login Number: 75272

List Number: 1

Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (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 $<6\text{mm}$ (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

ANALYTICAL REPORT

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

TestAmerica Job ID: 720-75297-1

Client Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

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

Attn: Mr. Kyle Flory

Beth Riley

Authorized for release by:
10/25/2016 3:44:40 PM

Beth Riley, Project Manager II
(714)258-8610
beth.riley@testamericainc.com

LINKS

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www.testamericainc.com

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 Soil & Wa

TestAmerica Job ID: 720-75297-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|---|
| * | ISTD response or retention time outside acceptable limits |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| α | 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) |

Case Narrative

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Job ID: 720-75297-1

Laboratory: TestAmerica Pleasanton

Narrative

**Job Narrative
720-75297-1**

Comments

No additional comments.

Receipt

The samples were received on 10/21/2016 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

Method(s) 8260B: Internal standard (ISTD) response for the following sample was outside control limits: PSV1-9.75-10.25 (720-75297-2). The sample was re-analyzed with concurring results, and the second set of data has been reported.

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

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Detection Summary

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV1-5-5.5

Lab Sample ID: 720-75297-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|-------|---------|---|--------|-----------|
| Acetone | 48 | | 41 | | ug/Kg | 1 | | 8260B | Total/NA |

Client Sample ID: PSV1-9.75-10.25

Lab Sample ID: 720-75297-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|-------|---------|---|--------|-----------|
| 1,2,4-Trimethylbenzene | 16 | * | 4.1 | | ug/Kg | 1 | | 8260B | Total/NA |
| 1,3,5-Trimethylbenzene | 6.8 | * | 4.1 | | ug/Kg | 1 | | 8260B | Total/NA |
| Acetone | 41 | | 41 | | ug/Kg | 1 | | 8260B | Total/NA |
| Ethylbenzene | 12 | | 4.1 | | ug/Kg | 1 | | 8260B | Total/NA |
| Naphthalene | 9.2 | * | 8.2 | | ug/Kg | 1 | | 8260B | Total/NA |
| sec-Butylbenzene | 6.6 | * | 4.1 | | ug/Kg | 1 | | 8260B | Total/NA |
| tert-Butylbenzene | 4.2 | * | 4.1 | | ug/Kg | 1 | | 8260B | Total/NA |
| Toluene | 11 | | 4.1 | | ug/Kg | 1 | | 8260B | Total/NA |
| Xylenes, Total | 67 | | 8.2 | | ug/Kg | 1 | | 8260B | Total/NA |

Client Sample ID: PSV2-5-5.5

Lab Sample ID: 720-75297-3

No Detections.

Client Sample ID: PSV2-9.75-10.25

Lab Sample ID: 720-75297-4

No Detections.

Client Sample ID: PSV3-5-5.5

Lab Sample ID: 720-75297-5

No Detections.

Client Sample ID: PSV3-7.5-8

Lab Sample ID: 720-75297-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|-------|---------|---|--------|-----------|
| Acetone | 63 | | 35 | | ug/Kg | 1 | | 8260B | Total/NA |

Client Sample ID: PSV4-5-5.5

Lab Sample ID: 720-75297-7

No Detections.

Client Sample ID: PSV4-9.75-10.25

Lab Sample ID: 720-75297-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV1-5-5.5

Lab Sample ID: 720-75297-1

Date Collected: 10/21/16 00:30

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,1-Dichloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,1-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,1-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,2,3-Trichloropropane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,2-Dichlorobenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,2-Dichloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,2-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,3-Dichlorobenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,3-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 1,4-Dichlorobenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 2,2-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 2-Butanone (MEK) | ND | | 41 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 2-Chlorotoluene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 2-Hexanone | ND | | 41 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 4-Chlorotoluene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 4-Isopropyltoluene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 41 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Acetone | 48 | | 41 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Benzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Bromobenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Bromoform | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Bromomethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Carbon disulfide | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Carbon tetrachloride | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Chlorobenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Chlorobromomethane | ND | | 16 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Chlorodibromomethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Chloroethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Chloroform | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Chloromethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Dibromomethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Dichlorobromomethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Dichlorodifluoromethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Ethylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Ethylene Dibromide | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Hexachlorobutadiene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Isopropylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV1-5-5.5

Lab Sample ID: 720-75297-1

Date Collected: 10/21/16 00:30

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Methylene Chloride | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Naphthalene | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| n-Butylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| N-Propylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| sec-Butylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Styrene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| tert-Butylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Tetrachloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Toluene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Trichloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Trichlorofluoromethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Vinyl acetate | ND | | 16 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Vinyl chloride | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Xylenes, Total | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 21:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 60 - 140 | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| 4-Bromofluorobenzene | 87 | | 45 - 131 | 10/21/16 13:30 | 10/21/16 21:36 | 1 |
| Toluene-d8 (Surr) | 92 | | 58 - 140 | 10/21/16 13:30 | 10/21/16 21:36 | 1 |

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV1-9.75-10.25

Lab Sample ID: 720-75297-2

Date Collected: 10/21/16 00:40

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,1-Dichloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,1-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,1-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,2,3-Trichloropropane | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,2,4-Trimethylbenzene | 16 | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | * | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,2-Dichlorobenzene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,2-Dichloroethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,2-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,3,5-Trimethylbenzene | 6.8 | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,3-Dichlorobenzene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,3-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 1,4-Dichlorobenzene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 2,2-Dichloropropane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 2-Butanone (MEK) | ND | | 41 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 2-Chlorotoluene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 2-Hexanone | ND | | 41 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 4-Chlorotoluene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 4-Isopropyltoluene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 41 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Acetone | 41 | | 41 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Benzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Bromobenzene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Bromoform | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Bromomethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Carbon disulfide | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Carbon tetrachloride | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Chlorobenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Chlorobromomethane | ND | | 16 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Chlorodibromomethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Chloroethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Chloroform | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Chloromethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Dibromomethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Dichlorobromomethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Dichlorodifluoromethane | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Ethylbenzene | 12 | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Ethylene Dibromide | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Hexachlorobutadiene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Isopropylbenzene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV1-9.75-10.25

Lab Sample ID: 720-75297-2

Date Collected: 10/21/16 00:40

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Methylene Chloride | ND | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Naphthalene | 9.2 | * | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| n-Butylbenzene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| N-Propylbenzene | ND | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| sec-Butylbenzene | 6.6 | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Styrene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| tert-Butylbenzene | 4.2 | * | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Tetrachloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Toluene | 11 | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Trichloroethene | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Trichlorofluoromethane | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Vinyl acetate | ND | | 16 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Vinyl chloride | ND | | 4.1 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| Xylenes, Total | 67 | | 8.2 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:41 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 107 | | 60 - 140 | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| <i>4-Bromofluorobenzene</i> | 53 | | 45 - 131 | 10/21/16 13:30 | 10/24/16 12:41 | 1 |
| <i>Toluene-d8 (Surr)</i> | 87 | | 58 - 140 | 10/21/16 13:30 | 10/24/16 12:41 | 1 |

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV2-5-5.5

Lab Sample ID: 720-75297-3

Date Collected: 10/21/16 00:50

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,1,1-Trichloroethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,1-Dichloroethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,1-Dichloroethene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,1-Dichloropropene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,2,3-Trichloropropane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,2-Dichloroethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,2-Dichloropropane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,3-Dichloropropane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 2,2-Dichloropropane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 2-Butanone (MEK) | ND | | 36 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 2-Chlorotoluene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 2-Hexanone | ND | | 36 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 4-Chlorotoluene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 4-Isopropyltoluene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 36 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Acetone | ND | | 36 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Benzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Bromobenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Bromoform | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Bromomethane | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Carbon disulfide | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Carbon tetrachloride | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Chlorobenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Chlorobromomethane | ND | | 14 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Chlorodibromomethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Chloroethane | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Chloroform | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Chloromethane | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Dibromomethane | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Dichlorobromomethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Dichlorodifluoromethane | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Ethylbenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Ethylene Dibromide | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Hexachlorobutadiene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Isopropylbenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV2-5-5.5

Lab Sample ID: 720-75297-3

Date Collected: 10/21/16 00:50

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Methylene Chloride | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Naphthalene | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| n-Butylbenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| N-Propylbenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| sec-Butylbenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Styrene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| tert-Butylbenzene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Tetrachloroethene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Toluene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Trichloroethene | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Trichlorofluoromethane | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Vinyl acetate | ND | | 14 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Vinyl chloride | ND | | 3.6 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Xylenes, Total | ND | | 7.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 22:36 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 60 - 140 | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| 4-Bromofluorobenzene | 103 | | 45 - 131 | 10/21/16 13:30 | 10/21/16 22:36 | 1 |
| Toluene-d8 (Surr) | 96 | | 58 - 140 | 10/21/16 13:30 | 10/21/16 22:36 | 1 |

Client Sample Results

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV2-9.75-10.25

Lab Sample ID: 720-75297-4

Date Collected: 10/21/16 00:55

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,1,1-Trichloroethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,1-Dichloroethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,1-Dichloroethene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,1-Dichloropropene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,2,3-Trichloropropane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,2-Dichloroethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,2-Dichloropropane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,3-Dichloropropane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 2,2-Dichloropropane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 2-Butanone (MEK) | ND | | 34 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 2-Chlorotoluene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 2-Hexanone | ND | | 34 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 4-Chlorotoluene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 4-Isopropyltoluene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 34 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Acetone | ND | | 34 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Benzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Bromobenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Bromoform | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Bromomethane | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Carbon disulfide | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Carbon tetrachloride | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Chlorobenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Chlorobromomethane | ND | | 14 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Chlorodibromomethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Chloroethane | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Chloroform | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Chloromethane | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Dibromomethane | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Dichlorobromomethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Dichlorodifluoromethane | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Ethylbenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Ethylene Dibromide | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Hexachlorobutadiene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Isopropylbenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV2-9.75-10.25

Lab Sample ID: 720-75297-4

Date Collected: 10/21/16 00:55

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Methylene Chloride | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Naphthalene | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| n-Butylbenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| N-Propylbenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| sec-Butylbenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Styrene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| tert-Butylbenzene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Tetrachloroethene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Toluene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Trichloroethene | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Trichlorofluoromethane | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Vinyl acetate | ND | | 14 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Vinyl chloride | ND | | 3.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Xylenes, Total | ND | | 6.9 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 60 - 140 | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| 4-Bromofluorobenzene | 101 | | 45 - 131 | 10/21/16 13:30 | 10/21/16 23:06 | 1 |
| Toluene-d8 (Surr) | 93 | | 58 - 140 | 10/21/16 13:30 | 10/21/16 23:06 | 1 |

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV3-5-5.5

Lab Sample ID: 720-75297-5

Date Collected: 10/21/16 01:15

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,1,1-Trichloroethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,1-Dichloroethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,1-Dichloroethene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,1-Dichloropropene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,2,3-Trichloropropane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,2-Dichloroethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,2-Dichloropropane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,3-Dichloropropane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 2,2-Dichloropropane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 2-Butanone (MEK) | ND | | 32 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 2-Chlorotoluene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 2-Hexanone | ND | | 32 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 4-Chlorotoluene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 4-Isopropyltoluene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 32 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Acetone | ND | | 32 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Benzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Bromobenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Bromoform | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Bromomethane | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Carbon disulfide | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Carbon tetrachloride | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Chlorobenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Chlorobromomethane | ND | | 13 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Chlorodibromomethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Chloroethane | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Chloroform | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Chloromethane | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Dibromomethane | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Dichlorobromomethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Dichlorodifluoromethane | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Ethylbenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Ethylene Dibromide | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Hexachlorobutadiene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Isopropylbenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV3-5-5.5

Lab Sample ID: 720-75297-5

Date Collected: 10/21/16 01:15

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Methylene Chloride | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Naphthalene | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| n-Butylbenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| N-Propylbenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| sec-Butylbenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Styrene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| tert-Butylbenzene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Tetrachloroethene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Toluene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Trichloroethene | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Trichlorofluoromethane | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Vinyl acetate | ND | | 13 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Vinyl chloride | ND | | 3.2 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Xylenes, Total | ND | | 6.4 | | ug/Kg | | 10/21/16 13:30 | 10/21/16 23:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 60 - 140 | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| 4-Bromofluorobenzene | 91 | | 45 - 131 | 10/21/16 13:30 | 10/21/16 23:35 | 1 |
| Toluene-d8 (Surr) | 89 | | 58 - 140 | 10/21/16 13:30 | 10/21/16 23:35 | 1 |

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV3-7.5-8

Lab Sample ID: 720-75297-6

Date Collected: 10/21/16 01:25

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,1,1-Trichloroethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,1-Dichloroethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,1-Dichloroethene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,1-Dichloropropene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,2,3-Trichloropropane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,2-Dichloroethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,2-Dichloropropane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,3-Dichloropropane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 2,2-Dichloropropane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 2-Butanone (MEK) | ND | | 35 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 2-Chlorotoluene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 2-Hexanone | ND | | 35 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 4-Chlorotoluene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 4-Isopropyltoluene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 35 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Acetone | 63 | | 35 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Benzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Bromobenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Bromoform | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Bromomethane | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Carbon disulfide | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Carbon tetrachloride | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Chlorobenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Chlorobromomethane | ND | | 14 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Chlorodibromomethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Chloroethane | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Chloroform | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Chloromethane | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Dibromomethane | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Dichlorobromomethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Dichlorodifluoromethane | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Ethylbenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Ethylene Dibromide | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Hexachlorobutadiene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Isopropylbenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV3-7.5-8

Lab Sample ID: 720-75297-6

Date Collected: 10/21/16 01:25

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Methylene Chloride | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Naphthalene | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| n-Butylbenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| N-Propylbenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| sec-Butylbenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Styrene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| tert-Butylbenzene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Tetrachloroethene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Toluene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Trichloroethene | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Trichlorofluoromethane | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Vinyl acetate | ND | | 14 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Vinyl chloride | ND | | 3.5 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Xylenes, Total | ND | | 7.1 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 60 - 140 | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| 4-Bromofluorobenzene | 88 | | 45 - 131 | 10/21/16 13:30 | 10/22/16 00:05 | 1 |
| Toluene-d8 (Surr) | 85 | | 58 - 140 | 10/21/16 13:30 | 10/22/16 00:05 | 1 |

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV4-5-5.5

Lab Sample ID: 720-75297-7

Date Collected: 10/21/16 02:00

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,1,1-Trichloroethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,1-Dichloroethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,1-Dichloroethene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,1-Dichloropropene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,2,3-Trichloropropane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,2-Dichloroethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,2-Dichloropropane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,3-Dichloropropane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 2,2-Dichloropropane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 2-Butanone (MEK) | ND | | 37 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 2-Chlorotoluene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 2-Hexanone | ND | | 37 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 4-Chlorotoluene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 4-Isopropyltoluene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 37 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Acetone | ND | | 37 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Benzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Bromobenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Bromoform | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Bromomethane | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Carbon disulfide | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Carbon tetrachloride | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Chlorobenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Chlorobromomethane | ND | | 15 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Chlorodibromomethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Chloroethane | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Chloroform | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Chloromethane | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Dibromomethane | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Dichlorobromomethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Dichlorodifluoromethane | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Ethylbenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Ethylene Dibromide | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Hexachlorobutadiene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Isopropylbenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV4-5-5.5

Lab Sample ID: 720-75297-7

Date Collected: 10/21/16 02:00

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Methylene Chloride | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Naphthalene | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| n-Butylbenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| N-Propylbenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| sec-Butylbenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Styrene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| tert-Butylbenzene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Tetrachloroethene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Toluene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Trichloroethene | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Trichlorofluoromethane | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Vinyl acetate | ND | | 15 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Vinyl chloride | ND | | 3.7 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Xylenes, Total | ND | | 7.4 | | ug/Kg | | 10/21/16 13:30 | 10/22/16 00:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 60 - 140 | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| 4-Bromofluorobenzene | 86 | | 45 - 131 | 10/21/16 13:30 | 10/22/16 00:35 | 1 |
| Toluene-d8 (Surr) | 88 | | 58 - 140 | 10/21/16 13:30 | 10/22/16 00:35 | 1 |

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV4-9.75-10.25

Lab Sample ID: 720-75297-8

Date Collected: 10/21/16 02:15

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,1,1-Trichloroethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,1,2-Trichloroethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,1-Dichloroethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,1-Dichloroethene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,1-Dichloropropene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,2,3-Trichloropropane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,2-Dichlorobenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,2-Dichloroethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,2-Dichloropropane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,3-Dichlorobenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,3-Dichloropropane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 1,4-Dichlorobenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 2,2-Dichloropropane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 2-Butanone (MEK) | ND | | 38 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 2-Chlorotoluene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 2-Hexanone | ND | | 38 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 4-Chlorotoluene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 4-Isopropyltoluene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 38 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Acetone | ND | | 38 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Benzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Bromobenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Bromoform | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Bromomethane | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Carbon disulfide | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Carbon tetrachloride | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Chlorobenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Chlorobromomethane | ND | | 15 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Chlorodibromomethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Chloroethane | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Chloroform | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Chloromethane | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| cis-1,2-Dichloroethene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| cis-1,3-Dichloropropene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Dibromomethane | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Dichlorobromomethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Dichlorodifluoromethane | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Ethylbenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Ethylene Dibromide | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Hexachlorobutadiene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Isopropylbenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |

TestAmerica Pleasanton

Client Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV4-9.75-10.25

Lab Sample ID: 720-75297-8

Date Collected: 10/21/16 02:15

Matrix: Solid

Date Received: 10/21/16 10:15

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Methyl tert-butyl ether | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Methylene Chloride | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Naphthalene | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| n-Butylbenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| N-Propylbenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| sec-Butylbenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Styrene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| tert-Butylbenzene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Tetrachloroethene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Toluene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| trans-1,2-Dichloroethene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| trans-1,3-Dichloropropene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Trichloroethene | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Trichlorofluoromethane | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Vinyl acetate | ND | | 15 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Vinyl chloride | ND | | 3.8 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Xylenes, Total | ND | | 7.5 | | ug/Kg | | 10/21/16 13:30 | 10/24/16 12:11 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 60 - 140 | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| 4-Bromofluorobenzene | 112 | | 45 - 131 | 10/21/16 13:30 | 10/24/16 12:11 | 1 |
| Toluene-d8 (Surr) | 95 | | 58 - 140 | 10/21/16 13:30 | 10/24/16 12:11 | 1 |

Surrogate Summary

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 12DCE (60-140) | BFB (45-131) | TOL (58-140) |
|-------------------|------------------------|-------------------|-----------------|-----------------|
| 720-75297-1 | PSV1-5-5.5 | 105 | 87 | 92 |
| 720-75297-2 | PSV1-9.75-10.25 | 107 | 53 | 87 |
| 720-75297-3 | PSV2-5-5.5 | 95 | 103 | 96 |
| 720-75297-4 | PSV2-9.75-10.25 | 101 | 101 | 93 |
| 720-75297-5 | PSV3-5-5.5 | 103 | 91 | 89 |
| 720-75297-6 | PSV3-7.5-8 | 110 | 88 | 85 |
| 720-75297-7 | PSV4-5-5.5 | 106 | 86 | 88 |
| 720-75297-8 | PSV4-9.75-10.25 | 102 | 112 | 95 |
| LCS 720-211754/5 | Lab Control Sample | 97 | 101 | 98 |
| LCS 720-211788/6 | Lab Control Sample | 95 | 100 | 98 |
| LCSD 720-211754/6 | Lab Control Sample Dup | 93 | 100 | 99 |
| LCSD 720-211788/7 | Lab Control Sample Dup | 93 | 98 | 98 |
| MB 720-211754/4 | Method Blank | 100 | 99 | 98 |
| MB 720-211788/5 | Method Blank | 96 | 96 | 94 |

Surrogate Legend

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

BFB = 4-Bromofluorobenzene

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-211754/4

Matrix: Solid

Analysis Batch: 211754

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Bromomethane | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Chloroethane | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Chloromethane | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Dibromomethane | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Dichlorodifluoromethane | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-211754/4
Matrix: Solid
Analysis Batch: 211754

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Methylene Chloride | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Naphthalene | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Vinyl acetate | ND | | 20 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | | 10/21/16 19:08 | 1 |
| Xylenes, Total | ND | | 10 | | ug/Kg | | | 10/21/16 19:08 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 60 - 140 | | 10/21/16 19:08 | 1 |
| 4-Bromofluorobenzene | 99 | | 45 - 131 | | 10/21/16 19:08 | 1 |
| Toluene-d8 (Surr) | 98 | | 58 - 140 | | 10/21/16 19:08 | 1 |

Lab Sample ID: LCS 720-211754/5
Matrix: Solid
Analysis Batch: 211754

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,1,1,2-Tetrachloroethane | 50.0 | 54.5 | | ug/Kg | | 109 | 70 - 130 |
| 1,1,1-Trichloroethane | 50.0 | 50.3 | | ug/Kg | | 101 | 70 - 130 |
| 1,1,1,2-Tetrachloroethane | 50.0 | 50.8 | | ug/Kg | | 102 | 70 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 54.1 | | ug/Kg | | 108 | 60 - 140 |
| 1,1,2-Trichloroethane | 50.0 | 52.3 | | ug/Kg | | 105 | 70 - 130 |
| 1,1-Dichloroethane | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 130 |
| 1,1-Dichloroethene | 50.0 | 51.4 | | ug/Kg | | 103 | 74 - 122 |
| 1,1-Dichloropropene | 50.0 | 49.1 | | ug/Kg | | 98 | 70 - 130 |
| 1,2,3-Trichlorobenzene | 50.0 | 55.2 | | ug/Kg | | 110 | 60 - 140 |
| 1,2,3-Trichloropropane | 50.0 | 51.7 | | ug/Kg | | 103 | 70 - 146 |
| 1,2,4-Trichlorobenzene | 50.0 | 55.9 | | ug/Kg | | 112 | 60 - 140 |
| 1,2,4-Trimethylbenzene | 50.0 | 51.0 | | ug/Kg | | 102 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 55.8 | | ug/Kg | | 112 | 60 - 145 |
| 1,2-Dichlorobenzene | 50.0 | 51.5 | | ug/Kg | | 103 | 70 - 130 |
| 1,2-Dichloroethane | 50.0 | 53.2 | | ug/Kg | | 106 | 70 - 130 |
| 1,2-Dichloropropane | 50.0 | 51.4 | | ug/Kg | | 103 | 73 - 127 |
| 1,3,5-Trimethylbenzene | 50.0 | 50.2 | | ug/Kg | | 100 | 70 - 131 |
| 1,3-Dichlorobenzene | 50.0 | 50.1 | | ug/Kg | | 100 | 70 - 131 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211754/5

Matrix: Solid

Analysis Batch: 211754

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,3-Dichloropropane | 50.0 | 52.7 | | ug/Kg | | 105 | 70 - 140 |
| 1,4-Dichlorobenzene | 50.0 | 50.2 | | ug/Kg | | 100 | 70 - 130 |
| 2,2-Dichloropropane | 50.0 | 53.1 | | ug/Kg | | 106 | 70 - 162 |
| 2-Butanone (MEK) | 250 | 256 | | ug/Kg | | 103 | 59 - 159 |
| 2-Chlorotoluene | 50.0 | 47.7 | | ug/Kg | | 95 | 70 - 138 |
| 2-Hexanone | 250 | 259 | | ug/Kg | | 103 | 62 - 158 |
| 4-Chlorotoluene | 50.0 | 48.5 | | ug/Kg | | 97 | 70 - 136 |
| 4-Isopropyltoluene | 50.0 | 49.4 | | ug/Kg | | 99 | 70 - 133 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 258 | | ug/Kg | | 103 | 60 - 160 |
| Acetone | 250 | 244 | | ug/Kg | | 98 | 30 - 162 |
| Benzene | 50.0 | 48.3 | | ug/Kg | | 97 | 70 - 130 |
| Bromobenzene | 50.0 | 50.5 | | ug/Kg | | 101 | 70 - 130 |
| Bromoform | 50.0 | 61.8 | | ug/Kg | | 124 | 59 - 158 |
| Bromomethane | 50.0 | 53.6 | | ug/Kg | | 107 | 59 - 132 |
| Carbon disulfide | 50.0 | 52.1 | | ug/Kg | | 104 | 60 - 140 |
| Carbon tetrachloride | 50.0 | 55.9 | | ug/Kg | | 112 | 70 - 142 |
| Chlorobenzene | 50.0 | 49.3 | | ug/Kg | | 99 | 70 - 130 |
| Chlorobromomethane | 50.0 | 53.1 | | ug/Kg | | 106 | 70 - 130 |
| Chlorodibromomethane | 50.0 | 56.8 | | ug/Kg | | 114 | 70 - 146 |
| Chloroethane | 50.0 | 50.6 | | ug/Kg | | 101 | 65 - 130 |
| Chloroform | 50.0 | 52.9 | | ug/Kg | | 106 | 77 - 127 |
| Chloromethane | 50.0 | 53.0 | | ug/Kg | | 106 | 55 - 140 |
| cis-1,2-Dichloroethene | 50.0 | 50.4 | | ug/Kg | | 101 | 70 - 138 |
| cis-1,3-Dichloropropene | 50.0 | 54.6 | | ug/Kg | | 109 | 68 - 147 |
| Dibromomethane | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 139 |
| Dichlorobromomethane | 50.0 | 55.7 | | ug/Kg | | 111 | 70 - 140 |
| Dichlorodifluoromethane | 50.0 | 64.1 | | ug/Kg | | 128 | 37 - 158 |
| Ethylbenzene | 50.0 | 49.1 | | ug/Kg | | 98 | 80 - 137 |
| Ethylene Dibromide | 50.0 | 56.2 | | ug/Kg | | 112 | 70 - 140 |
| Hexachlorobutadiene | 50.0 | 55.7 | | ug/Kg | | 111 | 70 - 132 |
| Isopropylbenzene | 50.0 | 51.9 | | ug/Kg | | 104 | 70 - 130 |
| Methyl tert-butyl ether | 50.0 | 52.4 | | ug/Kg | | 105 | 70 - 144 |
| Methylene Chloride | 50.0 | 50.6 | | ug/Kg | | 101 | 70 - 134 |
| m-Xylene & p-Xylene | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 146 |
| Naphthalene | 50.0 | 55.0 | | ug/Kg | | 110 | 60 - 147 |
| n-Butylbenzene | 50.0 | 51.6 | | ug/Kg | | 103 | 70 - 142 |
| N-Propylbenzene | 50.0 | 48.0 | | ug/Kg | | 96 | 70 - 130 |
| o-Xylene | 50.0 | 49.7 | | ug/Kg | | 99 | 70 - 140 |
| sec-Butylbenzene | 50.0 | 48.9 | | ug/Kg | | 98 | 70 - 136 |
| Styrene | 50.0 | 53.5 | | ug/Kg | | 107 | 70 - 130 |
| tert-Butylbenzene | 50.0 | 48.7 | | ug/Kg | | 97 | 70 - 130 |
| Tetrachloroethene | 50.0 | 53.2 | | ug/Kg | | 106 | 70 - 132 |
| Toluene | 50.0 | 48.6 | | ug/Kg | | 97 | 75 - 120 |
| trans-1,2-Dichloroethene | 50.0 | 50.0 | | ug/Kg | | 100 | 67 - 130 |
| trans-1,3-Dichloropropene | 50.0 | 55.1 | | ug/Kg | | 110 | 70 - 155 |
| Trichloroethene | 50.0 | 51.8 | | ug/Kg | | 104 | 70 - 133 |
| Trichlorofluoromethane | 50.0 | 58.6 | | ug/Kg | | 117 | 60 - 140 |
| Vinyl acetate | 50.0 | 45.4 | | ug/Kg | | 91 | 38 - 176 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211754/5
Matrix: Solid
Analysis Batch: 211754

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|----------------|-------------|------------|---------------|-------|---|------|--------------|
| Vinyl chloride | 50.0 | 57.9 | | ug/Kg | | 116 | 58 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 60 - 140 |
| 4-Bromofluorobenzene | 101 | | 45 - 131 |
| Toluene-d8 (Surr) | 98 | | 58 - 140 |

Lab Sample ID: LCSD 720-211754/6
Matrix: Solid
Analysis Batch: 211754

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| 1,1,1,2-Tetrachloroethane | 50.0 | 54.5 | | ug/Kg | | 109 | 70 - 130 | 0 | 20 |
| 1,1,1-Trichloroethane | 50.0 | 50.8 | | ug/Kg | | 102 | 70 - 130 | 1 | 20 |
| 1,1,1,2,2-Tetrachloroethane | 50.0 | 48.4 | | ug/Kg | | 97 | 70 - 146 | 5 | 20 |
| 1,1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 55.1 | | ug/Kg | | 110 | 60 - 140 | 2 | 20 |
| 1,1,2-Trichloroethane | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 130 | 3 | 20 |
| 1,1-Dichloroethane | 50.0 | 48.5 | | ug/Kg | | 97 | 70 - 130 | 2 | 20 |
| 1,1-Dichloroethene | 50.0 | 53.5 | | ug/Kg | | 107 | 74 - 122 | 4 | 20 |
| 1,1-Dichloropropene | 50.0 | 49.8 | | ug/Kg | | 100 | 70 - 130 | 1 | 20 |
| 1,2,3-Trichlorobenzene | 50.0 | 54.9 | | ug/Kg | | 110 | 60 - 140 | 1 | 20 |
| 1,2,3-Trichloropropane | 50.0 | 49.0 | | ug/Kg | | 98 | 70 - 146 | 5 | 20 |
| 1,2,4-Trichlorobenzene | 50.0 | 56.1 | | ug/Kg | | 112 | 60 - 140 | 0 | 20 |
| 1,2,4-Trimethylbenzene | 50.0 | 52.5 | | ug/Kg | | 105 | 70 - 130 | 3 | 20 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 49.8 | | ug/Kg | | 100 | 60 - 145 | 11 | 20 |
| 1,2-Dichlorobenzene | 50.0 | 51.5 | | ug/Kg | | 103 | 70 - 130 | 0 | 20 |
| 1,2-Dichloroethane | 50.0 | 51.5 | | ug/Kg | | 103 | 70 - 130 | 3 | 20 |
| 1,2-Dichloropropane | 50.0 | 51.9 | | ug/Kg | | 104 | 73 - 127 | 1 | 20 |
| 1,3,5-Trimethylbenzene | 50.0 | 51.9 | | ug/Kg | | 104 | 70 - 131 | 3 | 20 |
| 1,3-Dichlorobenzene | 50.0 | 50.8 | | ug/Kg | | 102 | 70 - 131 | 1 | 20 |
| 1,3-Dichloropropane | 50.0 | 51.1 | | ug/Kg | | 102 | 70 - 140 | 3 | 20 |
| 1,4-Dichlorobenzene | 50.0 | 50.6 | | ug/Kg | | 101 | 70 - 130 | 1 | 20 |
| 2,2-Dichloropropane | 50.0 | 53.9 | | ug/Kg | | 108 | 70 - 162 | 2 | 20 |
| 2-Butanone (MEK) | 250 | 227 | | ug/Kg | | 91 | 59 - 159 | 12 | 20 |
| 2-Chlorotoluene | 50.0 | 49.6 | | ug/Kg | | 99 | 70 - 138 | 4 | 20 |
| 2-Hexanone | 250 | 225 | | ug/Kg | | 90 | 62 - 158 | 14 | 20 |
| 4-Chlorotoluene | 50.0 | 50.4 | | ug/Kg | | 101 | 70 - 136 | 4 | 20 |
| 4-Isopropyltoluene | 50.0 | 50.3 | | ug/Kg | | 101 | 70 - 133 | 2 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 227 | | ug/Kg | | 91 | 60 - 160 | 13 | 20 |
| Acetone | 250 | 256 | | ug/Kg | | 102 | 30 - 162 | 5 | 30 |
| Benzene | 50.0 | 49.0 | | ug/Kg | | 98 | 70 - 130 | 2 | 20 |
| Bromobenzene | 50.0 | 51.7 | | ug/Kg | | 103 | 70 - 130 | 2 | 20 |
| Bromoform | 50.0 | 59.0 | | ug/Kg | | 118 | 59 - 158 | 5 | 20 |
| Bromomethane | 50.0 | 55.1 | | ug/Kg | | 110 | 59 - 132 | 3 | 20 |
| Carbon disulfide | 50.0 | 54.1 | | ug/Kg | | 108 | 60 - 140 | 4 | 20 |
| Carbon tetrachloride | 50.0 | 55.8 | | ug/Kg | | 112 | 70 - 142 | 0 | 20 |
| Chlorobenzene | 50.0 | 49.7 | | ug/Kg | | 99 | 70 - 130 | 1 | 20 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-211754/6
Matrix: Solid
Analysis Batch: 211754

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chlorobromomethane | 50.0 | 52.4 | | ug/Kg | | 105 | 70 - 130 | 1 | 20 |
| Chlorodibromomethane | 50.0 | 55.1 | | ug/Kg | | 110 | 70 - 146 | 3 | 20 |
| Chloroethane | 50.0 | 52.4 | | ug/Kg | | 105 | 65 - 130 | 3 | 20 |
| Chloroform | 50.0 | 52.7 | | ug/Kg | | 105 | 77 - 127 | 0 | 20 |
| Chloromethane | 50.0 | 55.5 | | ug/Kg | | 111 | 55 - 140 | 5 | 20 |
| cis-1,2-Dichloroethene | 50.0 | 50.6 | | ug/Kg | | 101 | 70 - 138 | 0 | 20 |
| cis-1,3-Dichloropropene | 50.0 | 54.5 | | ug/Kg | | 109 | 68 - 147 | 0 | 20 |
| Dibromomethane | 50.0 | 51.8 | | ug/Kg | | 104 | 70 - 139 | 4 | 20 |
| Dichlorobromomethane | 50.0 | 53.2 | | ug/Kg | | 106 | 70 - 140 | 5 | 20 |
| Dichlorodifluoromethane | 50.0 | 61.6 | | ug/Kg | | 123 | 37 - 158 | 4 | 20 |
| Ethylbenzene | 50.0 | 49.8 | | ug/Kg | | 100 | 80 - 137 | 1 | 20 |
| Ethylene Dibromide | 50.0 | 53.6 | | ug/Kg | | 107 | 70 - 140 | 5 | 20 |
| Hexachlorobutadiene | 50.0 | 56.3 | | ug/Kg | | 113 | 70 - 132 | 1 | 20 |
| Isopropylbenzene | 50.0 | 53.1 | | ug/Kg | | 106 | 70 - 130 | 2 | 20 |
| Methyl tert-butyl ether | 50.0 | 51.3 | | ug/Kg | | 103 | 70 - 144 | 2 | 20 |
| Methylene Chloride | 50.0 | 51.8 | | ug/Kg | | 104 | 70 - 134 | 2 | 20 |
| m-Xylene & p-Xylene | 50.0 | 51.6 | | ug/Kg | | 103 | 70 - 146 | 2 | 20 |
| Naphthalene | 50.0 | 52.4 | | ug/Kg | | 105 | 60 - 147 | 5 | 20 |
| n-Butylbenzene | 50.0 | 52.2 | | ug/Kg | | 104 | 70 - 142 | 1 | 20 |
| N-Propylbenzene | 50.0 | 50.0 | | ug/Kg | | 100 | 70 - 130 | 4 | 20 |
| o-Xylene | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 140 | 2 | 20 |
| sec-Butylbenzene | 50.0 | 50.3 | | ug/Kg | | 101 | 70 - 136 | 3 | 20 |
| Styrene | 50.0 | 54.3 | | ug/Kg | | 109 | 70 - 130 | 1 | 20 |
| tert-Butylbenzene | 50.0 | 50.4 | | ug/Kg | | 101 | 70 - 130 | 3 | 20 |
| Tetrachloroethene | 50.0 | 53.5 | | ug/Kg | | 107 | 70 - 132 | 1 | 20 |
| Toluene | 50.0 | 49.2 | | ug/Kg | | 98 | 75 - 120 | 1 | 20 |
| trans-1,2-Dichloroethene | 50.0 | 52.4 | | ug/Kg | | 105 | 67 - 130 | 5 | 20 |
| trans-1,3-Dichloropropene | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 155 | 2 | 20 |
| Trichloroethene | 50.0 | 52.5 | | ug/Kg | | 105 | 70 - 133 | 1 | 20 |
| Trichlorofluoromethane | 50.0 | 58.3 | | ug/Kg | | 117 | 60 - 140 | 0 | 20 |
| Vinyl acetate | 50.0 | 42.8 | | ug/Kg | | 86 | 38 - 176 | 6 | 20 |
| Vinyl chloride | 50.0 | 60.0 | | ug/Kg | | 120 | 58 - 125 | 3 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 60 - 140 |
| 4-Bromofluorobenzene | 100 | | 45 - 131 |
| Toluene-d8 (Surr) | 99 | | 58 - 140 |

Lab Sample ID: MB 720-211788/5
Matrix: Solid
Analysis Batch: 211788

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,1,1-Trichloroethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,1,2-Trichloroethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-211788/5

Matrix: Solid

Analysis Batch: 211788

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| 1,1-Dichloroethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,1-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,1-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,2,3-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,2,3-Trichloropropane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,2-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,2-Dichloroethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,3-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,3-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 1,4-Dichlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 2,2-Dichloropropane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 2-Butanone (MEK) | ND | | 50 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 2-Chlorotoluene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 2-Hexanone | ND | | 50 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 4-Chlorotoluene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 4-Isopropyltoluene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Acetone | ND | | 50 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Benzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Bromobenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Bromoform | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Bromomethane | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Carbon disulfide | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Carbon tetrachloride | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Chlorobenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Chlorobromomethane | ND | | 20 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Chlorodibromomethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Chloroethane | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Chloroform | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Chloromethane | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| cis-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| cis-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Dibromomethane | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Dichlorobromomethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Dichlorodifluoromethane | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Ethylbenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Ethylene Dibromide | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Hexachlorobutadiene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Isopropylbenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Methyl tert-butyl ether | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Methylene Chloride | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Naphthalene | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| n-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-211788/5
Matrix: Solid
Analysis Batch: 211788

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|-----------|--------------|-----|-----|-------|---|----------|----------------|---------|
| N-Propylbenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| sec-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Styrene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| tert-Butylbenzene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Tetrachloroethene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Toluene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| trans-1,2-Dichloroethene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| trans-1,3-Dichloropropene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Trichloroethene | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Trichlorofluoromethane | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Vinyl acetate | ND | | 20 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Vinyl chloride | ND | | 5.0 | | ug/Kg | | | 10/24/16 09:41 | 1 |
| Xylenes, Total | ND | | 10 | | ug/Kg | | | 10/24/16 09:41 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 60 - 140 | | 10/24/16 09:41 | 1 |
| 4-Bromofluorobenzene | 96 | | 45 - 131 | | 10/24/16 09:41 | 1 |
| Toluene-d8 (Surr) | 94 | | 58 - 140 | | 10/24/16 09:41 | 1 |

Lab Sample ID: LCS 720-211788/6
Matrix: Solid
Analysis Batch: 211788

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,1,1,2-Tetrachloroethane | 50.0 | 59.5 | | ug/Kg | | 119 | 70 - 130 |
| 1,1,1-Trichloroethane | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 130 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 55.7 | | ug/Kg | | 111 | 70 - 146 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 56.4 | | ug/Kg | | 113 | 60 - 140 |
| 1,1,2-Trichloroethane | 50.0 | 56.0 | | ug/Kg | | 112 | 70 - 130 |
| 1,1-Dichloroethane | 50.0 | 52.0 | | ug/Kg | | 104 | 70 - 130 |
| 1,1-Dichloroethene | 50.0 | 55.5 | | ug/Kg | | 111 | 74 - 122 |
| 1,1-Dichloropropene | 50.0 | 53.2 | | ug/Kg | | 106 | 70 - 130 |
| 1,2,3-Trichlorobenzene | 50.0 | 56.6 | | ug/Kg | | 113 | 60 - 140 |
| 1,2,3-Trichloropropane | 50.0 | 56.4 | | ug/Kg | | 113 | 70 - 146 |
| 1,2,4-Trichlorobenzene | 50.0 | 57.3 | | ug/Kg | | 115 | 60 - 140 |
| 1,2,4-Trimethylbenzene | 50.0 | 54.3 | | ug/Kg | | 109 | 70 - 130 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 61.3 | | ug/Kg | | 123 | 60 - 145 |
| 1,2-Dichlorobenzene | 50.0 | 53.6 | | ug/Kg | | 107 | 70 - 130 |
| 1,2-Dichloroethane | 50.0 | 55.5 | | ug/Kg | | 111 | 70 - 130 |
| 1,2-Dichloropropane | 50.0 | 55.8 | | ug/Kg | | 112 | 73 - 127 |
| 1,3,5-Trimethylbenzene | 50.0 | 54.0 | | ug/Kg | | 108 | 70 - 131 |
| 1,3-Dichlorobenzene | 50.0 | 52.6 | | ug/Kg | | 105 | 70 - 131 |
| 1,3-Dichloropropane | 50.0 | 56.0 | | ug/Kg | | 112 | 70 - 140 |
| 1,4-Dichlorobenzene | 50.0 | 52.6 | | ug/Kg | | 105 | 70 - 130 |
| 2,2-Dichloropropane | 50.0 | 59.4 | | ug/Kg | | 119 | 70 - 162 |
| 2-Butanone (MEK) | 250 | 275 | | ug/Kg | | 110 | 59 - 159 |
| 2-Chlorotoluene | 50.0 | 51.4 | | ug/Kg | | 103 | 70 - 138 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211788/6
Matrix: Solid
Analysis Batch: 211788

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 2-Hexanone | 250 | 274 | | ug/Kg | | 110 | 62 - 158 |
| 4-Chlorotoluene | 50.0 | 52.4 | | ug/Kg | | 105 | 70 - 136 |
| 4-Isopropyltoluene | 50.0 | 52.2 | | ug/Kg | | 104 | 70 - 133 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 272 | | ug/Kg | | 109 | 60 - 160 |
| Acetone | 250 | 253 | | ug/Kg | | 101 | 30 - 162 |
| Benzene | 50.0 | 52.4 | | ug/Kg | | 105 | 70 - 130 |
| Bromobenzene | 50.0 | 54.5 | | ug/Kg | | 109 | 70 - 130 |
| Bromoform | 50.0 | 69.3 | | ug/Kg | | 139 | 59 - 158 |
| Bromomethane | 50.0 | 56.6 | | ug/Kg | | 113 | 59 - 132 |
| Carbon disulfide | 50.0 | 56.7 | | ug/Kg | | 113 | 60 - 140 |
| Carbon tetrachloride | 50.0 | 59.5 | | ug/Kg | | 119 | 70 - 142 |
| Chlorobenzene | 50.0 | 53.3 | | ug/Kg | | 107 | 70 - 130 |
| Chlorobromomethane | 50.0 | 57.0 | | ug/Kg | | 114 | 70 - 130 |
| Chlorodibromomethane | 50.0 | 61.5 | | ug/Kg | | 123 | 70 - 146 |
| Chloroethane | 50.0 | 55.0 | | ug/Kg | | 110 | 65 - 130 |
| Chloroform | 50.0 | 56.3 | | ug/Kg | | 113 | 77 - 127 |
| Chloromethane | 50.0 | 56.6 | | ug/Kg | | 113 | 55 - 140 |
| cis-1,2-Dichloroethene | 50.0 | 54.1 | | ug/Kg | | 108 | 70 - 138 |
| cis-1,3-Dichloropropene | 50.0 | 59.0 | | ug/Kg | | 118 | 68 - 147 |
| Dibromomethane | 50.0 | 57.2 | | ug/Kg | | 114 | 70 - 139 |
| Dichlorobromomethane | 50.0 | 57.5 | | ug/Kg | | 115 | 70 - 140 |
| Dichlorodifluoromethane | 50.0 | 61.6 | | ug/Kg | | 123 | 37 - 158 |
| Ethylbenzene | 50.0 | 53.4 | | ug/Kg | | 107 | 80 - 137 |
| Ethylene Dibromide | 50.0 | 59.0 | | ug/Kg | | 118 | 70 - 140 |
| Hexachlorobutadiene | 50.0 | 56.9 | | ug/Kg | | 114 | 70 - 132 |
| Isopropylbenzene | 50.0 | 56.0 | | ug/Kg | | 112 | 70 - 130 |
| Methyl tert-butyl ether | 50.0 | 57.0 | | ug/Kg | | 114 | 70 - 144 |
| Methylene Chloride | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 134 |
| m-Xylene & p-Xylene | 50.0 | 54.9 | | ug/Kg | | 110 | 70 - 146 |
| Naphthalene | 50.0 | 57.6 | | ug/Kg | | 115 | 60 - 147 |
| n-Butylbenzene | 50.0 | 54.1 | | ug/Kg | | 108 | 70 - 142 |
| N-Propylbenzene | 50.0 | 52.2 | | ug/Kg | | 104 | 70 - 130 |
| o-Xylene | 50.0 | 53.8 | | ug/Kg | | 108 | 70 - 140 |
| sec-Butylbenzene | 50.0 | 52.1 | | ug/Kg | | 104 | 70 - 136 |
| Styrene | 50.0 | 58.1 | | ug/Kg | | 116 | 70 - 130 |
| tert-Butylbenzene | 50.0 | 52.3 | | ug/Kg | | 105 | 70 - 130 |
| Tetrachloroethene | 50.0 | 56.7 | | ug/Kg | | 113 | 70 - 132 |
| Toluene | 50.0 | 53.0 | | ug/Kg | | 106 | 75 - 120 |
| trans-1,2-Dichloroethene | 50.0 | 55.2 | | ug/Kg | | 110 | 67 - 130 |
| trans-1,3-Dichloropropene | 50.0 | 58.9 | | ug/Kg | | 118 | 70 - 155 |
| Trichloroethene | 50.0 | 55.8 | | ug/Kg | | 112 | 70 - 133 |
| Trichlorofluoromethane | 50.0 | 61.3 | | ug/Kg | | 123 | 60 - 140 |
| Vinyl acetate | 50.0 | 48.6 | | ug/Kg | | 97 | 38 - 176 |
| Vinyl chloride | 50.0 | 60.8 | | ug/Kg | | 122 | 58 - 125 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 60 - 140 |
| 4-Bromofluorobenzene | 100 | | 45 - 131 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-211788/6
Matrix: Solid
Analysis Batch: 211788

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

| Surrogate | LCS LCS | | Limits |
|-------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Toluene-d8 (Surr) | 98 | | 58 - 140 |

Lab Sample ID: LCSD 720-211788/7
Matrix: Solid
Analysis Batch: 211788

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

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| 1,1,1,2-Tetrachloroethane | 50.0 | 56.7 | | ug/Kg | | 113 | 70 - 130 | 5 | 20 |
| 1,1,1-Trichloroethane | 50.0 | 51.9 | | ug/Kg | | 104 | 70 - 130 | 4 | 20 |
| 1,1,2,2-Tetrachloroethane | 50.0 | 55.0 | | ug/Kg | | 110 | 70 - 146 | 1 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 50.0 | 53.8 | | ug/Kg | | 108 | 60 - 140 | 5 | 20 |
| 1,1,2-Trichloroethane | 50.0 | 54.4 | | ug/Kg | | 109 | 70 - 130 | 3 | 20 |
| 1,1-Dichloroethane | 50.0 | 51.1 | | ug/Kg | | 102 | 70 - 130 | 2 | 20 |
| 1,1-Dichloroethene | 50.0 | 54.0 | | ug/Kg | | 108 | 74 - 122 | 3 | 20 |
| 1,1-Dichloropropene | 50.0 | 51.9 | | ug/Kg | | 104 | 70 - 130 | 3 | 20 |
| 1,2,3-Trichlorobenzene | 50.0 | 57.3 | | ug/Kg | | 115 | 60 - 140 | 1 | 20 |
| 1,2,3-Trichloropropane | 50.0 | 55.0 | | ug/Kg | | 110 | 70 - 146 | 3 | 20 |
| 1,2,4-Trichlorobenzene | 50.0 | 57.6 | | ug/Kg | | 115 | 60 - 140 | 1 | 20 |
| 1,2,4-Trimethylbenzene | 50.0 | 52.9 | | ug/Kg | | 106 | 70 - 130 | 3 | 20 |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 60.9 | | ug/Kg | | 122 | 60 - 145 | 1 | 20 |
| 1,2-Dichlorobenzene | 50.0 | 53.2 | | ug/Kg | | 106 | 70 - 130 | 1 | 20 |
| 1,2-Dichloroethane | 50.0 | 54.7 | | ug/Kg | | 109 | 70 - 130 | 2 | 20 |
| 1,2-Dichloropropane | 50.0 | 54.8 | | ug/Kg | | 110 | 73 - 127 | 2 | 20 |
| 1,3,5-Trimethylbenzene | 50.0 | 52.5 | | ug/Kg | | 105 | 70 - 131 | 3 | 20 |
| 1,3-Dichlorobenzene | 50.0 | 51.4 | | ug/Kg | | 103 | 70 - 131 | 2 | 20 |
| 1,3-Dichloropropane | 50.0 | 54.3 | | ug/Kg | | 109 | 70 - 140 | 3 | 20 |
| 1,4-Dichlorobenzene | 50.0 | 51.8 | | ug/Kg | | 104 | 70 - 130 | 1 | 20 |
| 2,2-Dichloropropane | 50.0 | 56.3 | | ug/Kg | | 113 | 70 - 162 | 5 | 20 |
| 2-Butanone (MEK) | 250 | 265 | | ug/Kg | | 106 | 59 - 159 | 3 | 20 |
| 2-Chlorotoluene | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 138 | 2 | 20 |
| 2-Hexanone | 250 | 266 | | ug/Kg | | 106 | 62 - 158 | 3 | 20 |
| 4-Chlorotoluene | 50.0 | 51.7 | | ug/Kg | | 103 | 70 - 136 | 1 | 20 |
| 4-Isopropyltoluene | 50.0 | 51.0 | | ug/Kg | | 102 | 70 - 133 | 2 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 250 | 267 | | ug/Kg | | 107 | 60 - 160 | 2 | 20 |
| Acetone | 250 | 287 | | ug/Kg | | 115 | 30 - 162 | 13 | 30 |
| Benzene | 50.0 | 51.5 | | ug/Kg | | 103 | 70 - 130 | 2 | 20 |
| Bromobenzene | 50.0 | 53.9 | | ug/Kg | | 108 | 70 - 130 | 1 | 20 |
| Bromoform | 50.0 | 65.2 | | ug/Kg | | 130 | 59 - 158 | 6 | 20 |
| Bromomethane | 50.0 | 56.9 | | ug/Kg | | 114 | 59 - 132 | 0 | 20 |
| Carbon disulfide | 50.0 | 55.1 | | ug/Kg | | 110 | 60 - 140 | 3 | 20 |
| Carbon tetrachloride | 50.0 | 57.7 | | ug/Kg | | 115 | 70 - 142 | 3 | 20 |
| Chlorobenzene | 50.0 | 51.5 | | ug/Kg | | 103 | 70 - 130 | 3 | 20 |
| Chlorobromomethane | 50.0 | 55.5 | | ug/Kg | | 111 | 70 - 130 | 3 | 20 |
| Chlorodibromomethane | 50.0 | 60.0 | | ug/Kg | | 120 | 70 - 146 | 2 | 20 |
| Chloroethane | 50.0 | 53.8 | | ug/Kg | | 108 | 65 - 130 | 2 | 20 |
| Chloroform | 50.0 | 54.9 | | ug/Kg | | 110 | 77 - 127 | 3 | 20 |
| Chloromethane | 50.0 | 56.5 | | ug/Kg | | 113 | 55 - 140 | 0 | 20 |

TestAmerica Pleasanton

QC Sample Results

Client: PES Environmental, Inc.
 Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-211788/7

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 211788

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| cis-1,2-Dichloroethene | 50.0 | 52.8 | | ug/Kg | | 106 | 70 - 138 | 3 | 20 |
| cis-1,3-Dichloropropene | 50.0 | 58.0 | | ug/Kg | | 116 | 68 - 147 | 2 | 20 |
| Dibromomethane | 50.0 | 56.1 | | ug/Kg | | 112 | 70 - 139 | 2 | 20 |
| Dichlorobromomethane | 50.0 | 57.5 | | ug/Kg | | 115 | 70 - 140 | 0 | 20 |
| Dichlorodifluoromethane | 50.0 | 60.2 | | ug/Kg | | 120 | 37 - 158 | 2 | 20 |
| Ethylbenzene | 50.0 | 51.1 | | ug/Kg | | 102 | 80 - 137 | 4 | 20 |
| Ethylene Dibromide | 50.0 | 58.1 | | ug/Kg | | 116 | 70 - 140 | 2 | 20 |
| Hexachlorobutadiene | 50.0 | 55.6 | | ug/Kg | | 111 | 70 - 132 | 2 | 20 |
| Isopropylbenzene | 50.0 | 52.7 | | ug/Kg | | 105 | 70 - 130 | 6 | 20 |
| Methyl tert-butyl ether | 50.0 | 56.2 | | ug/Kg | | 112 | 70 - 144 | 1 | 20 |
| Methylene Chloride | 50.0 | 52.1 | | ug/Kg | | 104 | 70 - 134 | 3 | 20 |
| m-Xylene & p-Xylene | 50.0 | 52.3 | | ug/Kg | | 105 | 70 - 146 | 5 | 20 |
| Naphthalene | 50.0 | 58.2 | | ug/Kg | | 116 | 60 - 147 | 1 | 20 |
| n-Butylbenzene | 50.0 | 52.8 | | ug/Kg | | 106 | 70 - 142 | 2 | 20 |
| N-Propylbenzene | 50.0 | 51.2 | | ug/Kg | | 102 | 70 - 130 | 2 | 20 |
| o-Xylene | 50.0 | 51.2 | | ug/Kg | | 102 | 70 - 140 | 5 | 20 |
| sec-Butylbenzene | 50.0 | 50.9 | | ug/Kg | | 102 | 70 - 136 | 2 | 20 |
| Styrene | 50.0 | 55.6 | | ug/Kg | | 111 | 70 - 130 | 4 | 20 |
| tert-Butylbenzene | 50.0 | 50.7 | | ug/Kg | | 101 | 70 - 130 | 3 | 20 |
| Tetrachloroethene | 50.0 | 54.4 | | ug/Kg | | 109 | 70 - 132 | 4 | 20 |
| Toluene | 50.0 | 51.3 | | ug/Kg | | 103 | 75 - 120 | 3 | 20 |
| trans-1,2-Dichloroethene | 50.0 | 53.5 | | ug/Kg | | 107 | 67 - 130 | 3 | 20 |
| trans-1,3-Dichloropropene | 50.0 | 58.0 | | ug/Kg | | 116 | 70 - 155 | 2 | 20 |
| Trichloroethene | 50.0 | 54.4 | | ug/Kg | | 109 | 70 - 133 | 3 | 20 |
| Trichlorofluoromethane | 50.0 | 60.7 | | ug/Kg | | 121 | 60 - 140 | 1 | 20 |
| Vinyl acetate | 50.0 | 49.1 | | ug/Kg | | 98 | 38 - 176 | 1 | 20 |
| Vinyl chloride | 50.0 | 60.6 | | ug/Kg | | 121 | 58 - 125 | 0 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | LCSD Limits |
|------------------------------|----------------|----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 60 - 140 |
| 4-Bromofluorobenzene | 98 | | 45 - 131 |
| Toluene-d8 (Surr) | 98 | | 58 - 140 |

QC Association Summary

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

GC/MS VOA

Prep Batch: 211726

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 720-75297-1 | PSV1-5-5.5 | Total/NA | Solid | 5035 | |
| 720-75297-3 | PSV2-5-5.5 | Total/NA | Solid | 5035 | |
| 720-75297-4 | PSV2-9.75-10.25 | Total/NA | Solid | 5035 | |
| 720-75297-5 | PSV3-5-5.5 | Total/NA | Solid | 5035 | |
| 720-75297-6 | PSV3-7.5-8 | Total/NA | Solid | 5035 | |
| 720-75297-7 | PSV4-5-5.5 | Total/NA | Solid | 5035 | |

Analysis Batch: 211754

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 720-75297-1 | PSV1-5-5.5 | Total/NA | Solid | 8260B | 211726 |
| 720-75297-3 | PSV2-5-5.5 | Total/NA | Solid | 8260B | 211726 |
| 720-75297-4 | PSV2-9.75-10.25 | Total/NA | Solid | 8260B | 211726 |
| 720-75297-5 | PSV3-5-5.5 | Total/NA | Solid | 8260B | 211726 |
| 720-75297-6 | PSV3-7.5-8 | Total/NA | Solid | 8260B | 211726 |
| 720-75297-7 | PSV4-5-5.5 | Total/NA | Solid | 8260B | 211726 |
| MB 720-211754/4 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 720-211754/5 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 720-211754/6 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

Analysis Batch: 211788

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 720-75297-2 | PSV1-9.75-10.25 | Total/NA | Solid | 8260B | 211814 |
| 720-75297-8 | PSV4-9.75-10.25 | Total/NA | Solid | 8260B | 211814 |
| MB 720-211788/5 | Method Blank | Total/NA | Solid | 8260B | |
| LCS 720-211788/6 | Lab Control Sample | Total/NA | Solid | 8260B | |
| LCSD 720-211788/7 | Lab Control Sample Dup | Total/NA | Solid | 8260B | |

Prep Batch: 211814

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 720-75297-2 | PSV1-9.75-10.25 | Total/NA | Solid | 5035 | |
| 720-75297-8 | PSV4-9.75-10.25 | Total/NA | Solid | 5035 | |

Lab Chronicle

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV1-5-5.5

Date Collected: 10/21/16 00:30

Date Received: 10/21/16 10:15

Lab Sample ID: 720-75297-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211726 | 10/21/16 13:30 | BSY | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211754 | 10/21/16 21:36 | JRM | TAL PLS |

Client Sample ID: PSV1-9.75-10.25

Date Collected: 10/21/16 00:40

Date Received: 10/21/16 10:15

Lab Sample ID: 720-75297-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211814 | 10/21/16 13:30 | JRM | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211788 | 10/24/16 12:41 | JRM | TAL PLS |

Client Sample ID: PSV2-5-5.5

Date Collected: 10/21/16 00:50

Date Received: 10/21/16 10:15

Lab Sample ID: 720-75297-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211726 | 10/21/16 13:30 | BSY | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211754 | 10/21/16 22:36 | JRM | TAL PLS |

Client Sample ID: PSV2-9.75-10.25

Date Collected: 10/21/16 00:55

Date Received: 10/21/16 10:15

Lab Sample ID: 720-75297-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211726 | 10/21/16 13:30 | BSY | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211754 | 10/21/16 23:06 | JRM | TAL PLS |

Client Sample ID: PSV3-5-5.5

Date Collected: 10/21/16 01:15

Date Received: 10/21/16 10:15

Lab Sample ID: 720-75297-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211726 | 10/21/16 13:30 | BSY | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211754 | 10/21/16 23:35 | JRM | TAL PLS |

Client Sample ID: PSV3-7.5-8

Date Collected: 10/21/16 01:25

Date Received: 10/21/16 10:15

Lab Sample ID: 720-75297-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211726 | 10/21/16 13:30 | BSY | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211754 | 10/22/16 00:05 | JRM | TAL PLS |

TestAmerica Pleasanton

Lab Chronicle

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Client Sample ID: PSV4-5-5.5

Lab Sample ID: 720-75297-7

Date Collected: 10/21/16 02:00

Matrix: Solid

Date Received: 10/21/16 10:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211726 | 10/21/16 13:30 | BSY | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211754 | 10/22/16 00:35 | JRM | TAL PLS |

Client Sample ID: PSV4-9.75-10.25

Lab Sample ID: 720-75297-8

Date Collected: 10/21/16 02:15

Matrix: Solid

Date Received: 10/21/16 10:15

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Prep | 5035 | | | 211814 | 10/21/16 13:30 | JRM | TAL PLS |
| Total/NA | Analysis | 8260B | | 1 | 211788 | 10/24/16 12:11 | JRM | TAL PLS |

Laboratory References:

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

Certification Summary

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

Laboratory: TestAmerica Pleasanton

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

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|------------|---------------|------------|------------------|-----------------|
| California | State Program | 9 | 2496 | 01-31-18 |

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Oregon | NELAP | 10 | 4040 | 01-29-17 |

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Method Summary

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

| Method | Method Description | Protocol | Laboratory |
|--------|------------------------------------|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL PLS |

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: PES Environmental, Inc.
Project/Site: 6701 Shellmound St, Emeryville Soil & Wa

TestAmerica Job ID: 720-75297-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 720-75297-1 | PSV1-5-5.5 | Solid | 10/21/16 00:30 | 10/21/16 10:15 |
| 720-75297-2 | PSV1-9.75-10.25 | Solid | 10/21/16 00:40 | 10/21/16 10:15 |
| 720-75297-3 | PSV2-5-5.5 | Solid | 10/21/16 00:50 | 10/21/16 10:15 |
| 720-75297-4 | PSV2-9.75-10.25 | Solid | 10/21/16 00:55 | 10/21/16 10:15 |
| 720-75297-5 | PSV3-5-5.5 | Solid | 10/21/16 01:15 | 10/21/16 10:15 |
| 720-75297-6 | PSV3-7.5-8 | Solid | 10/21/16 01:25 | 10/21/16 10:15 |
| 720-75297-7 | PSV4-5-5.5 | Solid | 10/21/16 02:00 | 10/21/16 10:15 |
| 720-75297-8 | PSV4-9.75-10.25 | Solid | 10/21/16 02:15 | 10/21/16 10:15 |



Login Sample Receipt Checklist

Client: PES Environmental, Inc.

Job Number: 720-75297-1

Login Number: 75297

List Number: 1

Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (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 | |

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6701, 6705, and 6707 SHELLMOUND STREET
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FUEL LEAK CASE NO. RO0000548
GEOTRACKER GLOBAL ID T0600100894**

DECEMBER 21, 2016

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