

ROCKWOOD CHRISTIE LLC  
c/o TMG PARTNERS  
100 Bush Street, Suite 2600  
San Francisco, CA 94104  
(415) 772-5900

June 28, 2011

241.082.02.002

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

Attention: Mr. Mark Detterman

**Transmittal**  
**Results of Soil and Groundwater Investigation,**  
**and Request for Case Closure**  
**Former Lerer Brothers Transmission**  
**6340 Christie Avenue**  
**Fuel Leak Case No. RO0000057**  
**Geotracker Global ID T0600191821**

Dear Mr. Detterman:

Submitted herewith for your review is the document: *Results of Soil and Groundwater Investigation, and Request for Case Closure, 6340 Christie Avenue*, prepared by PES Environmental, Inc.

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

Very truly yours,

**Rockwood Christie LLC**



Denise Pinkston

Authorized Representative

Email: [dpinkston@tmgpartners.com](mailto:dpinkston@tmgpartners.com)

cc: Robert Creps (PES Environmental)  
William Mast (PES Environmental)  
Nicholas Targ, Esq. (Holland & Knight)

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9:21 am, Jul 01, 2011

Alameda County  
Environmental Health



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Attention: Mr. Mark Detterman, P.G.

**Subject: Results of Soil and Groundwater Investigation,  
and Request for Case Closure  
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Geotracker Global ID T0600191821**

Dear Mr. Detterman:

This *Results of Soil and Groundwater Investigation, and Recommendation for Case Closure* (Report) has been prepared by PES Environmental, Inc. (PES) on behalf of Rockwood Christie LLC (Rockwood Christie), the owner of the property located at 6340 Christie Avenue, in Emeryville, California (the site; Plate 1). This Report provides a summary and discussion of the results of soil and groundwater investigation in the vicinity of the former underground storage tank (UST) removed in 1988 from the subject property. The investigation results presented herein are a subset of a broader scale investigation of the 6340 and 6390 Christie Avenue properties performed as a preliminary step of site construction and redevelopment.

Specifically, the recent March 2011 site-wide investigation was conducted in accordance with the: (1) *Final Remediation Work Plan*<sup>1</sup> (RWP) that was approved by the City of Emeryville on February 1, 2011; and (2) *Work Plan, Pre-Excavation Soil and Groundwater Investigation and Preliminary Soil Characterization, Proposed 64th and Christie Residential Building, 64th Street & Christie Avenue, Emeryville, California*, dated January 5, 2011. The City of Emeryville provides lead agency oversight for the environmental investigation and remediation process described in the RWP, as set forth in the May 1996 Memorandum of Understanding between it, the Regional Water Quality Control Board, and the Department of Toxic Substances Control, as amended on December 22, 1998.

This Report has been prepared and organized to summarize relevant information from the site-wide investigation to respond to issues raised in letters from Alameda County Environmental Health (ACEH) to Rockwood Christie, dated April 3, 2009, and to the California State Water Resources Control Board (SWRCB), dated January 28, 2011. Copies of these and other pertinent correspondences are provided in Appendix A.

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<sup>1</sup> PES Environmental, Inc. 2011. *Final Remediation Work Plan, Proposed 64<sup>th</sup> and Christie Residential Building, 64<sup>th</sup> Street & Christie Avenue, Emeryville, California*. February 3.

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## **BACKGROUND INFORMATION**

The proposed 64<sup>th</sup> and Christie Residential Building redevelopment covers two assessor's parcels (49-1492-8 [6340 Christie Avenue, the site], and 49-1492-6-1 [6390 Christie Avenue]. Construction of the project will entail excavating soil over the entire footprint of both parcels to depths ranging from 11 to 15 feet below ground surface (bgs)<sup>2</sup>. A site development/grading plan is provided in Appendix B. Additional soil excavation will be performed around the perimeter of the building for the purpose of landscaping and sidewalks. At the southern property boundary near the former UST, additional soil excavation will occur for landscaping and to place structural soil at the building perimeter and beneath a paved sidewalk (refer to grading plan). This excavation will extend about 12.5 feet on to the adjacent property, and will be approximately 4 feet in depth for nearly the full width of the southern building perimeter.

The 2,000-gallon gasoline UST was removed from the site in 1988. Little documentation is available about the removal, and no samples were reportedly collected from the tank excavation. Various investigations were performed at the site between 1998 and 2003 by Aqua Science Engineers, Inc. (ASE) to evaluate impacts from the former UST. Additional sampling was conducted in 2004 by PES as part of environmental due diligence during Rockwood Christie's acquisition of the property. The results of these investigations indicated the sporadic presence of heavy-fraction petroleum hydrocarbons (i.e., diesel and motor oil), light-fraction petroleum hydrocarbons (gasoline and its constituents), and metals (primarily lead) in the subsurface<sup>3</sup>. Some of the detected chemicals appeared to be attributable to residual contamination associated with the former gasoline underground storage tank at the southeast corner of the property. Other chemicals appear to be related to fill placed at the site when the area was reclaimed from San Francisco Bay in the 1930s to 1940s, or to regional contamination associated with offsite sources.

The objectives of the soil and groundwater investigation conducted in March 2011 were to: (1) collect additional soil samples to provide current data to facilitate estimation of likely costs associated with soil management during site redevelopment (i.e., excavation and construction, and soil disposal activities), as well as provide data that aid in delineation of residual petroleum hydrocarbon impacts to soil in the vicinity of the former UST; and (2) collect groundwater data to evaluate current conditions in shallow groundwater. The results of the March 2011 investigation are documented in the report: *Results of Pre-Excavation Investigation and Preliminary Soil Characterization, Proposed 64th and Christie Residential Building, 64th Street & Christie Avenue, Emeryville, California*, dated June 2, 2011. A copy of this report,

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<sup>2</sup> In general, the excavation will be deeper (15 feet bgs) in the northern and southern portions of the building footprint, and shallower (11 feet bgs) in the center along an east-west axis. The excavation will extend to about 15 feet bgs at the former underground tank location.

<sup>3</sup> PES Environmental, Inc. *Phase I Environmental Site Assessment, 6340 Christie Avenue, Emeryville, California*. September 19, 2008.

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including details about sampling methods and site-wide results, is provided on CD-ROM in Appendix C.

For illustrative purposes, all of the soil and groundwater sampling locations during all phases of investigation at the site are shown on Plate 2. The remainder of this Report focuses on site conditions pertaining to the former tank.

### **SOURCE AREA DELINEATION AND REMOVAL UNDER APPROVED RWP**

Historical investigations conducted in 1998 and 1999 by ASE at the former UST identified up to 1,400 milligrams per kilogram (mg/kg) total petroleum hydrocarbons quantified as gasoline (TPHg), 3,600 mg/kg TPH quantified as motor oil (TPHmo), and 0.011 mg/kg benzene in soil at depths ranging up to 7 feet bgs. The vertical extent of soil affected with petroleum hydrocarbons was not defined at that time.

During the recent March 2011 investigation, eight soil borings (SB-24 through SB-31) were advanced in the general vicinity of the former tank (i.e., the source area). Five of these borings (SB-26, and SB-28 through SB-31) were advanced to 20 feet bgs<sup>4</sup>. Boring SB-29 was placed at the estimated location of the former tank. Samples were collected at four depth intervals from each boring (approximately 1.5 to 2.5 feet bgs, 6.5 to 8.5 feet bgs, 12.5 feet bgs, and 15.5 to 20 feet bgs) and analyzed for TPH quantified as diesel (TPHd), TPHmo, TPHg and benzene, toluene, ethylbenzene, and xylenes (BTEX).

The analytical data from the recent soil borings in the source area are presented in Table 1 and shown on Plate 3. A summary is provided below:

- TPHg – Detected at concentrations ranging from 0.34 mg/kg (SB-28-1.5) to 9,700 mg/kg (SB-29-7.5). Samples from 2.5 to 12.5 feet bgs from borings SB-24, SB-29, SB-30, and SB-31, and the sample from 16 feet bgs at SB-31 exceeded the Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) of 83 mg/kg<sup>5</sup>. With the exception of the latter sample, soil represented by these samples will be removed during site excavation as part of redevelopment and construction activities (refer to the RWP);
- Benzene – Detected in three samples from 1.5 to 12.5 feet bgs at concentrations ranging from 15 to 1,700 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ ). Benzene was not detected

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<sup>4</sup> Borings SB-24, SB-25, SB-27, and SB-32 were also advanced in the general area of the former UST; however, soil samples from these borings were collected for waste characterization evaluation purposes and had a limited suite of analyses performed. Applicable data are shown on Plate 3.

<sup>5</sup> ESL for Shallow Soil (residential land use) where groundwater is a current or potential drinking water source (Table A-1).

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at borings SB-28, SB-29, and SB-31, and not detected in samples from these five borings below 12.5 feet bgs;

- Toluene – Detected in two samples from 12.5 feet bgs at concentrations of 3.8 and 9.6  $\mu\text{g}/\text{kg}$ . Toluene was not detected at borings SB-29, SB-30, and SB-31, and not detected in samples from these five borings below 12.5 feet bgs;
- Ethylbenzene - Detected in seven samples from 1.5 to 12.5 feet bgs at concentrations ranging from 5.3 to 75,000  $\mu\text{g}/\text{kg}$ . Ethylbenzene was not detected at borings SB-28 and SB-31, and not detected in samples from these five borings below 12.5 feet bgs;
- Xylenes - Detected in seven samples from 1.5 to 12.5 feet bgs at concentrations ranging from 4.4 to 18,000  $\mu\text{g}/\text{kg}$ . Xylenes were not detected in samples below 12.5 feet bgs;
- TPHd – Detected in all soil samples except for one, at concentrations ranging from 5.7 to 920  $\text{mg}/\text{kg}$ . The majority of the TPHd detections were characterized by the analytical laboratory as having a chromatographic pattern that does not resemble the diesel standard. This quantification may be caused from overlap with gasoline-range hydrocarbons or from biogenic material, as was observed in groundwater samples (see below); and
- TPHmo – Detected in all soil samples except for one, at concentrations ranging from 9.0 to 1,000  $\text{mg}/\text{kg}$ .

As shown on Cross-section A-A' (Plate 4), these data indicate that the vertical extent of petroleum hydrocarbons in the source area has been delineated and elevated concentrations generally do not extend below 12.5 feet bgs. Based on the planned excavation depth of 15 feet bgs in the former tank vicinity, most or all of the soil in the source area that is affected with petroleum hydrocarbons from prior tank releases will be removed in accordance with the approved RWP.

Heavy-fraction petroleum hydrocarbons (i.e., TPHd and TPHmo) were detected in the majority of the soil samples, with concentrations ranging from 5.7 to 920  $\text{mg}/\text{kg}$  and from 9.0 to 1,000  $\text{mg}/\text{kg}$ , respectively. These values are comparable with data collected over the entire redevelopment site (Appendix C). There is no obvious trend of TPHd and TPHmo concentrations in proximity to the former UST. Rather, the observed TPHd and TPHmo concentrations are indicative of: (1) fill that was placed over native bay muds to reclaim the land from San Francisco Bay, or (2) off-site, upgradient heavy-fraction petroleum hydrocarbons (for those samples collected below the water table).

In addition, to prepare landscaping areas and provide structural support for exterior sidewalks adjacent to the south side of the building perimeter, a 12.5-foot wide and 4-foot deep area of soil will be excavated and replaced as an engineered fill with clean imported material (refer to

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Plate 4 and Appendix B). This perimeter area excavation will facilitate removal of petroleum residuals in the area south of the former UST. The excavation sidewall below 4 feet bgs in this area is expected to be accessible during the shallower building excavation work while placing shoring and, as such, affected soil along the sidewall of the excavation below 4 feet bgs can be removed if present.

## **EVALUATION OF GROUNDWATER FLOW DIRECTION**

Groundwater flow direction data pertinent to the site has been collected from three information sources over a period from 1981 to the present. These data include:

- **Emery Bay Marketplace/Nielsen Trucking Groundwater Monitoring** - Groundwater water-level data was collected over an extended period (1981 through 1996) from twenty-four (24) monitoring wells located on the Emery Bay Marketplace<sup>6</sup>. The Marketplace property is located adjacent to the east and south of the subject site. The northernmost portion of the Marketplace site was also occupied in the 1960s through early 1980s by Nielsen Freight Lines Company.

Groundwater monitoring wells were initially installed in about 1981 when underground fuel tanks were removed from the former Nielsen facility (located adjacent to and east of the subject site). Additional wells were installed across the Marketplace property in the late 1980s (for a total of 24 wells) during redevelopment of Emery Bay Marketplace. Following redevelopment, thirteen (13) of the wells were monitored on a quarterly basis for an additional seven-year period under ACEH direction (August 1989 through October 1996)<sup>7</sup>.

The many years of monitoring of the Marketplace/Nielsen property demonstrated that the predominant groundwater flow direction is westerly, towards San Francisco Bay as expected. Although contouring of water-level data suggested localized flow directions may vary slightly, ranging from northwesterly to southwesterly, this is likely due to the variable soils and fill across the Marketplace site<sup>8</sup>.

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<sup>6</sup> EmeryBay Marketplace was redeveloped in the 1980's, with investigation and soil remediation performed with oversight by Alameda County Department of Health Services. After redevelopment, in about 1995 California DTSC became lead agency for the site. A "no further action" determination was made, and land-use controls were placed on the site in a deed covenant. Documents are available on EnviroStor, at: [http://www.envirostor.dtsc.ca.gov/public/profile\\_report.asp?global\\_id=01290021](http://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=01290021)

<sup>7</sup> McLaren Hart performed the groundwater monitoring at Emery Bay Marketplace from May 1987 through April 1993. PES performed the monitoring from July 1993 through October 1996.

<sup>8</sup> The Emery Bay Marketplace property, like the 6340 and 6390 Christie Avenue properties, is comprised of land reclaimed by filling of San Francisco Bay prior to about 1940.

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- **Proposed 64<sup>th</sup> and Christie Building Groundwater Investigation** - As part of the 2011 investigation performed under the RWP, six (6) temporary monitoring wells were installed across the 6340 and 6390 Christie properties. The well locations are shown on Plate 2. Water-level measurements were obtained from the wells and top-of-casing elevations were surveyed. Depth to water observed in these wells ranged from 3.95 to 6.10 feet below the top of the well casing. The contoured potentiometric surface using these data (refer to Plate 5) indicates that groundwater flow is to the west-northwest. This is consistent with the generally-westerly groundwater flow in the vicinity of the site, towards San Francisco Bay.
- **Lerer Site Groundwater Monitoring in 1999** - Three groundwater monitoring wells (MW-1 through MW-3) were installed at 6340 Christie during investigations in January 1999 by ASE, approximately 10 years after the diesel tank had been removed. Four rounds of water-level measurements were made in these wells between January and October 1999. Based on the observed groundwater elevations, groundwater in the immediate vicinity was interpreted by ASE to flow south to southeast. Depth to groundwater at the time ranged from about 3.8 to 5.1 feet below the top of the well casing.

The south to southeast flow direction indicated during the 1999 monitoring was an anomaly. It is inconsistent with prior and recent monitoring data as discussed above, and also is inconsistent with the expected flow direction towards San Francisco Bay. Of note is that the 1999 flow determinations were based on a spatially-limited three-point planar solution to groundwater flow (i.e., three water-surface elevations). By comparison, flow direction on Marketplace was determined by contouring at least 13 (or more) monitoring wells over many years, and the March 2011 groundwater flow determination was based upon contouring water-level data from 6 wells across the entire 6340 and 6390 Christie properties.

A rudimentary three-point solution can result in anomalous results, not representative of actual flow direction, if water levels in just one or more of the wells are affected by unusual or inconsistent aquifer conditions. Possible causes of anomalous groundwater levels at wells monitored in 1999 include: (1) well MW-1 had unusual conditions in that it was placed very near (and potentially at the edge) of the backfilled tank excavation; and (2) borehole lithology logs for Wells MW-1 and MW-2 indicated the presence of debris fill at depths of 7 to 10 feet bgs in MW-1, and 7 to 12 feet bgs in MW-2. No debris fill was noted in the log for MW-3. The debris fill layer in MW-2 was surrounded above and below by low-permeability fine-grained soil (silty clay above and clayey silt below) that may have confined water in the saturated debris fill. One or both these conditions could have resulted in water levels at MW-1 to be slightly lower (relative to MW-2 and/or MW-3) compared to what they would be in the absence of these localized conditions, resulting in the anomalous southerly flow interpretation.

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Accordingly, the groundwater flow direction data collected at Emery Bay Marketplace, and the recent March 2011 site-wide investigation, are concluded to be most representative of both local and regional groundwater flow conditions. The 1999 flow direction data are considered anomalous and unreliable and, as such, should be not be used for site characterization purposes.

### **DELINEATION OF PETROLEUM HYDROCARBONS IN GROUNDWATER**

The 1998/99 investigations identified up to 620,000 micrograms per liter ( $\mu\text{g/L}$ ) TPHg and 1,200  $\mu\text{g/L}$  benzene in groundwater in the vicinity of the former UST. Additionally, TPHd at concentrations up to 49,000  $\mu\text{g/L}$  was detected on the west side of the 6340 building and up to 22,000  $\mu\text{g/L}$  on the east side. The lateral extent of affected groundwater was not previously defined.

However, to support a case closure determination, the recent March 2011 investigation has (1) sufficiently delineated current dissolved-phase concentrations in groundwater, and (2) determined groundwater flow direction (as described above).

Six temporary wells (GW-8 through GW-13) were installed and sampled across the redevelopment site, including near the former UST, during the 2011 site investigation. The results of the groundwater testing indicate the following:

- TPHg - Detected in samples from GW-11, GW-12, and GW-13 at concentrations ranging from 0.15 to 0.42 milligrams per liter (mg/L). These concentrations slightly exceed the RWQCB ESL of 0.10 mg/L for drinking water;
- BTEX – Toluene, ethylbenzene, and xylenes were detected at concentrations ranging from 0.5 to 9.9  $\mu\text{g/L}$ . Benzene was not detected in the groundwater samples. No detections exceeded the ESL;
- TPHd – Detected in samples from all six wells at concentrations ranging from 1.0 to 10 mg/L. These detections were characterized by the analytical laboratory as having a chromatographic pattern that does not resemble the standard. This quantification is likely caused by naturally-occurring biogenic material. After silica gel cleanup, TPHd was detected in samples from GW-11, GW-12, and GW-13 at concentrations ranging from 0.12 to 0.13 milligrams per liter (equivalent to 120 to 130  $\mu\text{g/L}$ ). These three detections only slightly exceed the ESL of 0.10 mg/L; and
- TPHmo - Detected in samples from all six wells at concentrations ranging from 1.4 to 11 mg/L. After silica gel cleanup, TPHmo was non-detect in all six samples, indicating the likely presence of biogenic material.



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The extent of groundwater impacts from the former tank has been defined through groundwater sampling and analyses conducted by ASE, and the March 2011 investigation described herein. There are no significant concentrations of aromatic BTEX compounds remaining on the site, and most of the TPHmo and TPHd detected in the site wells in March 2011 were shown to be biogenic. Groundwater in the southern portion of the site (GW-11, GW-12 and GW-13) contains low concentrations of light- to medium-fraction petroleum hydrocarbons (i.e., TPHg and TPHd) that may be residuals from prior releases at the former UST area. The wide spread nature of the heavy-fraction hydrocarbons (i.e., TPHmo) in groundwater appears to represent low-concentration regional levels that are likely attributable to historical fill beneath the site or offsite, up-gradient sources. The extent of remaining petroleum residuals dissolved in groundwater is defined to the north and northwest by Wells GW-8, GW-9 and GW-10. The extent of impact to the south (i.e., upgradient) was delineated by data from off-site Borings BH-F and BH-G, sampled in 1999.

Although several of the detected petroleum hydrocarbons slightly exceed their respective ESLs, with removal of sources the dissolved-phase concentrations are expected to attenuate over time to below ESLs.

Finally, groundwater at the site has elevated conductivity. Field measurements collected during well sampling identified conductivity levels ranging from approximately 1,160 to 11,600 microSiemens per centimeter ( $\mu\text{S}/\text{cm}$ ) (Appendix C). The conductivity levels were above the secondary MCL (900  $\mu\text{S}/\text{cm}$ ) for all samples, and above the upper secondary MCL (1,600  $\mu\text{S}/\text{cm}$ ) for five out of six groundwater samples. Two of the samples were above the RWQCB limit of 5,000  $\mu\text{S}/\text{cm}$  for waters potentially suitable for municipal supplies. It is therefore unlikely that groundwater at the site would be considered drinking water or could be used as such. In addition, City of Emeryville Ordinance No. 07-006 prohibits the use of groundwater for water supply purposes.

## **PREFERENTIAL PATHWAY ASSESSMENT**

Based on review of available utility maps at the site, there is one underground utility in the vicinity of the former UST. A storm drain catch basin is present just southeast of the site, and drains to the southwest (Plate 3). The inverts of the pipelines connecting to this catch basin were inspected by PES on June 1, 2011 and observed to be approximately 2.8 to 3.1 feet bgs. Based on the approximately 4- to 6-foot depth to groundwater at the site (see above), it is unlikely that this utility trench has acted as a preferential pathway to migration of releases at the former UST. This is shown also shown on cross-section A-A' (Plate 4).

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A preliminary well survey assessment was also conducted. Based on PES' review of nearby well survey results<sup>9</sup>, and given the generally westerly groundwater gradient, there are no significant conduits for vertical contaminant transfer located downgradient of the subject site. PES has also requested an independent well records search from the California Department of Water Resources (DWR) and Alameda County Public Works database; any significant contrary results from review of these records will be presented in an addendum to this report.

## **SOIL VAPOR SAMPLING**

Site investigations in 2004 identified the presence of up to 5.5  $\mu\text{g/L}$  benzene and 830  $\mu\text{g/L}$  TPHg in soil vapor samples collected at approximately 3 feet bgs at location SG-4, located approximately 20 feet northwest of the former UST location. Accordingly, the RWP identified vapor intrusion as a potential exposure pathway requiring mitigation. The RWP specifies that mitigation of this pathway will include removal of soil containing VOCs via excavation for building construction. Also, as described in the RWP, the new building will be intrinsically-safe with respect to vapor intrusion, with occupied spaces constructed above a concrete podium over a mechanically-ventilated sub-grade parking garage. The building design also includes the use of sub-grade waterproofing barrier systems, which will also prevent infiltration of soil vapors, if present.

As described above, site redevelopment will include removal of soil beneath the building footprint to depths ranging from 11 to 15 feet bgs. No vadose zone soil will remain beneath the future building constructed on the subject property, and as such, no exposure pathways to future building occupants will remain.

## **CONCLUSIONS**

The results of the recent soil and groundwater investigation, along with the results from historical investigation and monitoring activities, indicate the following:

- Depth-to-water measurements and corresponding groundwater elevations collected during the 2011 investigation indicate: (1) the direction of groundwater flow at the site is to the west-northwest, (2) the direction of groundwater flow is consistent with expected westerly regional flow toward San Francisco Bay as indicated during many years of monitoring at the adjacent Marketplace property to the east and south, and (3) groundwater flow direction data collected in 1999 are considered anomalous and unreliable for site characterization purposes;

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<sup>9</sup> Stellar Environmental Solutions, Inc. 2009. *Preferential Pathway and Indoor Air Survey Report, EmeryBay Condo Phase I Parking Garage, 6400 Christie Avenue, Emeryville, California.* April 3.

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- The vertical extent of petroleum hydrocarbons in soil in the vicinity of the former UST at concentrations exceeding ESLs is generally limited to depths above 12.5 feet bgs. Soil excavation during redevelopment will extend to between 11 and 15 feet bgs across the entire site, and to 15 feet bgs at the former tank location source area. Soil will be removed to approximately 4 feet bgs for landscaping and structural purposes on the south side of the building. As such, most or all of the source area soil at the site will be removed during redevelopment;
- Concentrations of dissolved-phase petroleum hydrocarbons in groundwater are slightly above (TPHg and TPHd) or below (BTEX and TPHmo) ESLs for drinking water. However, in the absence of ongoing petroleum sources to groundwater, dissolved-phase concentrations will continue to attenuate over time to below ESLs. Conductivity levels suggest that groundwater at the site would not be considered a potential drinking water source, and use of groundwater in Emeryville is prohibited by City Ordinance No. 07-006;
- No preferential groundwater flow pathways were identified in the vicinity of the former UST; and
- After the building excavation is completed, no vadose zone will remain at the site. The new building will be a podium-style intrinsically-safe design, with occupied spaces located above a mechanically-ventilated garage. Therefore vapor intrusion will not be a potential exposure pathway to future users of the site building.

## **RECOMMENDATIONS**

We trust this report satisfies ACEH's recommendation for appropriate investigation of site data gaps, as articulated in its January 28, 2011, correspondence to the SWRCB. On the basis of the investigation results contained herein which indicate the localized and stable nature of the groundwater plume and the absence of significant risk to human health and the environment, and the discussion supporting that the direction of the groundwater gradient at the site is consistent with the regional flow direction (i.e., westerly toward San Francisco Bay), no further investigation is recommended. Accordingly, on behalf of Rockwood Christie, we request ACEH's consideration of appropriate closure proceedings for the fuel leak case located at 6340 Christie Avenue.

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Please call either of the undersigned if you have any questions.

Yours very truly,

**PES ENVIRONMENTAL, INC.**

William W. Mast  
Associate Engineer

Robert S. Creps, P.E.  
Principal Engineer



- Attachments: Table 1 – Summary of Analytical Results for Soil – Petroleum Hydrocarbons, VOCs, SOCs, Vicinity of UST  
Table 2 – Summary of Analytical Results for Groundwater – Petroleum Hydrocarbons and VOCs  
Plate 1 – Site Location Map  
Plate 2 – Soil and Groundwater Sampling Locations  
Plate 3 – Soil Analytical Results Near Former UST  
Plate 4 – Cross-Section A-A'  
Plate 5 – Groundwater Potentiometric Surface Map  
Appendix A – Agency Correspondence  
Appendix B – Site Development/Grading Plan  
Appendix C – Site Investigation Report (on CD-ROM)

cc: Denise Pinkston – Rockwood Christie LLC

**TABLES**

**Table 1**  
**Summary of Analytical Results for Soil - Petroleum Hydrocarbons, VOCs, and SVOCs**  
**Vicinity of Former UST**  
**6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Sample Depth (ft bgs)	Sample Location	Date	TPHmo (mg/Kg)	TPHd (mg/Kg)	TPHg (mg/Kg)	VOCs													SVOCs					
							Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	Xylenes (µg/Kg)	Acetone (µg/Kg)	2-Ba (µg/Kg)	n-Bb (µg/Kg)	sec-Bb (µg/Kg)	tert-Bb (µg/Kg)	Pbz (µg/Kg)	Naph (µg/Kg)	Isopb (µg/Kg)	1,2,4-TMB (µg/Kg)	1,3,5-TMB (µg/Kg)	Fluor (µg/Kg)	Naph (µg/Kg)	2-Mnaph (µg/Kg)	Phen (µg/Kg)	Pyrene (µg/Kg)
SB-24-1.5	1.5	SB-24	3/16/2011	850	740 Y	560 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-24-5.5	5.5	SB-24	3/16/2011	510	74 Y	1.2 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-24-12.0	12.0	SB-24	3/16/2011	990	260 Y	0.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-25-2.5	2.5	SB-25	3/16/2011	430	120 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-25-7.5	7.5	SB-25	3/16/2011	500	110 Y	< 0.18	< 4.5	< 4.5	< 4.5	< 4.5	< 18	< 9.1	< 4.5	< 4.5	< 4.5	< 4.5	13	< 4.5	< 4.5	< 4.5	< 67	150	< 67	< 67	74
SB-25-12.5	12.5	SB-25	3/16/2011	1,000	340 Y	0.53 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-26-1.5	1.5	SB-26	3/17/2011	640	170 Y	4.3 Y	41	< 3.9	5.3	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-26-6.5	6.5	SB-26	3/17/2011	270	95 Y	1.5 Y	< 4.5	< 4.5	< 4.5	< 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-26-12.5	12.5	SB-26	3/17/2011	280	69 Y	5.2 Y	15	9.6	10	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-26-20.0	20.0	SB-26	3/17/2011	80	44 Y	0.43 Y	< 4.1	< 4.1	< 4.1	< 4.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-27-2.5	2.5	SB-27	3/16/2011	94	16 Y	0.90 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-27-7.5	7.5	SB-27	3/16/2011	290	430 Y	0.46 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-27-12.5	12.5	SB-27	3/16/2011	79	30 Y	4.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-28-1.5	1.5	SB-28	3/17/2011	690	170 Y	0.34 Y	< 3.9	< 3.9	< 3.9	< 3.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-28-7.5	7.5	SB-28	3/17/2011	< 5.0	< 1.0	< 0.14	< 4.3	< 4.3	< 4.3	< 4.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-28-12.5	12.5	SB-28	3/17/2011	880	380 Y	3.2 Y	< 3.8	3.8	< 3.8	< 3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-28-16.0	16.0	SB-28	3/17/2011	11	6.7 Y	< 0.16	< 3.9	< 3.9	< 3.9	< 3.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-29-2.5	2.5	SB-29	3/16/2011	910	920 Y	710 Y	< 250	< 250	2,000	< 250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-29-7.5	7.5	SB-29	3/16/2011	550	580 Y	9,700 Y	< 6,400	< 6,400	75,000	18,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-29-12.5	12.5	SB-29	3/16/2011	400	260 Y	2.6 Y	< 5.3	< 5.3	< 5.3	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-29-16.0	16.0	SB-29	3/16/2011	9.0	5.7 Y	< 0.18	< 6.2	< 6.2	< 6.2	< 6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-30-2.0	2.0	SB-30	3/17/2011	49	49	740 Y	1,700	< 270	6,200	5,150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-30-8.5	8.5	SB-30	3/17/2011	720	280 Y	680 Y	< 220	< 220	1,300	3,900	< 860	< 430	5,000	1,800	720	1,500	880	1,000	5,000	1,800	< 66	6,000	7,600	63	< 66
SB-30-12.5	12.5	SB-30	3/17/2011	180	120 Y	46 Y	< 4.1	< 4.1	39	145	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-30-15.5	15.5	SB-30	3/17/2011	69	53 Y	1.3 Y	< 4.3	< 4.3	< 4.3	< 4.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-31-2.5	2.5	SB-31	3/16/2011	330	69 Y	< 0.17	< 4.5	< 4.5	< 4.5	< 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-31-7.5	7.5	SB-31	3/16/2011	430	170 Y	6.2 Y	< 3.8	< 3.8	< 3.8	< 3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-31-12.5	12.5	SB-31	3/16/2011	1,000	640 Y	1,600 Y	< 220	< 220	< 220	< 220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-31-16.0	16.0	SB-31	3/16/2011	690	360 Y	460 Y	< 500	< 500	< 500	< 500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Soil ESL<sup>(1)</sup></b>				370	83	83	44	2,900	2,300	2,300	500	--	--	--	--	--	--	--	--	40,000	1,300	250	11,000	85,000	
<b>Soil ESL<sup>(2)</sup></b>				5,000	83	83	44	7,900	3,300	2,300	500	--	--	--	--	--	--	--	--	60,000	3,400	250	11,000	85,000	

**Notes:**

VOCs = Volatile Organic Compounds  
SVOCs = Semi-volatile Organic Compounds  
mg/kg = milligrams per kilogram  
µg/kg = micrograms per kilogram  
ft bgs = Feet below ground surface  
< 0.15 = Not detected at or above the indicated laboratory reporting limit  
ND = Not detected at or above the indicated laboratory reporting limit  
-- = Not analyzed or not applicable  
Y = Sample exhibits chromatographic pattern that does not resemble standard.  
TPHmo = Total petroleum hydrocarbons quantified as motor oil  
TPHd = Total petroleum hydrocarbons quantified as diesel  
TPHg = Total petroleum hydrocarbons quantified as gasoline  
= Sample interval will be removed as part of soil excavation during site redevelopment.

2-Ba = 2-Butanone  
n-Bb = n-Butylbenzene  
sec-Bb = sec-Butylbenzene  
tert-Bb = tert-Butylbenzene  
Pbz = Propylbenzene  
Isopb = Isopropylbenzene  
1,2,4-Tmb = 1,2,4-Trimethylbenzene  
1,3,5-Tmb = 1,3,5-Trimethylbenzene  
Fluor = Fluoranthene  
Naph = Naphthalene  
2-Mnaph = 2-Methylnaphthalene  
Phen = Phenanthrene

(1) California Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for Residential Use - Shallow Soils (<3 meters below ground surface) (Table A).  
(2) California Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for Residential Use - Deep Soils (>3 meters below ground surface) (Table C).

**Table 2**  
**Summary of Analytical Results for Groundwater - Petroleum Hydrocarbons and VOCs**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Date	TPHmo (mg/L)	TPHd (mg/L)	TPHg (mg/L)	VOCs												
					Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	sec-Bb (µg/L)	p-Iso T (µg/L)	Isopb (µg/L)	n-Bb (µg/L)	Pbz (µg/L)	Naph (µg/L)	1,2,4-Tmb (µg/L)	1,3,5-Tmb (µg/L)
GW-8	3/16/2011	< 0.3 / <b>1.4</b>	< 0.050 / <b>1.0 Y</b>	< 0.050	< 0.5	< 0.5	< 0.5	< 0.5	<b>2.6</b>	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
GW-9	3/16/2011	< 0.3 / <b>3.9</b>	< 0.050 / <b>3.6 Y</b>	< 0.050	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<b>0.8</b>	< 0.5
GW-10	3/15/2011	< 0.3 / <b>4.8</b>	< 0.050 / <b>4.9 Y</b>	< 0.050	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<b>0.6</b>	< 0.5
GW-11	3/15/2011	< 0.3 / <b>6.6</b>	<b>0.13 Y / 5.9 Y</b>	<b>0.18</b>	< 0.5	<b>2.0</b>	< 0.5	<b>0.6</b>	< 0.5	<b>0.6</b>	< 0.5	< 0.5	< 0.5	<b>0.7</b>	<b>3.1</b>	<b>1.9</b>	< 0.5
GW-12	3/15/2011	< 0.3 / <b>11.0</b>	<b>0.13 Y / 10 Y</b>	<b>0.150 Y</b>	< 0.5	< 0.5	< 0.5	<b>0.5</b>	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<b>1.1</b>	< 0.5
GW-13	3/15/2011	< 0.3 / <b>3.5</b>	<b>0.12 Y / 3.3 Y</b>	<b>0.420</b>	< 0.5	<b>1.5</b>	<b>1.0</b>	<b>9.9</b>	< 0.5	<b>1.5</b>	<b>2.5</b>	<b>0.7</b>	<b>2.2</b>	<b>1.8</b>	< 0.5	<b>36.0</b>	<b>9.4</b>
TB-1	3/15/2011	--	--	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
<b>Groundwater ESL <sup>(1)</sup></b>		0.10	0.10	0.10	1	40	30	20	5	--	--	--	--	--	17	--	--

**Notes:**

mg/L = Milligrams per liter

µg/L = Micrograms per liter

Y = Sample exhibits chromatographic pattern which does not resemble standard

< 300 / **1,400** = Indicates sample results with / without silica gel cleanup

&lt; 0.5 = Not detected at or above the indicated laboratory reporting limit

-- = Not Analyzed

TPHmo = Total petroleum hydrocarbons quantified as motor oil

TPHd = Total petroleum hydrocarbons quantified as diesel

TPHg = Total petroleum hydrocarbons quantified as gasoline

MTBE = Methyl Tert-Butyl Ether

sec-Bb = sec-Butylbenzene

p-Iso T = para-Isopropyl Toluene

Isopb = Isopropylbenzene

n-Bb = n-Butylbenzene

Pbz = Propyl Benzene

Naph = Naphthalene

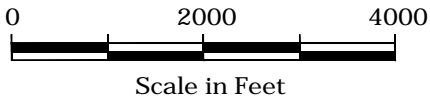
1,2,4-Tmb = 1,2,4-Trimethylbenzene

1,3,5-Tmb = 1,3,5-Trimethylbenzene

(1) California Regional Water Quality Control Board Environmental Screening Level (ESL) for Groundwater that is a current or potential drinking water resource (Table F-1a; May 2008).

**PLATES**





U.S.G.S. Topo Map - Oakland West, California, 7.5-minute quadrangle. 1997



**Site Location Map**  
 Results of Soil and Groundwater Investigation  
 6340 and 6390 Christie Avenue  
 Emeryville, California

PLATE  
**1**



SB-26				
Depth	1.5	6.5	12.5	20.0
TPHmo	640	270	280	80
TPHd	170 Y	95 Y	69 Y	44 Y
TPHg	4.3 Y	1.5 Y	5.2 Y	0.43 Y
B	41	< 4.5	15	< 4.1
T	< 3.9	< 4.5	9.6	< 4.1
E	5.3	< 4.5	10	< 4.1
X	4.4	< 4.5	31	< 4.1

SB-28				
Depth	1.5	7.5	12.5	16.0
TPHmo	690	< 5.0	880	11
TPHd	170 Y	< 1.0	380 Y	6.7 Y
TPHg	0.34 Y	< 0.14	3.2 Y	< 0.16
B	< 3.9	< 4.3	< 3.8	< 3.9
T	< 3.9	< 4.3	3.8	< 3.9
E	< 3.9	< 4.3	< 3.8	< 3.9
X	< 3.9	< 4.3	< 3.8	< 3.9

SB-29				
Depth	2.5	7.5	12.5	16.0
TPHmo	910	550	400	9.0
TPHd	920 Y	580 Y	260 Y	5.7 Y
TPHg	710 Y	9,700 Y	2.6 Y	< 0.18
B	< 250	< 6,400	< 5.3	< 6.2
T	< 250	< 6,400	< 5.3	< 6.2
E	2,000	75,000	< 5.3	< 6.2
X	< 250	18,000	8.2	< 6.2

SB-25			
Depth	2.5	7.5	12.5
TPHmo	430	500	1,000
TPHd	120 Y	110 Y	340 Y
TPHg	< 0.17	< 0.18	0.53 Y
B	--	< 4.5	--
T	--	< 4.5	--
E	--	< 4.5	--
X	--	< 4.5	--

SB-27			
Depth	2.5	7.5	12.5
TPHmo	94	290	79
TPHd	16 Y	430 Y	30 Y
TPHg	0.90 Y	0.46 Y	4.7
B	--	--	--
T	--	--	--
E	--	--	--
X	--	--	--

SB-30				
Depth	2.0	8.5	12.5	15.5
TPHmo	49	720	180	69
TPHd	49	280 Y	120 Y	53 Y
TPHg	740 Y	680 Y	46 Y	1.3 Y
B	1,700	< 220	< 4.1	< 4.3
T	< 270	< 220	< 4.1	< 4.3
E	6,200	1,300	39	< 4.3
X	5,150	3,900	145	< 4.3

SB-24			
Depth	1.5	5.5	12.0
TPHmo	850	510	990
TPHd	740 Y	74 Y	260 Y
TPHg	560 Y	1.2 Y	0.79
B	--	--	--
T	--	--	--
E	--	--	--
X	--	--	--

SB-32			
Depth	2.5	7.5	11.0
TPHmo	670	220	3,300
TPHd	80 Y	93 Y	3,100 Y
TPHg	< 0.17	3.1 Y	2.3 Y
B	--	--	--
T	--	--	--
E	--	--	--
X	--	--	--

SB-31				
Depth	2.5	7.5	12.5	16.0
TPHmo	330	430	1,000	690
TPHd	69 Y	170 Y	640 Y	360 Y
TPHg	< 0.17	6.2 Y	1,600 Y	460 Y
B	< 4.5	< 3.8	< 220	< 500
T	< 4.5	< 3.8	< 220	< 500
E	< 4.5	< 3.8	< 220	< 500
X	< 4.5	< 3.8	< 220	< 500

- Explanation**
- Approximate Parcel Boundaries
  - Existing Building
  - Storm Drain Pipeline
  - Storm Drain Inlet
  - SB-7 PES Soil Boring Location, March 2011
  - GW-8 PES Temporary Monitoring Well Location, March 2011
  - MW-1 Abandoned Groundwater Monitoring Well Location
  - GW-1 PES Grab Groundwater Sampling Location, December 2004
  - BH-A Aqua Science Engineers (ASE) Grab Groundwater Sampling Location, October 1998
  - SB-1/GW-1 PES Soil and Grab Groundwater Sampling Location, December 2004
  - Cross-Section Location

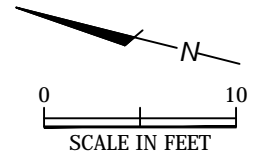
TPHg = Total petroleum hydrocarbons quantified as gasoline (mg/kg)  
 TPHd = Total petroleum hydrocarbons quantified as diesel (mg/kg)  
 TPHmo = Total petroleum hydrocarbons quantified as motor oil (mg/kg)

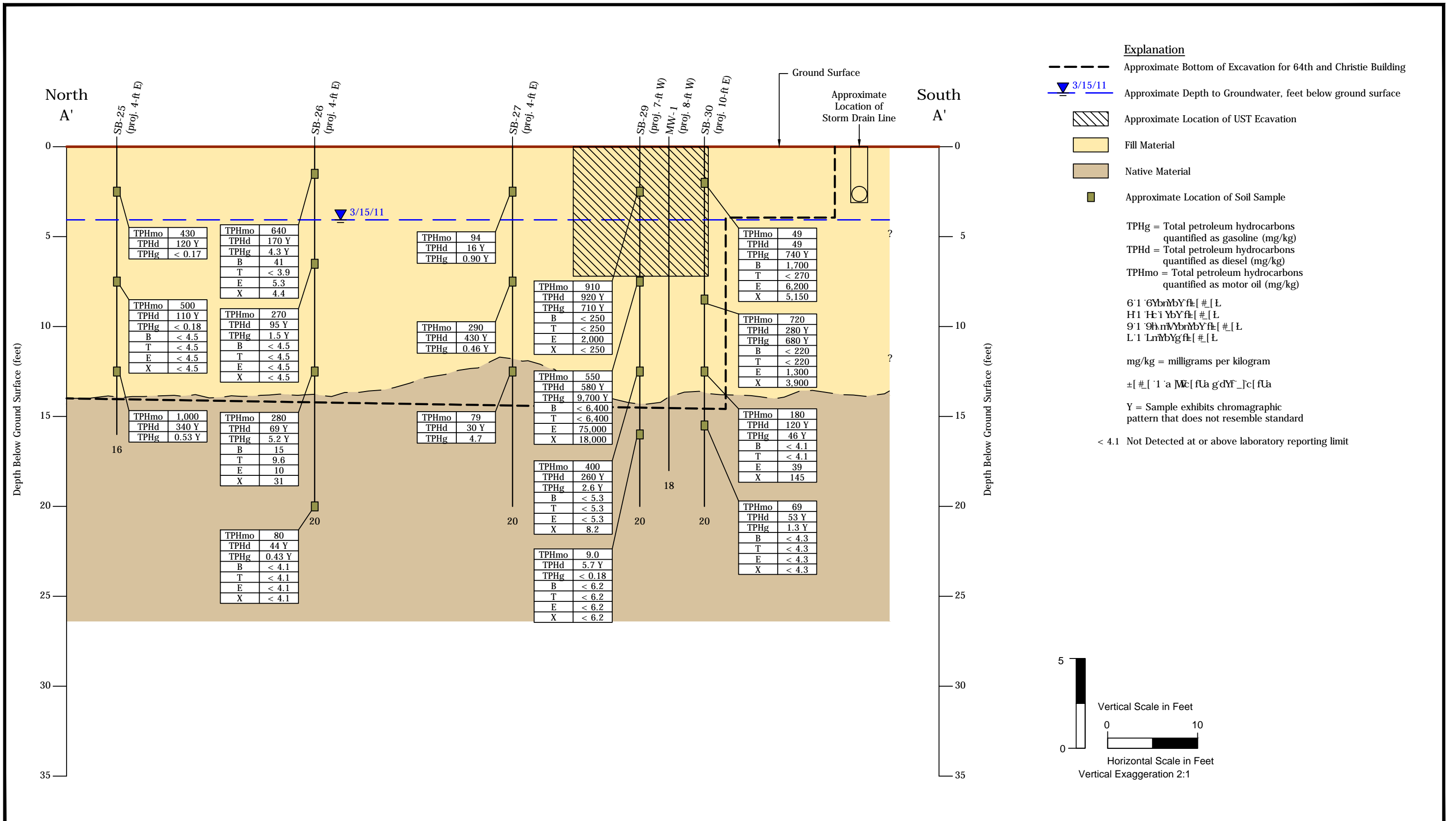
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 9 1 9h.nYbrYbYf# [ # ] L  
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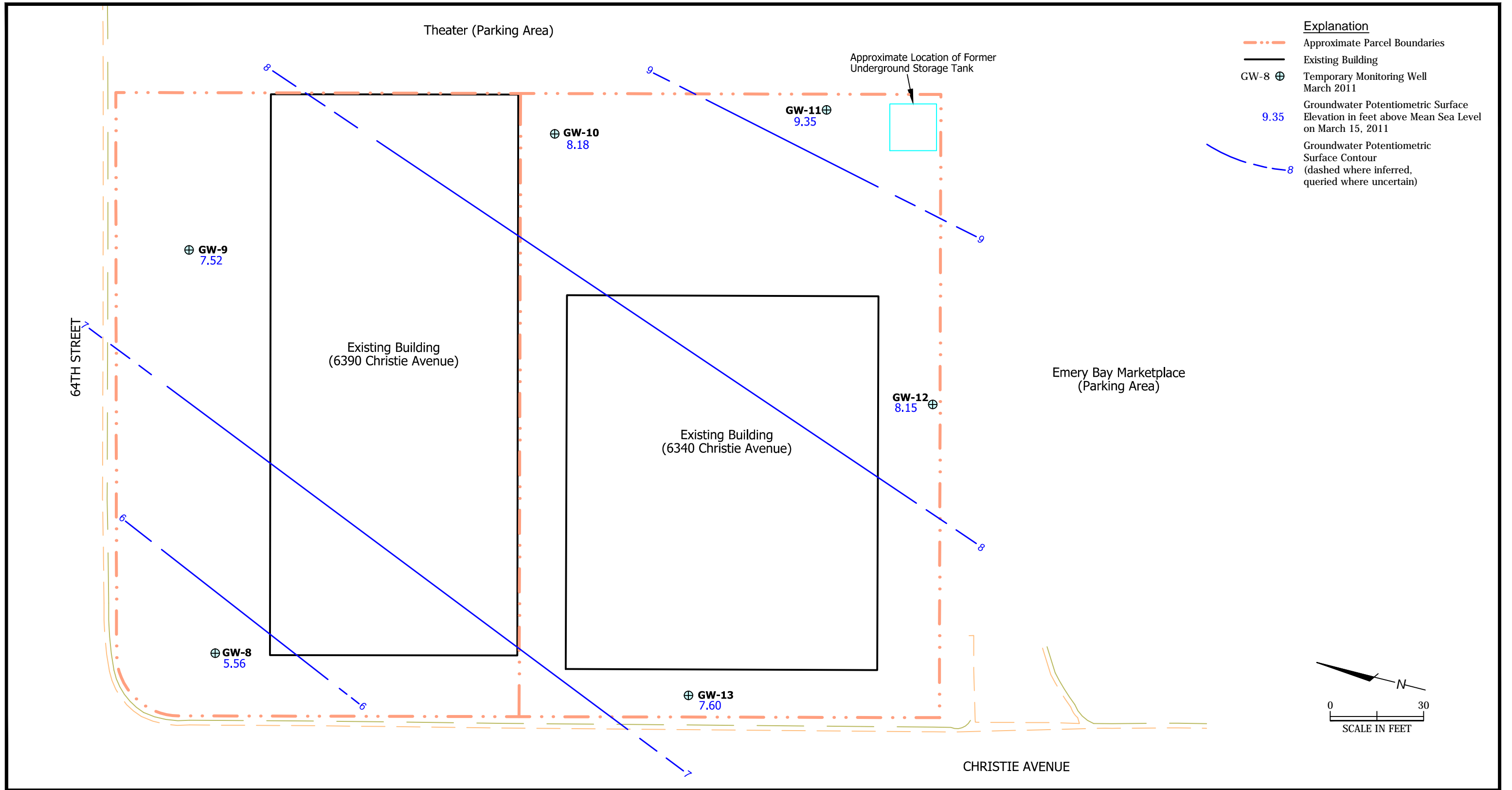
mg/kg = milligrams per kilogram

± [ # ] ' 1 ' a [ # ] fUa g'dYf' ] c [ fUa

Y = Sample exhibits chromatographic pattern that does not resemble standard







**APPENDIX A**

**AGENCY CORRESPONDENCE**



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

April 3, 2009

Denise Pinkston  
Rockwood Christie LLC c/o TMG Partners  
100 Bush St., 26<sup>th</sup> Floor  
San Francisco, CA 94104

Richard and Beverly Gold Trust  
Lerer Brothers Transmission  
P.O. Box 117820  
Burlingame, CA 94011-7820

Subject: Fuel Leak Case No. RO0000057 and Geotracker Global ID T0600191821, Lerer Brothers Transmission, 6340 Christie Avenue, Emeryville, CA 94608

Dear Ms Pinkston and Mr. and Mrs. Gold:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the site including the *Case Closure Request* submitted by Aqua Science Engineers, Inc. on December 22, 2003 and *Phase II Environmental Subsurface Investigation Results Gold and Wolfman Properties* prepared by PES Environmental, Inc. on January 21, 2005. A review of the site data indicates that up to 620,000 micrograms per liter ( $\mu\text{g/L}$ ) total petroleum hydrocarbons as gasoline (TPHg) and 1,200  $\mu\text{g/L}$  benzene were detected in boring BH-A in October 1998. These values are indicative of free product levels. Wells were subsequently installed, monitored and destroyed with no indication of ACEH approval for the well destruction. A Phase II report dated January 21, 2005 was submitted for this property and the adjacent property that indicates that contamination is also present in the areas sampled inside the building, west of the building and to the north of the former UST location. A maximum concentration of 49,000  $\mu\text{g/L}$  total petroleum hydrocarbons as diesel (TPHd) was detected in groundwater collected on the east side of the building and soil vapor samples indicated up to 830  $\mu\text{g/L}$  TPH, 5.5  $\mu\text{g/L}$  benzene, and 85% methane. These concentrations exceed the commercial environmental screening level (ESL) for these constituents.

ACEH has reviewed the case and has determined that additional work is needed to progress toward closure. ACEH requests that you perform the work requested below, address the following technical comments, and submit the report requested below.

#### **TECHNICAL COMMENTS**

1. **Source Area(s) Soil Definition** – Up to 1,400 mg/kg TPHg, 3,600 TPH as motor oil (TPHmo) and <6.2 mg/kg benzene were detected between 6 and 7 feet below ground surface (bgs), the maximum depth explored at this site, leaving the vertical extent of contamination undefined. Please submit a work plan to define the vertical extent of soil contamination in the work plan requested below.

2. **Dissolved Contaminant Plume** – Up to 620,000 µg/L TPHg and 1,200 µg/L benzene, which is indicative of free product, was detected at the former underground storage tanks (USTs). Wells were installed near the former USTs but were not located adjacent to or downgradient of the former borings. Please evaluate the current concentrations in the immediate area of BH-A and lateral extent in the area of the former USTs. In addition, up to 49,000 µg/L TPHd was detected on the west side of the building and 22,000 µg/L TPHd was detected on the east side of the building and the plume is not defined nor has the source of the diesel been located. Please locate the diesel source and evaluate the extent of diesel contamination. Submit your proposal in the work plan requested below.
3. **Soil Vapor Sampling** – Up to 5.5 µg/L benzene and 830 µg/L TPH were detected in soil vapor samples exceeding the environmental screening level. Sufficient vapor samples were not collected from the former UST area which had the maximum contamination. In addition, the soil vapor sampling indicates that methane is present beneath the building at elevated concentrations. ACEH requests that you collect additional samples to evaluate the vapor intrusion pathway in the former UST area and evaluate the source of the methane. Please submit your proposal in the work plan requested below.
4. **Regional Groundwater Flow Direction** – The ground water flow direction reported in your quarterly monitoring reports was predominantly to the south/southeast and appears anomalous when compared to the general regional flow direction in the vicinity. Nearby sites have reported flow directions to the northwest. Please include a concise narrative discussion of the regional hydrogeologic setting. Include a list of technical references you reviewed and evaluate and include a discussion on whether your groundwater flow direction obtained at the site was accurate.
5. **Base Maps** – Please create one base map using an aerial photograph and include all USTs, dispensers, previous and new boring and well locations on the same map.
6. **Preferential Pathway Study** – The purpose of the preferential pathway study is to locate potential migration pathways and conduits and determine the probability of the NAPL and/or plume encountering preferential pathways and conduits that could spread contamination. We request that you perform a preferential pathway study that details the potential migration pathways and potential conduits (wells, utilities, pipelines, etc.) for vertical and lateral migration that may be present in the vicinity of the site.

Discuss your analysis and interpretation of the results of the preferential pathway study (including the well survey and utility survey requested below) and report your results in the report requested below. The results of your study shall contain all information required by California Code of Regulations, Title 23, Division 3, Chapter 16, §2654(b).

a. Utility Survey

An evaluation of all utility lines and trenches (including sewers, storm drains, pipelines, trench backfill, etc.) within and near the site and plume area(s) is required as part of your study. Please include maps and cross-sections illustrating the location and depth of all utility lines and trenches within and near the site and plume areas(s) as part of your study.



b. Well Survey

A well survey was requested by ACEH in our October 2, 2006 correspondence. Please only evaluate the area within a 1,000-foot radius of the site and submit this information by the due date requested below.

**LANDOWNER NOTIFICATION REQUIREMENTS**

Pursuant to California Health & Safety Code Section 25297.15, the active or primary responsible party for a fuel leak case must inform all current property owners of the site of cleanup actions or requests for closure. Furthermore, ACEH may not consider any cleanup proposals or requests for case closure without assurance that this notification requirement has been met. Additionally, the active or primary responsible party is required to forward to ACEH a complete mailing list of all record fee title holders to the site.

At this time we require that you submit an updated and complete mailing list of all record fee title owners of the site by the date requested below, which states, at a minimum, the following:

A. *In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:*

- OR -

B. *In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that I am the sole landowner for the above site.*

*(Note: Complete item A if there are multiple site landowners. If you are the sole site landowner, skip item A and complete item B.)*

In the future, for you to meet these requirements when submitting cleanup proposals or requests for case closure, ACEH requires that you:

1. Notify all current record owners of fee title to the site of any cleanup proposals or requests for case closure;
2. Submit a letter to ACEH which certifies that the notification requirement in 25297.15(a) of the Health and Safety Code has been met;
3. Forward to ACEH a copy of your complete mailing list of all record fee title holders to the site; and
4. Update your mailing list of all record fee titleholders, and repeat the process outlined above prior to submittal of any additional *Corrective Action Plan* or your *Request for Case Closure*.

Your written certification to ACEH (Item 2 above) must state, at a minimum, the following:

A. *In accordance with Section 25297.15(a) of the Health & Safety Code, I, (name of primary responsible party), certify that I have notified all responsible landowners of the enclosed proposed action. (Check space for applicable proposed action(s)):*

*cleanup proposal (Corrective Action Plan)*  
 *request for case closure*

local agency intention to make a determination that no further action is required  
 local agency intention to issue a closure letter

- OR -

*B. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (name of primary responsible party), certify that I am the sole landowner for the above site.*

*(Note: Complete item A if there are multiple site landowners. If you are the sole site landowner, skip item A and complete item B.)*

### **REQUEST FOR INFORMATION**

ACEH's case file for the subject site contains only the reports located on our website at <http://www.acgov.org/aceh/index.htm>. You are requested to submit copies of all other reports, data, and correspondence related to environmental investigations for this property (including Phase 1 reports, the complete Phase II report with lab data and any and all other environmental reports and data not already on our website) by the date requested below.

### **TECHNICAL REPORT REQUEST**

Please submit technical reports to Alameda County Environmental Health (Attention: Barbara Jakub), according to the schedule presented below:

- **May 4, 2009** – Landowner Notification and additional reports
- **June 3, 2009** – Work Plan

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

### **ELECTRONIC SUBMITTAL OF REPORTS**

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other

data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/electronic\\_submittal/report\\_rqmts.shtml](http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml)).

#### **PERJURY STATEMENT**

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### **PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS**

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### **UNDERGROUND STORAGE TANK CLEANUP FUND**

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### **AGENCY OVERSIGHT**

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Ms. Pinkston and Mr. and Mrs. Gold  
RO0000057  
April 3, 2009, Page 6

If you have any questions, please call me at (510) 639-1287 or send me an electronic mail message at [barbara.jakub@acgov.org](mailto:barbara.jakub@acgov.org).

Sincerely,

A handwritten signature in black ink that reads "Barbara J. Jakub". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Barbara J. Jakub, P.E.  
Hazardous Materials Specialist

Enclosures: ACEH Electronic Report Upload (ftp) Instructions

cc: William Mash, PES Environmental, Inc., 1682 Novato Blvd., Suite 100, Novato, CA 94947  
Donna Drogos, ACEH  
Barbara Jakub, ACEH  
File

<b>Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)</b>	<b>ISSUE DATE:</b> July 5, 2005
	<b>REVISION DATE:</b> March 27, 2009
	<b>PREVIOUS REVISIONS:</b> December 16, 2005, October 31, 2005
<b>SECTION:</b> Miscellaneous Administrative Topics & Procedures	<b>SUBJECT:</b> Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

#### REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:  
RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

#### Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

#### Submission Instructions

- 1) Obtain User Name and Password:
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org)
    - Or
    - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
  - b) In the subject line of your request, be sure to include "**ftp PASSWORD REQUEST**" and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
    - (i) Note: Netscape and Firefox browsers will not open the FTP site.
  - b) Click on File, then on Login As.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to [dehloptoxic@acgov.org](mailto:dehloptoxic@acgov.org) notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.



April 20, 2009

**241.062.01.005**

Alameda County  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Attention: Ms. Barbara Jakub

**Subject: Fuel Leak Case No. RO0000057 and Geotracker  
Global ID T0600191821  
Former Lerer Brothers Transmission  
6340 Christie Avenue  
Emeryville, California**

Dear Ms. Jakub:

We are in receipt of your letter of April 3, 2009, addressed to Denise Pinkston and the Richard and Beverly Gold Trust, regarding Fuel Leak Case No. RO0000057 and Geotracker Global ID T0600191821. Your letter responds to our request of November 17, 2008, requesting case closure for the removed gasoline underground storage tank associated with the former Lerer Brothers Transmission facility located at 6340 Christie Avenue in Emeryville, California ("Subject Site"). On behalf of Rockwood Christie LLC, the sole site owner, PES Environmental, Inc. (PES) has prepared this letter to provide the following additional reports and the landowner notification information, as you requested.

In addition to the information you requested, we also want to bring your attention to the forthcoming remediation of the Subject Site and adjacent area. This work will be conducted under the City of Emeryville's oversight in consultation with the Department of Toxic Substances Control (DTSC) and the San Francisco Bay Regional Water Quality Control Board (RWQCB). We believe that the cleanup will address the concerns that you raised, and we would be pleased to discuss the work with you in the context of bringing closure to the Subject Site.

### **Additional Reports**

As requested, we are submitting two recent environmental documents that are not presently included on the Alameda County Environmental Cleanup Oversight Program's website. These documents establish the cleanup plan for an area, including the Subject Site that will be remediated under the oversight of the City of Emeryville in consultation with the DTSC and the RWQCB, as discussed above. This remedial work precedes, and is part of, overall redevelopment of the area into a Platinum LEED certified Neighborhood Development.

**Ms. Barbara Jakub**  
**April 20, 2009**  
**Page 2**

The environmental documents include:

- *Draft Remediation Work Plan, Proposed 64th and Christie Building, 6340 and 6390 Christie Avenue, Emeryville, California*, prepared by PES Environmental, Inc., and dated October 21, 2008; and
- *Conditional Approval of Remediation Work Plan 64th Street and Christie Avenue, Emeryville, California*, by the City of Emeryville in a letter dated October 22, 2008.

The planned remedial work provides for the excavation and off-site disposal of soils impacted by the historical underground storage tank, as well as removal and off-site disposal of other contaminated soil. As requested, we will upload these documents to the Alameda County Environmental Cleanup Oversight Program's FTP site.

**Landowner Notification**

As directed by your letter, we provide the following landowner certification: In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site: Rockwood Christie LLC, c/o TMG Partners, 100 Bush Street, 26<sup>th</sup> Floor, San Francisco, California, 94104.

Again, we would be pleased to discuss the forthcoming remediation work with you in the context of bringing closure to the Subject Site, and I will contact you this coming week. In advance, please do not hesitate to call me if you have any questions.

Very truly yours,

**PES ENVIRONMENTAL, INC.**



William W. Mast, P.G.  
Associate Engineer

cc: Ms. Denise Pinkston – Rockwood Christie LLC  
Ms. Donna Drogos – ACEH  
Mr. Ignacio Dayrit – City of Emeryville



Linda S. Adams  
Secretary for  
Environmental Protection

# State Water Resources Control Board

## Division of Financial Assistance

1001 I Street • Sacramento, California 95814  
P.O. Box 944212 • Sacramento, California • 94244-2120  
(916) 341-5660 FAX (916) 341-5806 ♦ www.waterboards.ca.gov/cwphome/ustcf



Arnold Schwarzenegger  
Governor

## USTCF 5-YEAR REVIEW SUMMARY

### Agency Information

Agency Name: Alameda County LOP	Address: 1131 Harbor Bay Parkway, Alameda, CA 94502-6577
Agency Caseworker: Barbara Jakub	

### Case Information

Case No: 57	Global ID: T0600191821
Site Name: Lerer Brothers Transmission	Site Address: 6340 Christie Avenue, Emeryville, CA 94608
Responsible Party: Lerer Bros. Attn: Mr. Robert Gold, DBA Gold Truck Parts, Inc.	Address: P.O. Box 117820, Burlingame, CA 94011-7820
USTCF Claim No.: 13874	Number of Years Case Open: 12 Years
USTCF Expenditures to Date: \$21,534	

### Tank Information

Tank No.	Size in Gallons	Contents	Closed in Place/ Removed/Active ?	Date
1	2,000	gasoline	Removed	1988

### Release Information

- Source of Release: UST System
- Date of Release: The reported date of the release is October 1998.
- Affected Media: Soil and groundwater.

### Site Information

- GW Basin: East Bay Plain
- Beneficial Uses: Municipal and domestic supply
- Land Use Designation: Commercial
- Distance to Nearest Supply Well: According to data available in GeoTracker, there are no water supply wells within 1/2 mile of the Site.
- Minimum Groundwater Depth: 3.86 feet below ground surface (bgs) at monitoring well MW-3.
- Maximum Groundwater Depth: 5.10 feet bgs at monitoring well MW-1.
- Groundwater Flow Direction: Predominately to the southeast with an average gradient of 0.011 feet/foot.
- Soil Types: The Site is underlain by low permeability sandy clays and sandy silt mixtures.
- Maximum Depth Sampled: 6.0 feet bgs.



**Monitoring Well Information**

Well Designation	Date Installed	Screen Interval (feet bgs)	Most Recent DTW (feet bgs) (December 1999)
MW-1	1998	Destroyed May 2000	5.10
MW-2	1998	Destroyed May 2000	4.48
MW-3	1998	Destroyed May 2000	4.18

NA: Not Available

**Petroleum Hydrocarbon Constituent Concentration**

Contaminant	Soil (mg/kg)		Water (µg/L)		WQOs (µg/L)
	Maximum	Latest 2004	Maximum	Latest (1999)	
TPHg	1,400	0.077	2,000/620,000*	2,000	--
TPH-d	<6.3	<6.3	49,000*	NA	
TPH-mo	NA	3,600	7,400*	NA	
Benzene	0.011	<0.0054	72/1,200*	72	1
Toluene	25	<0.005	180/4,900*	10	300
Ethylbenzene	13	<0.0054	100/16,000*	92	700
Xylenes	27	<0.011	220/4,900*	220	1,750
MTBE	<6.2	<0.0054	<5.0/21*	<5.0	5
TBA	NA	NA	NA	NA	12
1,2-DCA	NA	NA	NA	NA	<0.5

NA: Not Analyzed, Not Applicable or Data Not Available

mg/kg: milligrams per kilogram, parts per million

µg/L: micrograms per liter, parts per billion

WQOs: Water Quality Objectives

\* Samples collected from monitoring wells listed first. Grab groundwater collected from boreholes used for screening level analysis (72/1,200\*).

**Site Description:** The Site is located at the corner of 64<sup>th</sup> Street and Christie Avenue in the City of Emeryville, CA. The Site is bounded by the Bay Center Apartments on the north across 64<sup>th</sup> Street, a theater on the east, a parking lot for the Emery Marketplace on the south, and the Avenue 64 multi-family residential development of the east across Christy.

**Site History/Assessments**

In 1931 the Site was a tidal flat. By 1947 the Site had been filled, but no development had occurred until 1966. After development in the mid-1960's the property was used as industrial warehouses and Lerer Brothers Transmission Service from 1980 through 1998. Other portions of the property have housed a tool warehouse, Sybase (1989 to 1994), and inter-Tel Technologies (1994 to present) along with various businesses including a photo lab, an advertising firm, Dictaphone and a software developer.

Soil and groundwater investigation activities were conducted from 1988 through 1999 pertaining to the former UST at 6340 Christie. Three monitoring wells were installed and monitored through 1999 and then destroyed in 2000. Contamination appears to be limited to discrete areas that are planned to be excavated/mitigated with future development.

### Remediation Summary

- Free Product: None reported in the files reviewed.
- Soil Excavation: None reported in the files reviewed.
- In-Situ Soil Remediation: None reported in the files reviewed.
- Groundwater Remediation: None reported in the files reviewed.

### General Site Conditions

- Geology and Hydrogeology: Based on the results of investigations performed in the site vicinity, soils in the area consist primarily of clayey and silty sand fill material overlying native organic rich Bay Mud. Significant concentrations of methane have been reported in soil vapor samples which are consistent with numerous other locations around the Emeryville area.
- Estimate of Hydrocarbon Mass in Soil: Not reported in the files reviewed.
- Groundwater Trends: There five groundwater monitoring events that occurred in 1999 for this Site 11 years ago.

### Sensitive Receptor Survey

No water supply wells within a 2,000 foot radius of the Site. Drinking water at and near the Site is currently supplied by the East Bay Municipal Utility District.

### Risk Evaluation

No risk assessment was available in the files reviewed.

### Recommendation

The UST Fund staff has completed a 5-Year Review of this Site and offer these recommendations for LOP consideration.

The UST Fund staff recommends this claim be considered for low risk closure upon completion of the planned construction for the following reasons:

- Petroleum hydrocarbon affected soil appears to be limited to shallow small areas (<6.0 feet bgs) of the Site. The planned construction will excavate to a depth of 7.0 feet bgs which will remove all documented contaminated soil.
- Naturally occurring methane mitigation measures designed into the future construction mitigate any chance vapor intrusion. This design includes a intrinsically-safe podium-style building with a water/vapor barrier beneath two levels of parking then one level of small businesses with the upper five floors planned as residential.

Original signed by 10/13/2010

Pat G. Cullen, P.G.      Date  
Water Resources Control Engineer  
Technical Review Unit  
(916) 341-5735

Original signed by 10/13/2010

Robert Trommer, CHg      Date  
Senior Engineering Geologist  
Chief, Technical Review Unit  
(916) 341-5684

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

ALEX BRISCOE, Director



ENVIRONMENTAL HEALTH DEPARTMENT  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
(510) 567-6700  
FAX (510) 337-9335

January 28, 2011

Pat Cullen  
State Water Resources Control Board  
Division of Financial Assistance  
1001 I Street  
Sacramento, CA 95814  
(Sent via E-mail to:  
[PCullen@waterboards.ca.gov](mailto:PCullen@waterboards.ca.gov))

Robert Trommer  
State Water Resources Control Board  
Division of Financial Assistance  
1001 I Street  
Sacramento, CA 95814  
(Sent via E-mail to  
[RTrommer@waterboards.ca.gov](mailto:RTrommer@waterboards.ca.gov))

Subject: Response to UST Cleanup Fund Five Year Review for Fuel Leak Case No. RO0000057 and GeoTracker Global ID T0600191821, Lerer Brothers Transmission, 6340 Christie Avenue, Emeryville, CA 94608

Dear Mr. Cullen & Mr. Trommer:

Alameda County Environmental Health (ACEH) does not appear to have received the Preliminary 5-Year Review Summary Reports dated October 13, 2010 from the Underground Storage Tank Cleanup Fund (Fund) for the site listed below. This letter is an effort to document our response. The Summary Report represents the Preliminary 5-year review of ACEH Local Oversight Program cases by the Fund. The Fund correspondence requests that ACEH respond to the Fund correspondence within 45 days of the date of the letter. Responses to the Fund recommendations for the site, are presented below. ACEH staff has reviewed the contents of the correspondence in the context of the appropriateness of recommendations. However, ACEH staff has not reviewed the reports for accuracy of all information presented.

**ACEH is in partial agreement with USTCF review**

**ACEH Case: RO0000057**  
**USTCF Claim: 13874**  
**Global ID: T0600191821**  
**Site Name: Lerer Brothers Transmission**  
**Site Address: 6340 Christie Avenue, Emeryville**

**USTCF Recommendations from October 13, 2010 Review Summary:**

The UST Fund staff recommends this claim be considered for low risk closure upon completion of the planned construction for the following reasons:

- Petroleum hydrocarbon affected soil appears to be limited to shallow small areas (<6.0 feet bgs) of the Site. The planned construction will excavate to a depth of 7.0 feet bgs which will remove all documented contaminated soil.

- Naturally occurring methane mitigation measures designed into the future construction mitigate any chance vapor intrusion. This design includes an intrinsically-safe podium-style building with a water/vapor barrier beneath two levels of parking then one level of small businesses with the upper five floors planned as residential.

ACEH Response: ACEH is in partial agreement with these recommendations. ACEH is in agreement that the planned redevelopment of the site will effect positive changes at the site. However, because some of the more elevated soil contamination is immediately adjacent to the southern property line there is a potential for offsite soil impacts. While only shallow impacts are currently documented, groundwater at the site is shallow (5 to 7 feet bgs) and the presence of on- and off-site dissolved phase concentrations are known. The off-site dissolved phase concentrations have been attributed to the site; however, the extent or magnitude has not been defined. In fact the majority of available flow direction maps (three of four) for the southern portion of the two parcel site document groundwater flow to the southeast. While this may be a localized effect; it has not been further investigated. As a consequence ACEH offers the following alternative language:

- The UST Fund staff recommends this claim be considered for low risk closure upon completion of the planned construction and appropriate investigation of all relevant data gaps at the site.

Thank you for providing ACEH with the opportunity to comment on the subject sites. Please contact me if you have any questions regarding the above responses.

Sincerely,

Mark E. Detterman, P.G., C.E.G.  
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations  
Electronic Report Upload (ftp) Instructions

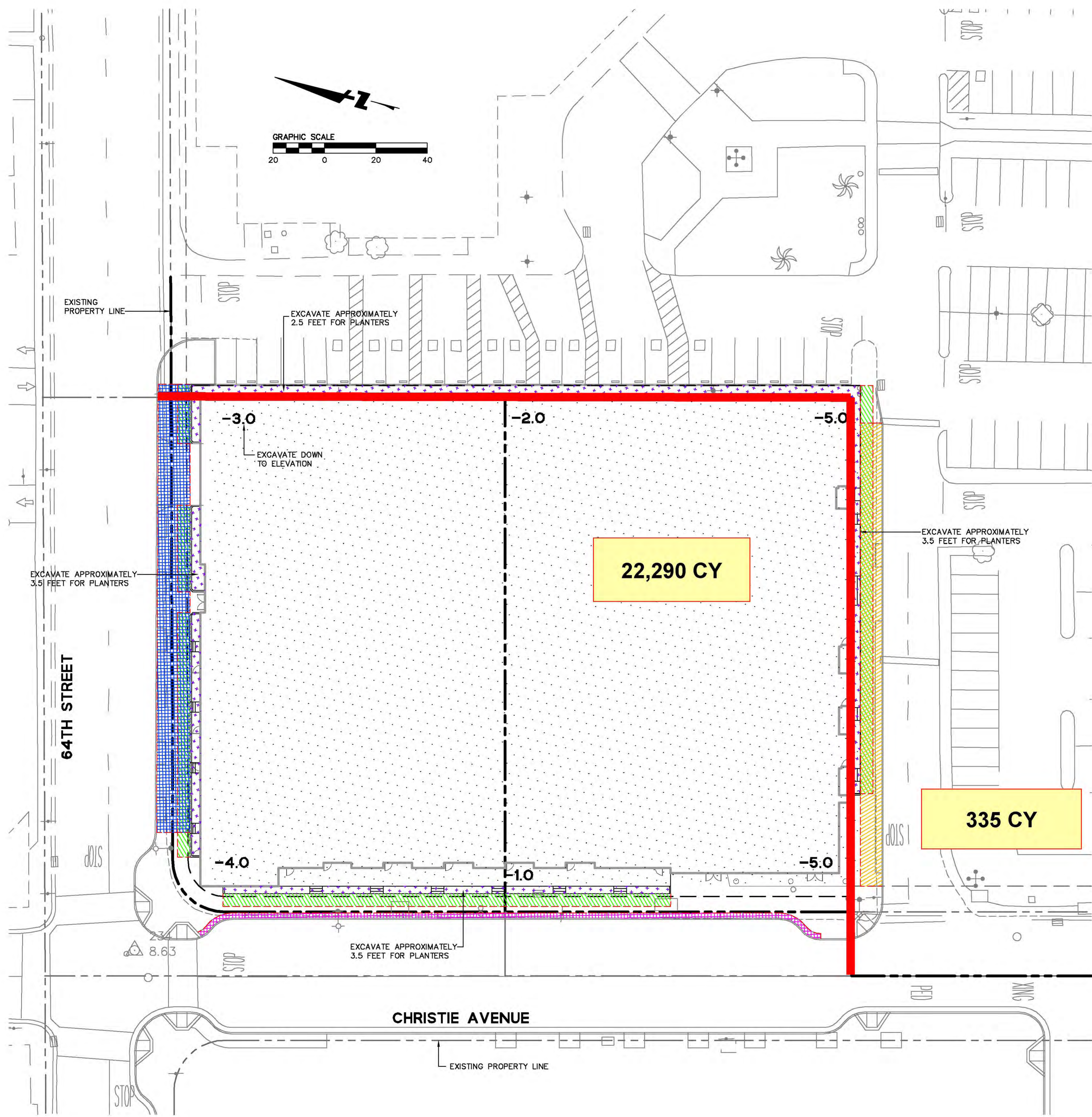
cc: Donna Drogos (sent via electronic mail to [donna.drogos@acgov.org](mailto:donna.drogos@acgov.org))  
Mark Detterman (sent via electronic mail to [mark.detterman@acgov.org](mailto:mark.detterman@acgov.org))  
eFile, GeoTracker

**APPENDIX B**






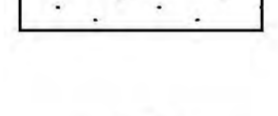

**SITE DEVELOPMENT/GRADING PLAN**

DRAWING NAME: J:\ENG05\050045\DWG-21 Christle Site\Christle Site\02-CHRISTIE SITE-GRADING.dwg  
 PLOT DATE: 07-28-10 PLOTTED BY: yee

Copyright 2007 Steinberg Architects All Rights Reserved - These Plans and/or Specifications are intended for the sole benefit of Steinberg Architects client and may not be used, re-used, copied, or reproduced in any form without the express written consent of Steinberg Architects. // Plotted Wednesday, July 28, 2010 10:55am by yee



**LEGEND**

-  OVEREXCAVATE 5 FEET WIDE AND 3.5 FEET DEEP BENEATH SIDEWALK TO SAME DEPTH AS PLANTER, THEN REPLACE WITH ENGINEERED FILL WITH LAYERS OF GEOGRID AT ONE-FOOT HORIZONTAL SPACING
-  EXCAVATE 4 FEET DEEP AND REPLACE WITH STRUCTURAL SOIL
-  EXCAVATE 2 FEET DEEP AND REPLACE WITH STRUCTURAL SOIL
-  EXCAVATE 2 FEET DEEP AND REPLACE WITH PLANTING SOIL
-  EXCAVATE FOR SUBGRADE PLANTERS
-  EXCAVATE FOR PROPOSED BUILDING
- 5.0** OVEREXCAVATION ELEVATION FOR BUILDING
-  LIMIT OF EXCAVATION

**NOTES**  
 EXCAVATION RECOMMENDATIONS FOR CONCEPTUAL GRADING PLAN ARE PER MILLER COMPANY AND ROCKRIDGE GEOTECHNICAL INC.

CLIENT  
 TMG Partners  
 100 Bush Street, 26th Floor  
 San Francisco, CA 94104

ARCHITECT  
 Steinberg Architects  
 98 Battery Street, Suite 300  
 San Francisco, CA 94111



255 SHORELINE DRIVE, SUITE 200  
 REDWOOD CITY, CA 94065  
 650/482-6300  
 650/482-6399 (FAX)

07.08.10 Final Development Plan Submittal  
 06.08.10 Final Development Plan Submittal

REV	DATE	ISSUE

64th and Christie Residential Building  
 Emeryville, CA

CONCEPTUAL GRADING PLAN

PROJECT #: 10008.000  
 DATE: as noted  
 SCALE: as noted

**APPENDIX C**

**SITE INVESTIGATION REPORT  
(ON CD-ROM)**




A Report Prepared for:


Rockwood Christie LLC  
c/o TMG Partners  
Attention: Ms Denise Pinkston  
100 Bush Street, 26th Floor  
San Francisco, California 94104

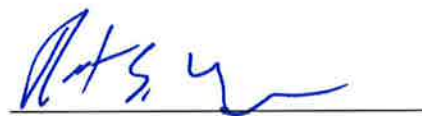
**RESULTS OF PRE-EXCAVATION INVESTIGATION  
AND PRELIMINARY SOIL CHARACTERIZATION  
PROPOSED 64<sup>th</sup> AND CHRISTIE RESIDENTIAL BUILDING  
64<sup>th</sup> STREET & CHRISTIE AVENUE  
EMERYVILLE, CALIFORNIA**

**JUNE 1, 2011**

By:

  
Christopher J. Baldassari  
Senior Geologist

  
William W. Mast, P.G.  
Associate Engineer

  
Robert S. Creps, P.E.  
Principal Engineer



**241.082.02.002**



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DISTRIBUTION

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## 1.0 INTRODUCTION

This report has been prepared by PES Environmental, Inc. (PES) to document the results of a pre-excavation soil and groundwater investigation and preliminary soil characterization. The work was conducted in support of the planned redevelopment of the site with a podium-style mixed-use residential/commercial building. The development project, known as the 64<sup>th</sup> and Christie Residential Building, is located at the southeast corner of the intersection of Christie Avenue and 64<sup>th</sup> Street in Emeryville, California. A site location map and a site plan and vicinity map are presented as Plates 1 and 2, respectively.

The work was conducted in accordance with the scope of work described in a Work Plan<sup>1</sup>, as well as the Final Remediation Work Plan<sup>2</sup> (RWP), both prepared under the direction of and with approval by the City of Emeryville, as lead agency for the site cleanup. The objective of the RWP is to mitigate identified threats to human health and the environment resulting from historical site activities. In support of that objective, the goals of the work described herein were to: (1) collect additional soil samples to provide current data that will allow better estimation of the likely costs associated with soil disposal during future site redevelopment (i.e., excavation and construction activities); (2) provide data that will aid in delineation of contaminants found in certain areas of the site; and (3) collect groundwater samples representative of current conditions in shallow groundwater.

The following sections of this report present: (1) a brief summary of site background information; (2) the methods and procedures for the soil and groundwater sampling activities; and (3) the results of the subsurface investigation.

## 2.0 BACKGROUND INFORMATION

Numerous environmental investigations have been conducted on the subject property between 1988 and 2004. A summary of previous environmental investigations and copies of the referenced reports can be found in the RWP.

Limited investigation of the site was conducted in late 2004<sup>3</sup>. The results of that testing indicated the presence of metals (i.e., cadmium, chromium, lead, nickel, and zinc) and heavy-fraction petroleum hydrocarbons (i.e., diesel and motor oil), light-fraction petroleum hydrocarbons (gasoline and its constituents) in the subsurface.

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<sup>1</sup> PES Environmental, Inc., 2011. *Work Plan, Pre-excavation Soil and Groundwater Investigation and Preliminary Soil Characterization, Proposed 64<sup>th</sup> and Christie Residential Building, 64<sup>th</sup> Street & Christie Avenue, Emeryville, California*. January 5.

<sup>2</sup> PES Environmental, Inc., 2011. *Final Remediation Work Plan, Proposed 64<sup>th</sup> and Christie Residential Building, 64<sup>th</sup> Street & Christie Avenue, Emeryville, California*. February 3.

<sup>3</sup> PES Environmental, Inc., 2005. *Phase II Environmental Subsurface Investigation Results, Gold and Wolfman Properties, Emeryville, California*. January 21.

### **3.0 SUBSURFACE INVESTIGATION**

The pre-excavation soil and groundwater investigation and preliminary soil characterization work was performed on March 14 through 17, 2011. The following sections describe the field methods and procedures.

The investigation consisted of advancing 35 soil borings for soil sampling purposes (SB-7 through SB-41), and advancing 6 additional borings for collecting groundwater samples (GW-8 through GW-13). Sample locations are shown on Plate 3.

#### **3.1 Pre-Field Activities**

Pre-field activities consisted of: (1) obtaining a permit from the Alameda County Public Works Agency (ACPWA); (2) contacting Underground Service Alert more than 48 hours before beginning drilling activities; (3) retaining a private utility locator, C Cruz Sub Surface Locators Inc. of Milpitas, California, to clear the proposed boring locations of subsurface utilities and foundations; and (4) retaining and scheduling Gregg Drilling, Inc. (Gregg) of Martinez, California, a licensed drilling contractor possessing a valid C-57 water well contractor's license, to perform the soil sampling and temporary groundwater well installation. A copy of the ACPWA drilling permit is provided in Appendix A.

#### **3.2 Soil Sampling Methods and Procedures**

Borehole drilling and sampling services were conducted in accordance with California Department of Water Resource Water Well Standards (Bulletin 74-90). Sampling was conducted under the supervision of a California-registered geologist. Soil cores were screened with a photoionization detector (PID). Lithologic logs were prepared for each boring using the Unified Soil Classification System. Lithologic logs are presented in Appendix B.

For the purpose of preliminary soil characterization, soil borings were advanced at 30 locations (SB-7 through SB-25, SB-27, and SB-32 through SB-41) to maximum depths of 16 feet below ground surface (feet bgs), and samples were collected at each boring from three discrete depths (approximately 2.5, 7.5, and 12.5 feet bgs). The soil samples were collected using direct-push drilling technology. Sample locations within existing building interiors were obtained utilizing either a portable Ramset drill or a track-mounted Marl M5T combination drill rig. In several instances sample depth intervals varied slightly due to soil recovery. As a consequence of drilling refusals from subsurface obstructions at location SB-13, only one sample at 2.5 feet bgs could be obtained. Similarly, at location SB-14 a soil sample from 12.5 bgs was not obtained due to poor sample recovery in the deeper portion of that boring.

To provide additional data useful for characterization of petroleum hydrocarbons in soil, five soil borings (SB-26, and SB-28 through SB-31) were advanced to approximately 20 feet bgs in the vicinity of the former UST. In addition to samples obtained from the depth intervals

described above, a deeper sample (i.e., 15.5 to 20 feet bgs) was collected to document conditions below the anticipated total excavation in the vicinity of the former UST area.

The soil samples were transported under chain-of-custody protocol to Curtis and Tompkins, Ltd. (C&T) in Berkeley, California, a California state-certified laboratory for the requested analyses. The samples were analyzed for: (1) the Title 22 list of 17 metals using U.S. EPA Method 6010B (2) total petroleum hydrocarbons (TPH) quantified as gasoline (TPHg) using U.S. EPA Method 8015M, and (3) TPH quantified as diesel (TPHd) and motor oil (TPHmo) using U.S. EPA Method 8015M. Soil samples collected from the five borings at the former UST area were analyzed for TPHg, TPHd, and TPHmo using the test methods listed above, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using U.S. EPA Method 8260B. A total of 10 soil samples were analyzed for volatile organic compounds (VOCs) using U.S. EPA Method 8260B and semi-volatile petroleum hydrocarbons (SVOCs) using U.S. EPA Test Method 8270C (GC/MS).

All boreholes were backfilled with neat cement grout from the bottom of the borehole, utilizing a tremie pipe, in accordance with ACPWA requirements. ACPWA was notified of the work within the timeframe specified in the drilling permit, and a grout inspector performed periodic on-site inspections during grouting activities.

### **3.3 Groundwater Sampling Methods and Procedures**

In accordance with the Work Plan, on March 14 and 15, 2011, six temporary groundwater wells were installed by Gregg in the first water-bearing zone at locations across the site, as shown on Plate 3. The borings for the temporary wells were drilled using 8-inch diameter hollow-stem augers, and the temporary wells were constructed using 2-inch diameter schedule 40 polyvinyl chloride (PVC) casing and screened with 0.010-inch factory-slotted PVC from approximately 6 to 16 feet bgs. A filterpack consisting of #2/12 Monterey Sand was placed in the annular space adjacent to the entire screened interval of the well and extended approximately 2 feet above the top of the screened interval. An approximately 2-foot thick seal consisting of bentonite chips was placed above each filter pack.

Development and sampling activities for the temporary wells were performed by Blaine Tech Services, of San Jose, California. The wells were purged to stabilize the filter pack around the well screen and to produce representative water samples from the water-bearing zone. Water quality parameters including temperature, pH, specific conductance, and turbidity were monitored during development. Well monitoring data sheets are presented in Appendix C. Following well purging, low flow sampling techniques<sup>4</sup> as well as field-filtering of samples were utilized to obtain representative groundwater samples.

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<sup>4</sup> In general accordance with EPA recommended procedures (*Low Flow (Minimal Drawdown) Groundwater Sampling Procedures*, EPA/540/S-95/504, April 1996).

Upon collection of groundwater samples, the temporary well materials were removed, the borings reamed with 8-inch augers to the total depth of the original boring, and the boreholes were grouted in accordance with ACPWA permit requirements.

The groundwater samples were transported to C&T under chain-of-custody protocol and analyzed on a standard 5-day turnaround time for: (1) the Title 22 list of 17 metals using U.S. EPA Method 6010B (2) VOCs and TPHg using U.S. EPA Method 8260B; and (3) TPHd/mo using U.S. EPA Method 8015M, following silica gel cleanup to remove biogenic interference (samples analyzed for TPHmo/d were also analyzed without silica gel cleanup) .

Downhole drilling and sampling equipment was steam cleaned at the commencement of fieldwork and between each borehole. Soil cuttings, decontamination rinsate, and any excess bailed groundwater were containerized in a 55-gallon drum and stored on the site for subsequent disposal pending chemical characterization. Upon completion of sampling activities, each borehole was grouted to the surface with cement grout under the oversight of an ACPWA inspector.

The ground surface adjacent to each temporary well was surveyed by a California registered land surveyor to obtain vertical reference elevations relative to NAVD88 and horizontal coordinates relative to NAD83 at each location. Survey results are presented in Appendix D.

## **4.0 INVESTIGATION RESULTS**

### **4.1 Lithology**

In general, subsurface soils consist of fill comprised of soft to dense clays and silts interlayered with loose to dense well graded sands overlying native Bay Mud. Debris was observed in numerous borings across the site at depths typically ranging from approximately 2 to 14 feet bgs. The observed debris generally consists of inert solids (e.g., glass, brick, wood, and roofing materials such as felt). The fragments of glass, brick, and wood appeared to be randomly scattered through the fill. Roofing debris and associated congealed, viscous tar was typically observed in 1- to 4-inch thick layers at depths ranging from approximately 7.5 to 12 feet bgs. Native Bay Mud deposits were observed beginning at depths between 12 and 15 feet bgs. Saturated soil conditions, indicative of groundwater, were encountered at depths generally varying between 4 to 7 feet bgs. Lithologic logs are presented in Appendix B.

### **4.2 Analytical Results**

The soil and groundwater analytical results are discussed below. The laboratory analytical reports and chain-of-custody forms are presented in Appendix E.

#### 4.2.1 Soil - Inorganic Analytical Results

On the basis of analysis for the suite of Title 22 metals, the inorganic analytical results indicated the presence of all 17 metals in soil samples at varying concentrations and detection frequencies. The laboratory analytical results of Title 22 metals in soil are presented in Table 2. The distribution of metals concentrations in the soil samples appears consistent with normal variations observed in San Francisco Bay area soil conditions, with the following exceptions:

- Lead was detected in all 87 samples at concentrations ranging from 3.1 to 1,500 mg/kg;
- Arsenic was detected in all 87 samples at concentrations ranging from 1.4 to 220 mg/kg; and
- Mercury was detected in 85 of the 87 samples at concentrations ranging from 0.034 to 7.3 mg/kg.

#### 4.2.2 Soil - Organic Analytical Results

The organic analytical results for soils indicate the presence of medium- and heavy-fraction petroleum hydrocarbons (TPH<sub>mo</sub> and TPH<sub>d</sub><sup>5</sup>). TPH<sub>g</sub><sup>6</sup> and petroleum hydrocarbon-related constituents (e.g., BTEX) were also detected at varying concentrations in soil samples collected across the site. The results for petroleum hydrocarbons, VOCs, and SVOCs are presented in Table 1 and summarized below:

- TPH<sub>mo</sub> was detected in 104 of 107 soil samples at concentrations ranging from 7.4 to 18,000 milligrams per kilogram (mg/kg);
- TPH<sub>d</sub> was detected in 106 of 107 soil samples at concentrations ranging from 1.0 mg/kg to 3,600 mg/kg;
- TPH<sub>g</sub> was detected in 48 of 107 soil samples at concentrations ranging from 0.17 to 9,700 mg/kg;
- Benzene was detected in 3 of 29 soil samples at concentrations ranging from 15 to 1,700 micrograms per kilogram ( $\mu\text{g}/\text{kg}$ );
- Toluene was detected in 2 of 29 soil samples at concentrations of 3.8 and 9.6  $\mu\text{g}/\text{kg}$ ;

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<sup>5</sup> According to the analytical laboratory, hydrocarbons detected in the diesel range for all the analyzed samples did not exhibit chromatographic patterns resembling the diesel standard.

<sup>6</sup> According to the analytical laboratory, hydrocarbons detected in the gasoline range did not exhibit chromatographic patterns resembling the gasoline standard in 44 of 48 samples where TPH<sub>g</sub> detections were reported.

- Ethylbenzene was detected in 7 of 29 soil samples at concentrations ranging from 5.3 to 75,000  $\mu\text{g}/\text{kg}$ ; and
- Total xylenes were detected in 7 of 29 soil samples at concentrations ranging from 4.4 to 18,000  $\mu\text{g}/\text{kg}$ .

In general, TPHmo was detected at relatively low concentrations in soil samples from the site, with the exception of soil samples SB-18-12.5, SB-32-11.0, and SB-34-10.5, where TPHmo was detected at concentrations ranging from 1,800 to 3,300 mg/kg (Table 1). As indicated on Plate 3, boring SB-18-12.5 is located beneath the 6430 Christie Avenue building; boring SB-32-11.0 is located in the vicinity of the former UST; and SB-34-10.5 is located south of the 6430 Christie Avenue building near the southwest corner of the site. The highest concentration of TPHmo (18,000 mg/kg) was detected in a sample collected in boring SB-38-7.5, located north of the 6390 Christie Avenue building. The lithologic log for boring SB-38-7.5 indicate the presence of debris (identified in the field as roofing felt) within the soil sample interval and this debris material may be the source for the anomalously high concentration of TPHmo reported for the sample at this location. Taken as a whole, only 3 out of 107 soil samples exceeded the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Level (ESL) residential direct-exposure for TPHmo of 1,800 mg/kg.

With a few exceptions, TPHg was generally detected at relatively low concentrations in soil samples across the site. The highest concentration of TPHg (9,700 mg/kg) was detected in sample SB-29-7.5, obtained from backfill within the former UST cavity. VOCs, related to fuel hydrocarbons, including benzene, ethylbenzene and total xylenes were also identified in the vicinity of the former UST (i.e., at borings SB-29<sup>7</sup> and SB-30). In general, concentrations of TPHg and VOCs related to fuel hydrocarbons appear to attenuate with depth based on the deeper soil samples (i.e., greater than 15 feet bgs).

SVOC detections in soil included fluoranthene, naphthalene, 2-methylnaphthalene, phenanthrene, and pyrene. SVOCs were not detected above the residential direct-exposure ESL in any samples, with the one exception: naphthalene and 2-methylnaphthalene were detected at concentrations of 6,000 and 7,600  $\mu\text{g}/\text{kg}$  in sample SB-30-8.5.

The results further indicate that: (1) chlorinated VOCs were not detected in any soil samples and do not appear to be present at the site; and (2) no newly discovered areas of soil contaminated with organic chemicals were identified.

#### 4.2.3 Groundwater Flow Direction

Based on groundwater elevations collected from the temporary monitoring wells and ground-surface elevation data, the groundwater flow direction was determined to be northwesterly. Depth to water in the temporary wells ranged from 4.0 to 6.1 feet bgs.

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<sup>7</sup> Elevated reporting limits in sample SB-29-7.5 may have prevented the detection of benzene and toluene.



#### 4.2.4 Groundwater - Inorganic Analytical Results

The inorganic analytical results indicated the presence of 8 out of 17 dissolved metals (arsenic, barium, cobalt, lead, molybdenum, nickel, vanadium, and zinc) in groundwater at relatively low concentrations. The laboratory analytical results for Title 22 dissolved metals in groundwater are presented in Table 4.

#### 4.2.5 Groundwater - Organic Analytical Results

Analytical results for petroleum hydrocarbons and VOCs in groundwater samples are summarized in Table 3. In accordance with discussions with the City of Emeryville, the extractable petroleum hydrocarbons were analyzed both with and without silica gel cleanup. TPHmo was not detected above the laboratory reporting limit in any samples for which silica gel cleanup was performed; where silica gel cleanup was not performed concentrations of TPHmo ranged from 1.4 to 11 milligrams per liter (mg/L). TPHd detections for which silica gel cleanup was performed ranged from 0.120 to 0.130 mg/L; detections for TPHd both with and without silica gel cleanup were noted by the laboratory as not resembling the standard chromatographic pattern. As shown in Table 3, the results indicate that a significant contribution to the detections may be attributable to polar organic compounds likely present from naturally occurring and/or historical anthropogenic sources found throughout the area.

Relatively low concentrations of TPHg and fuel hydrocarbon-related VOCs (i.e., toluene, ethylbenzene, and xylenes) were also detected in groundwater beneath the site. TPHg was detected in three out of six samples at concentrations ranging from 0.150 to 0.420 mg/L. The detections of TPHg were from samples nearest GW-11, GW-12, and GW-13. As shown on Table 3, low concentrations of fuel-related VOCs were detected in six out of six samples. Benzene was not detected in the groundwater samples.

## 5.0 DISCUSSION OF FINDINGS

### 5.1 Soil Characteristics

The lithologic conditions encountered are generally consistent with subsurface conditions observed during a geotechnical investigation conducted at the site in June 2010<sup>8</sup>. Fill containing scattered fragments of glass, brick, and wood was present to depths of approximately 12 feet bgs. The fill also contained a 1-to 4-inch thick layer of roofing debris and associated residual tar at depths ranging from 7.5 to 12 feet bgs.

The distribution of metals concentrations in the soil samples appears consistent with normal variations observed in San Francisco Bay area soils, with the following exceptions: (1) lead was detected at concentrations greater than the residential direct-exposure Environmental

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<sup>8</sup> Rockridge Geotechnical, 2010. *Geotechnical Investigation, Proposed Residential Building, 64<sup>th</sup> Street and Christie Avenue, Emeryville, California*. August 4.

Screening Level (ESL) of 260 mg/kg in 8 of 87 soil samples; (2) arsenic was detected at concentrations greater than the residential direct-exposure ESL of 22 mg/kg in 7 of 87 soil samples; and (3) mercury was detected at a concentration greater than the residential direct-exposure ESL of 6.7 mg/kg in 1 of 87 soil samples. The disparate locations of the samples with metals concentrations exceeding their respective ESL appear to be consistent with the anticipated variable nature of the subsurface fill materials. Taken as a whole, lead and arsenic concentrations appear to attenuate with depth.

In general, TPHmo was detected at low to moderate concentrations in soil samples from the site, with the exception of soil samples SB-18-12.5, SB-32-11.0, and SB-34-10.5, where TPHmo was detected at concentrations ranging from 1,800 to 3,300 mg/kg (Table 1). As indicated on Plate 3, these three borings are located across the site: boring SB-18 is located beneath the 6430 Christie Avenue building; boring SB-32 is located in the vicinity of the former UST; and SB-34 is located south of the 6430 Christie Avenue building near the southwest corner of the site. The highest concentration of TPHmo (18,000 mg/kg) was detected in a sample collected from boring SB-38, located north of the 6390 Christie Avenue building. The lithologic log for boring SB-38 indicates the presence of roofing debris within the soil sample interval and the presence of this material may be the reason for the anomalously high concentration of TPHmo reported in this sample. Taken as a whole, just 4 out of 107 soil samples exceeded the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) Environmental Screening Level (ESL) residential direct-exposure for TPHmo of 1,800 mg/kg.

With a few exceptions, TPHg was generally detected at relatively low concentrations in soil samples across the site. The highest concentration of TPHg (9,700 mg/kg) was detected in sample SB-29-7.5. Elevated concentrations of VOCs related to fuel hydrocarbons, including benzene, ethylbenzene, and total xylenes were also identified at borings SB-29<sup>9</sup> and SB-30. In general, concentrations of TPHg and VOCs related to fuel hydrocarbons appear to attenuate with depth based on the deeper soil samples (i.e., greater than 15 feet bgs).

SVOC detections in soil included fluoranthene, naphthalene, 2-methylnaphthalene, phenanthrene, and pyrene. SVOCs were not detected above the residential direct-exposure ESL in any samples, with the one exception: naphthalene and 2-methylnaphthalene were detected at concentrations of 6,000 and 7,600  $\mu\text{g}/\text{kg}$  in sample SB-30-8.5.

The results further indicate that: (1) chlorinated VOCs were not detected in any soil samples; and (2) no newly discovered areas of soil contaminated with organic chemicals were identified.

## **5.2 Groundwater Characteristics**

As expected, groundwater flow direction at the site, based on one set of measurements from the six temporary wells, is generally westerly toward San Francisco Bay.

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<sup>9</sup> Elevated reporting limits in sample SB-29-7.5 may have prevented the detection of benzene and toluene.

Detections of both extractable and purgeable petroleum hydrocarbons and fuel-related VOCs are generally consistent with sample results from prior site investigations, and indicate the presence of low concentrations of heavy-fraction petroleum hydrocarbons (i.e., TPHd and TPHmo) across the site. The groundwater results further indicate that: (1) chlorinated VOCs are not present in groundwater at the site; and (2) additional sources of groundwater contamination from organic constituents were not identified.

## **6.0 PROJECT STATUS**

The pre-excavation investigation and preliminary soil characterization activities have been completed in accordance with the Remediation Work Plan for the planned development project. In accordance with the RWP, the next steps of the environmental evaluation consist of utilizing the investigation results described herein to assess soil and groundwater management options for the building excavation, and refine the environmental construction cost estimates.

**TABLES**

**Table 1**  
**Summary of Analytical Results for Soil - Petroleum Hydrocarbons, VOCs, and SVOCs**  
**Proposed 64th and Christie Avenue Residential Building**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Sample Depth (ft bgs)	Sample Location	Date	TPHmo (mg/Kg)	TPHd (mg/Kg)	TPHg (mg/Kg)	VOCs													SVOCs					
							Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	Xylenes (µg/Kg)	Acetone (µg/Kg)	2-Ba (µg/Kg)	n-Bb (µg/Kg)	sec-Bb (µg/Kg)	tert-Bb (µg/Kg)	Pbz (µg/Kg)	Naph (µg/Kg)	Isopb (µg/Kg)	1,2,4-TMB (µg/Kg)	1,3,5-TMB (µg/Kg)	Fluor (µg/Kg)	Naph (µg/Kg)	2-Mnaph (µg/Kg)	Phen (µg/Kg)	Pyrene (µg/Kg)
SB-7-2.5	2.5	SB-7	3/14/2011	72	17 Y	< 0.17	< 3.9	< 3.9	< 3.9	< 3.9	< 15	< 7.7	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 3.9	< 67	< 67	< 67	< 67	< 67
SB-7-5.0	5.0	SB-7	3/14/2011	51	11 Y	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-7-12.0	12.0	SB-7	3/14/2011	60	63 Y	1.9 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-8-2.5	2.5	SB-8	3/14/2011	14	3.1 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-8-6.5	6.5	SB-8	3/14/2011	910	150 Y	1.5 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-8-12.5	12.5	SB-8	3/14/2011	54	32 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-9-2.5	2.5	SB-9	3/14/2011	260	80 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-9-6.5	6.5	SB-9	3/14/2011	160	27 Y	< 0.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-9-12.5	12.5	SB-9	3/14/2011	890	330 Y	1.7 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-10-2.5	2.5	SB-10	3/15/2011	630	210 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-10-5.5	5.5	SB-10	3/15/2011	< 5.0	1.3 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-10-12.5	12.5	SB-10	3/15/2011	42	24 Y	0.75 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-11-2.5	2.5	SB-11	3/17/2011	22	7.7 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-11-7.5	7.5	SB-11	3/17/2011	51	23 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-11-12.5	12.5	SB-11	3/17/2011	51	20 Y	< 0.15	< 5.1	< 5.1	< 5.1	< 5.1	59	12	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 5.1	< 66	< 66	< 66	< 66	< 66
SB-12-2.5	2.5	SB-12	3/14/2011	470	140 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-12-7.5	7.5	SB-12	3/14/2011	120	34 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-12-12.5	12.5	SB-12	3/14/2011	88	22 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-13-2.5	2.5	SB-13	3/15/2011	410	140 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-14-2.5	2.5	SB-14	3/15/2011	800	230 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-14-7.5	7.5	SB-14	3/15/2011	360	150 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-15-2.5	2.5	SB-15	2/18/2011	600	130 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-15-4.5	4.5	SB-15	3/15/2011	410	230 Y	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-15-12.5	12.5	SB-15	3/15/2011	210	98 Y	0.28 Y	< 4.0	< 4.0	< 4.0	< 4.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-16-2.5	2.5	SB-16	3/16/2011	390	110 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-16-7.5	7.5	SB-16	3/16/2011	22	6.1 Y	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-16-12.5	12.5	SB-16	3/16/2011	7.4	3.4 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-17-2.5	2.5	SB-17	3/16/2011	230	82 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-17-6.0	6.0	SB-17	3/16/2011	17	6.8 Y	< 0.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-17-12.5	12.5	SB-17	3/16/2011	58	15 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-18-2.5	2.5	SB-18	3/17/2011	240	48 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-18-7.0	7.0	SB-18	3/17/2011	71	16 Y	< 0.20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-18-12.5	12.5	SB-18	3/17/2011	1,800	390 Y	1.4 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-19-2.5	2.5	SB-19	3/17/2011	290	77 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-19-7.5	7.5	SB-19	3/17/2011	920	380 Y	< 0.20	< 4.1	< 4.1	< 4.1	< 4.1	39	8.6	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 4.1	< 330	< 330	< 330	< 330	< 3,600
SB-19-12.5	12.5	SB-19	3/17/2011	490	310 Y	1.4 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-20-1.5	1.5	SB-20	3/17/2011	410	170 Y	< 0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-20-8.5	8.5	SB-20	3/17/2011	170	76 Y	< 0.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-20-12.5	12.5	SB-20	3/17/2011	410	130 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-21-2.5	2.5	SB-21	3/17/2011	61	34 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-21-8.5	8.5	SB-21	3/17/2011	530	150 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-21-12.5	12.5	SB-21	3/17/2011	790	210 Y	4.1 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-22-2.5	2.5	SB-22	3/17/2011	540	310 Y	< 0.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-22-7.0	7.0	SB-22	3/17/2011	< 5.0	1.0 Y	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-22-12.5	12.5	SB-22	3/17/2011	420	100 Y	0.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Table 1**  
**Summary of Analytical Results for Soil - Petroleum Hydrocarbons, VOCs, and SVOCs**  
**Proposed 64th and Christie Avenue Residential Building**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Sample Depth (ft bgs)	Sample Location	Date	TPHmo (mg/Kg)	TPHd (mg/Kg)	TPHg (mg/Kg)	VOCs													SVOCs					
							Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	Xylenes (µg/Kg)	Acetone (µg/Kg)	2-Ba (µg/Kg)	n-Bb (µg/Kg)	sec-Bb (µg/Kg)	tert-Bb (µg/Kg)	Pbz (µg/Kg)	Naph (µg/Kg)	Isopb (µg/Kg)	1,2,4-TMB (µg/Kg)	1,3,5-TMB (µg/Kg)	Fluor (µg/Kg)	Naph (µg/Kg)	2-Mnaph (µg/Kg)	Phen (µg/Kg)	Pyrene (µg/Kg)
SB-23-2.5	2.5	SB-23	3/17/2011	160	48 Y	0.51 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-23-7.0	7.0	SB-23	3/17/2011	35	41 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-23-12.5	12.5	SB-23	3/17/2011	230	91 Y	0.39 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-24-1.5	1.5	SB-24	3/16/2011	850	740 Y	560 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-24-5.5	5.5	SB-24	3/16/2011	510	74 Y	1.2 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-24-12.0	12.0	SB-24	3/16/2011	990	260 Y	0.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-25-2.5	2.5	SB-25	3/16/2011	430	120 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-25-7.5	7.5	SB-25	3/16/2011	500	110 Y	< 0.18	< 4.5	< 4.5	< 4.5	< 4.5	< 18	< 9.1	< 4.5	< 4.5	< 4.5	< 4.5	13	< 4.5	< 4.5	< 4.5	< 67	150	< 67	< 67	74
SB-25-12.5	12.5	SB-25	3/16/2011	1,000	340 Y	0.53 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-26-1.5	1.5	SB-26	3/17/2011	640	170 Y	4.3 Y	41	< 3.9	5.3	4.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-26-6.5	6.5	SB-26	3/17/2011	270	95 Y	1.5 Y	< 4.5	< 4.5	< 4.5	< 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-26-12.5	12.5	SB-26	3/17/2011	280	69 Y	5.2 Y	15	9.6	10	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-26-20.0	20.0	SB-26	3/17/2011	80	44 Y	0.43 Y	< 4.1	< 4.1	< 4.1	< 4.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-27-2.5	2.5	SB-27	3/16/2011	94	16 Y	0.90 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-27-7.5	7.5	SB-27	3/16/2011	290	430 Y	0.46 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-27-12.5	12.5	SB-27	3/16/2011	79	30 Y	4.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-28-1.5	1.5	SB-28	3/17/2011	690	170 Y	0.34 Y	< 3.9	< 3.9	< 3.9	< 3.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-28-7.5	7.5	SB-28	3/17/2011	< 5.0	< 1.0	< 0.14	< 4.3	< 4.3	< 4.3	< 4.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-28-12.5	12.5	SB-28	3/17/2011	880	380 Y	3.2 Y	< 3.8	3.8	< 3.8	< 3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-28-16.0	16.0	SB-28	3/17/2011	11	6.7 Y	< 0.16	< 3.9	< 3.9	< 3.9	< 3.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-29-2.5	2.5	SB-29	3/16/2011	910	920 Y	710 Y	< 250	< 250	2,000	< 250	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-29-7.5	7.5	SB-29	3/16/2011	550	580 Y	9,700 Y	< 6,400	< 6,400	75,000	18,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-29-12.5	12.5	SB-29	3/16/2011	400	260 Y	2.6 Y	< 5.3	< 5.3	< 5.3	8.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-29-16.0	16.0	SB-29	3/16/2011	9.0	5.7 Y	< 0.18	< 6.2	< 6.2	< 6.2	< 6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-30-2.0	2.0	SB-30	3/17/2011	49	49	740 Y	1,700	< 270	6,200	5,150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-30-8.5	8.5	SB-30	3/17/2011	720	280 Y	680 Y	< 220	< 220	1,300	3,900	< 860	< 430	5,000	1,800	720	1,500	880	1,000	5,000	1,800	< 66	6,000	7,600	63	< 66
SB-30-12.5	12.5	SB-30	3/17/2011	180	120 Y	46 Y	< 4.1	< 4.1	39	145	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-30-15.5	15.5	SB-30	3/17/2011	69	53 Y	1.3 Y	< 4.3	< 4.3	< 4.3	< 4.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-31-2.5	2.5	SB-31	3/16/2011	330	69 Y	< 0.17	< 4.5	< 4.5	< 4.5	< 4.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-31-7.5	7.5	SB-31	3/16/2011	430	170 Y	6.2 Y	< 3.8	< 3.8	< 3.8	< 3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-31-12.5	12.5	SB-31	3/16/2011	1,000	640 Y	1,600 Y	< 220	< 220	< 220	< 220	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-31-16.0	16.0	SB-31	3/16/2011	690	360 Y	460 Y	< 500	< 500	< 500	< 500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-32-2.5	2.5	SB-32	3/16/2011	670	80 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-32-7.5	7.5	SB-32	3/16/2011	220	93 Y	3.1 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-32-11.0	11.0	SB-32	3/16/2011	3,300	3,100 Y	2.3 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-33-2.5	2.5	SB-33	3/17/2011	12	4.1 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-33-8.5	8.5	SB-33	3/17/2011	300	180 Y	2.2 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-33-12.5	12.5	SB-33	3/17/2011	33	41 Y	< 0.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-34-2.5	2.5	SB-34	3/17/2011	440	130 Y	0.36 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-34-8.5	8.5	SB-34	3/17/2011	380	510 Y	50 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-34-10.5	10.5	SB-34	3/17/2011	2,300	3,600	11 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-35-2.5	2.5	SB-35	3/17/2011	490	150 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SB-35-8.5	8.5	SB-35	3/17/2011	1,300	490 Y	110 Y	< 200	< 200	< 200	< 200	< 790	< 390	< 200	< 200	< 200	< 200	< 200	< 200	< 200	< 670	< 670	< 670	< 670	1,100	
SB-35-12.5	12.5	SB-35	3/17/2011	1,000	310 Y	3.3 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

**Table 1**  
**Summary of Analytical Results for Soil - Petroleum Hydrocarbons, VOCs, and SVOCs**  
**Proposed 64th and Christie Avenue Residential Building**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Sample Depth (ft bgs)	Sample Location	Date	TPHmo (mg/Kg)	TPHd (mg/Kg)	TPHg (mg/Kg)	VOCs													SVOCs					
							Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	Xylenes (µg/Kg)	Acetone (µg/Kg)	2-Ba (µg/Kg)	n-Bb (µg/Kg)	sec-Bb (µg/Kg)	tert-Bb (µg/Kg)	Pbz (µg/Kg)	Naph (µg/Kg)	Isopb (µg/Kg)	1,2,4-TMB (µg/Kg)	1,3,5-TMB (µg/Kg)	Fluor (µg/Kg)	Naph (µg/Kg)	2-Mnaph (µg/Kg)	Phen (µg/Kg)	Pyrene (µg/Kg)
SB-36-2.5	2.5	SB-36	3/15/2011	160	35 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-36-6.5	6.5	SB-36	3/15/2011	290	130 Y	< 0.19	< 4.7	< 4.7	< 4.7	< 4.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-36-12.5	12.5	SB-36	3/15/2011	260	180	1.8 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-37-2.5	2.5	SB-37	3/15/2011	480	99 Y	0.17 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-37-7.5	7.5	SB-37	3/15/2011	8.6	2.0 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-37-12.5	12.5	SB-37	3/15/2011	130	53 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-38-2.5	2.5	SB-38	3/15/2011	55	16 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-38-7.5	7.5	SB-38	3/15/2011	18,000	3,500 Y	< 0.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-38-12.5	12.5	SB-38	3/15/2011	50	33	0.55 Y	< 4.0	< 4.0	< 4.0	< 4.0	< 16.0	< 6.9	< 4.0	< 4.0	< 4.0	< 4.0	5.3	< 4.0	7.8	< 4.0	< 66	< 66	< 66	< 66	< 66
SB-39-2.5	2.5	SB-39	3/15/2011	36	26 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-39-5.0	5.0	SB-39	3/15/2011	69	38 Y	< 0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-39-12.5	12.5	SB-39	3/15/2011	18	3.8 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-40-2.5	2.5	SB-40	3/15/2011	90	25 Y	< 0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-40-7.5	7.5	SB-40	3/15/2011	89	64 Y	0.19 Y	< 4.0	< 4.0	< 4.0	< 4.0	< 16.0	< 8.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 66	< 66	< 66	< 66	< 66
SB-40-12.5	12.5	SB-40	3/15/2011	56	47 Y	0.19 Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-41-2.5	2.5	SB-41	3/15/2011	590	110 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-41-6.5	6.5	SB-41	3/15/2011	190	86 Y	< 0.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-41-12.5	12.5	SB-41	3/15/2011	340	120 Y	< 0.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Residential Direct-Exposure ESL<sup>(1)</sup></b>				1,800	540	540	0.12	320	2.3	150	14,000	--	--	--	--	--	--	--	--	--	2,300	31	2,300	1,700	3,400

**Notes:**  
VOCs = Volatile Organic Compounds  
SVOCs = Semi-volatile Organic Compounds  
mg/kg = milligrams per kilogram  
µg/kg = micrograms per kilogram  
ft bgs = Feet below ground surface  
< 0.15 = Not detected at or above the indicated laboratory reporting limit  
ND = Not detected at or above the indicated laboratory reporting limit  
-- = Not analyzed or not applicable  
Y = Sample exhibits chromatographic pattern which does not resemble standard  
TPHmo = Total petroleum hydrocarbons quantified as motor oil  
TPHd = Total petroleum hydrocarbons quantified as diesel  
TPHg = Total petroleum hydrocarbons quantified as gasoline  
2-Ba = 2-Butanone  
Bb = Butylbenzene  
n-Bb = n-Butylbenzene  
sec-Bb = sec-Butylbenzene  
tert-Bb = tert-Butylbenzene  
Pbz = Propylbenzene  
Isopb = Isopropylbenzene  
1,2,4-Tmb = 1,2,4-Trimethylbenzene  
1,3,5-Tmb = 1,3,5-Trimethylbenzene  
Fluor = Fluoranthene  
Naph = Naphthalene  
2-Mnaph = 2-Methylnaphthalene  
Phen = Phenanthrene

(1) Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL): Direct Exposure for Residential Use (DERU); HQ = 1 for Non-Carcinogens (Table K-1).

**Table 2**  
**Summary of Analytical Results for Soil - Metals**  
**Proposed 64th and Christie Avenue Residential Building**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Depth (ft bgs)	Sample Location	Date	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SB-7-2.5	2.5	SB-7	3/14/2011	2.1	5.5	440	0.42	0.61	41	8.4	72	210	0.090	< 0.25	62	< 0.50	< 0.25	< 0.50	33	290
SB-7-5.0	5.0	SB-7	3/14/2011	3.6	3.6	150	0.32	0.51	18	7.9	38	83	0.17	< 0.25	19	< 0.50	< 0.25	< 0.50	36	150
SB-7-12.0	12.0	SB-7	3/14/2011	0.94	8.9	69	0.38	0.62	62	9.6	35	48	0.83	< 0.25	54	< 0.50	0.32	< 0.50	45	110
SB-8-2.5	2.5	SB-8	3/14/2011	< 0.50	4.9	31	0.12	< 0.25	32	9.2	8.1	3.4	0.066	< 0.25	42	< 0.50	< 0.25	< 0.50	35	37
SB-8-6.5	6.5	SB-8	3/14/2011	0.89	4.3	170	0.40	0.43	40	10	25	80	0.15	< 0.25	68	< 0.50	< 0.25	< 0.50	39	140
SB-8-12.5	12.5	SB-8	3/14/2011	< 0.50	1.8	88	0.27	< 0.25	8.5	2.8	5.9	11	0.18	< 0.25	7.9	< 0.50	< 0.25	< 0.50	15	25
SB-9-2.5	2.5	SB-9	3/14/2011	2.2	8.8	150	0.34	1.5	36	8.8	200	95	0.32	0.31	42	< 0.50	< 0.25	< 0.50	36	250
SB-9-6.5	6.5	SB-9	3/14/2011	1.1	3.2	150	0.52	< 0.25	39	8.3	24	11	0.23	< 0.25	36	< 0.50	< 0.25	< 0.50	43	43
SB-9-12.5	12.5	SB-9	3/14/2011	1.4	3.2	190	0.16	0.35	8.5	5.2	12	36	0.12	< 0.25	8.2	< 0.50	< 0.25	< 0.50	25	270
SB-10-2.5	2.5	SB-10	3/15/2011	13	19	680	0.41	1.0	54	16	430	260	0.93	6.4	69	< 0.50	0.47	< 0.50	41	780
SB-10-5.5	5.5	SB-10	3/15/2011	5.1	3.5	88	0.34	< 0.25	28	6.8	11	4.1	0.034	0.63	31	< 0.50	< 0.25	< 0.50	25	30
SB-10-12.5	12.5	SB-10	3/15/2011	11	5.1	89	0.42	< 0.25	73	11	24	37	0.21	0.53	61	< 0.50	< 0.25	< 0.50	53	90
SB-11-2.5	2.5	SB-11	3/17/2011	6.9	3.7	130	0.50	0.28	37	9.7	34	20	0.056	0.64	54	< 0.50	< 0.25	< 0.50	52	49
SB-11-7.5	7.5	SB-11	3/17/2011	4.0	3.4	200	0.44	< 0.25	39	12	16	25	0.099	0.42	53	< 0.50	< 0.25	< 0.50	36	49
SB-11-12.5	12.5	SB-11	3/17/2011	5.7	8.0	190	0.47	0.31	37	9.9	51	88	0.29	1.0	35	< 0.50	0.30	< 0.50	41	280
SB-12-2.5	2.5	SB-12	3/14/2011	5.6	20	190	0.30	0.95	36	8.1	170	180	0.69	0.92	37	< 0.50	< 0.25	< 0.50	32	260
SB-12-7.5	7.5	SB-12	3/14/2011	2.9	5.4	180	0.38	0.82	35	8.7	160	160	0.26	0.56	42	< 0.50	0.42	< 0.50	33	380
SB-12-12.5	12.5	SB-12	3/14/2011	1.1	5.1	210	0.42	0.28	47	9.3	27	130	0.17	< 0.25	42	< 0.50	< 0.25	< 0.50	36	140
SB-13-2.5	2.5	SB-13	3/15/2011	4.2	28	230	0.32	1.0	34	9.4	190	230	0.37	1.1	39	< 0.50	0.26	< 0.50	33	340
SB-14-2.5	2.5	SB-14	3/15/2011	12	17	270	0.46	0.86	58	13	150	160	0.40	1.1	57	< 0.50	< 0.25	< 0.50	40	350
SB-14-7.5	7.5	SB-14	3/15/2011	20	12	210	0.37	0.83	50	9.7	730	450	7.3	1.0	51	< 0.50	0.56	< 0.50	35	960
SB-15-2.5	2.5	SB-15	3/15/2011	15	12	260	0.38	3.8	39	9.9	230	260	0.34	1.4	50	< 0.50	0.29	< 0.50	33	500
SB-15-4.5	4.5	SB-15	3/15/2011	13	3.8	160	0.21	1.5	26	5.7	120	250	0.16	1.1	22	< 0.50	0.80	< 0.50	15	260
SB-15-12.5	12.5	SB-15	3/15/2011	5.1	1.4	65	0.23	< 0.25	20	4.8	29	20	0.081	0.66	25	< 0.50	< 0.25	< 0.50	17	82
SB-16-2.5	2.5	SB-16	3/16/2011	10	15	280	0.36	1.2	44	13	190	230	1.6	2.8	49	< 0.50	0.44	< 0.50	35	420
SB-16-7.5	7.5	SB-16	3/16/2011	6.1	3.7	190	0.49	0.44	42	14	56	48	1.0	0.74	41	< 0.50	< 0.25	< 0.50	39	120
SB-16-12.5	12.5	SB-16	3/16/2011	7.1	9.8	110	0.46	< 0.25	31	11	180	6.6	0.11	0.76	42	< 0.50	< 0.25	< 0.50	34	46
SB-17-2.5	2.5	SB-17	3/16/2011	12	27	320	0.36	4.7	40	9.7	550	430	5.2	0.80	38	1.5	0.46	< 0.50	30	630
SB-17-6.0	6.0	SB-17	3/16/2011	4.4	3.2	130	0.42	< 0.25	42	17	19	6.4	0.041	0.47	36	< 0.50	< 0.25	< 0.50	37	32
SB-17-12.5	12.5	SB-17	3/16/2011	< 0.50	2.4	29	0.15	< 0.25	9.3	2.2	12	19	0.13	0.35	13	< 0.50	< 0.25	1.4	11	25
SB-18-2.5	2.5	SB-18	3/17/2011	5.9	68	290	0.27	11	38	6.9	230	170	0.56	0.66	32	2.8	0.30	< 0.50	24	430
SB-18-7.0	7.0	SB-18	3/17/2011	1.1	2.8	72	0.25	< 0.25	15	3.7	9.6	24	0.15	< 0.25	18	< 0.50	< 0.25	1.2	17	27
SB-18-12.5	12.5	SB-18	3/17/2011	7.4	5.5	170	0.40	0.33	66	9.5	25	14	0.26	0.36	59	< 0.25	< 0.50	< 0.50	48	160
SB-19-2.5	2.5	SB-19	3/17/2011	13	120	640	0.28	3.9	59	8.0	790	330	0.29	0.60	49	< 0.50	0.40	< 0.50	32	1,500
SB-19-7.5	7.5	SB-19	3/17/2011	12	16	430	0.56	1.1	33	7.3	110	250	0.35	1.1	47	< 0.50	< 0.25	< 0.50	53	190
SB-19-12.5	12.5	SB-19	3/17/2011	4.4	6.8	180	0.29	< 0.25	34	7.0	19	53	0.76	0.63	31	0.67	< 0.25	< 0.50	32	85



**Table 2**  
**Summary of Analytical Results for Soil - Metals**  
**Proposed 64th and Christie Avenue Residential Building**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Depth (ft bgs)	Sample Location	Date	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SB-20-1.5	1.5	SB-20	3/17/2011	9.5	23	200	0.28	1.0	35	8.0	200	180	0.62	0.73	39	< 0.50	< 0.25	< 0.50	32	240
SB-20-8.5	8.5	SB-20	3/17/2011	5.8	15	110	0.18	0.61	29	8.1	82	65	0.11	0.58	36	< 0.50	< 0.25	< 0.50	29	130
SB-20-12.5	12.5	SB-20	3/17/2011	5.2	7.7	150	0.36	< 0.25	41	12	43	35	0.28	0.64	47	< 0.50	< 0.25	< 0.50	33	81
SB-21-2.5	2.5	SB-21	3/17/2011	4.9	4.3	86	0.27	< 0.25	40	9.8	18	44	0.066	0.33	42	< 0.50	< 0.25	< 0.50	34	62
SB-21-8.5	8.5	SB-21	3/17/2011	10	5.8	120	0.33	1.2	37	8.3	52	140	0.25	0.76	37	< 0.50	< 0.25	< 0.50	36	430
SB-21-12.5	12.5	SB-21	3/17/2011	12	4.2	110	0.25	0.43	30	7.7	77	84	0.39	1.1	31	< 0.50	< 0.25	< 0.50	30	100
SB-22-2.5	2.5	SB-22	3/17/2011	8.8	98	630	0.34	2.5	40	11	200	190	0.35	4.5	45	< 0.50	< 0.25	< 0.50	33	560
SB-22-7.0	7.0	SB-22	3/17/2011	3.1	2.7	170	0.41	< 0.25	36	6.3	14	94	0.10	0.32	34	< 0.50	< 0.25	< 0.50	34	54
SB-22-12.5	12.5	SB-22	3/17/2011	6.9	6.9	180	0.42	0.45	35	8.9	78	130	2.0	2.3	32	< 0.50	< 0.25	< 0.50	34	140
SB-23-2.5	2.5	SB-23	3/17/2011	9.5	8.7	160	0.48	0.52	35	8.8	140	83	0.18	0.88	35	< 0.50	< 0.25	< 0.50	34	94
SB-23-7.0	7.0	SB-23	3/17/2011	4.0	3.0	130	0.45	0.32	40	8.4	16	110	0.048	0.72	35	< 0.50	< 0.25	< 0.50	37	54
SB-23-12.5	12.5	SB-23	3/17/2011	2.2	6.0	66	0.21	0.34	24	6.5	8.3	12	0.035	0.53	24	< 0.50	< 0.25	< 0.50	28	23
SB-24-1.5	1.5	SB-24	3/16/2011	9.2	6.8	200	0.66	0.38	21	11	49	64	0.72	1.5	29	< 0.50	< 0.25	< 0.50	29	130
SB-24-5.5	5.5	SB-24	3/16/2011	5.7	8.9	180	0.28	1.4	41	6.9	29	39	0.24	1.1	33	< 0.50	< 0.25	< 0.50	27	110
SB-24-12.0	12.0	SB-24	3/16/2011	2.0	1.4	28	0.22	< 0.25	10	2.4	5.4	21	0.42	0.34	6.9	< 0.50	< 0.25	< 0.50	8.0	31
SB-25-2.5	2.5	SB-25	3/16/2011	10	7.8	190	0.44	0.71	36	13	89	150	0.52	1.4	43	< 0.50	0.33	< 0.50	36	240
SB-25-7.5	7.5	SB-25	3/16/2011	7.9	7.1	250	0.42	1.3	35	14	120	130	0.37	0.87	41	< 0.50	< 0.25	< 0.50	35	300
SB-25-12.5	12.5	SB-25	3/16/2011	8.7	4.5	200	0.33	0.96	37	7.1	360	310	0.11	1.2	30	< 0.50	0.58	0.78	27	340
SB-27-2.5	2.5	SB-27	3/16/2011	2.8	1.8	170	0.63	< 0.25	140	4.2	33	9.9	1.4	0.55	16	< 0.50	< 0.25	< 0.50	17	44
SB-27-7.5	7.5	SB-27	3/16/2011	5.8	3.6	190	0.50	< 0.25	53	16	23	91	0.25	0.91	110	< 0.50	< 0.25	< 0.50	40	71
SB-27-12.5	12.5	SB-27	3/16/2011	6.1	4.5	120	0.33	< 0.25	35	8.1	21	11	0.14	1.2	36	< 0.50	< 0.25	< 0.50	34	44
SB-32-2.5	2.5	SB-32	3/16/2011	5.3	2.3	130	0.25	1.3	35	6.8	120	110	2.5	2.1	32	< 0.50	< 0.25	< 0.50	28	210
SB-32-7.5	7.5	SB-32	3/16/2011	8.1	6.5	760	0.40	1.7	37	8.8	60	800	0.79	1.1	32	< 0.50	< 0.25	< 0.50	40	340
SB-32-11.0	11.0	SB-32	3/16/2011	5.7	3.1	180	0.41	< 0.25	80	12	18	16	0.22	0.55	31	< 0.50	< 0.25	0.96	36	51
SB-33-2.5	2.5	SB-33	3/17/2011	6.9	4.1	200	0.46	0.59	44	18	25	6.7	0.11	1.2	64	< 0.50	< 0.25	< 0.50	51	44
SB-33-8.5	8.5	SB-33	3/17/2011	8.9	6.6	140	0.42	0.38	27	6.8	72	69	0.32	1.2	22	< 0.50	< 0.25	< 0.50	37	110
SB-33-12.5	12.5	SB-33	3/17/2011	5.3	5.6	110	0.40	< 0.25	27	12	14	6.7	0.074	0.91	34	< 0.50	< 0.25	< 0.50	32	28
SB-34-2.5	2.5	SB-34	3/17/2011	20	14	170	32	0.73	31	9.2	160	680	0.19	0.63	34	< 0.50	< 0.25	< 0.50	38	250
SB-34-8.5	8.5	SB-34	3/17/2011	4.1	3.1	120	0.47	< 0.25	27	6.5	18	24	0.19	0.54	22	< 0.50	< 0.25	< 0.50	28	36
SB-34-10.5	10.5	SB-34	3/17/2011	4.2	2.4	93	0.39	0.49	24	3.3	36	250	0.42	0.78	15	< 0.50	< 0.25	< 0.50	12	100
SB-35-2.5	2.5	SB-35	3/17/2011	8.2	7.7	160	0.43	0.31	28	10	70	78	0.54	0.68	33	< 0.50	< 0.25	< 0.50	44	120
SB-35-8.5	8.5	SB-35	3/17/2011	5.5	3.1	67	0.28	0.46	14	5.8	26	17	0.20	0.60	14	< 0.50	< 0.25	< 0.50	20	56
SB-35-12.5	12.5	SB-35	3/17/2011	6.1	3.1	220	0.26	0.43	19	4.3	28	65	0.21	0.97	23	< 0.50	< 0.25	< 0.50	23	200
SB-36-2.5	2.5	SB-36	3/15/2011	11	3.6	180	0.46	< 0.25	38	13	68	86	0.28	0.76	42	< 0.50	< 0.25	< 0.50	46	180
SB-36-6.5	6.5	SB-36	3/15/2011	8.0	5.6	190	0.27	0.39	31	7.2	55	88	0.24	0.84	33	< 0.50	< 0.25	< 0.50	23	240
SB-36-12.5	12.5	SB-36	3/15/2011	15	24	130	0.30	6.1	64	8.5	88	160	0.76	2.6	42	< 0.50	1.5	< 0.50	32	2,600

**Table 2**  
**Summary of Analytical Results for Soil - Metals**  
**Proposed 64th and Christie Avenue Residential Building**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Depth (ft bgs)	Sample Location	Date	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
SB-37-2.5	2.5	SB-37	3/15/2011	6.6	4.7	210	0.46	< 0.25	28	8.7	37	72	0.34	0.55	37	< 0.50	< 0.25	< 0.50	28	190
SB-37-7.5	7.5	SB-37	3/15/2011	8.4	5.6	180	0.59	< 0.25	39	11	27	82	0.071	0.73	41	< 0.50	< 0.25	< 0.50	50	79
SB-37-12.5	12.5	SB-37	3/15/2011	15	7.0	390	0.27	1.2	59	7.5	210	1,500	< 0.020	2.0	35	< 0.50	< 0.25	< 0.50	42	1,300
SB-38-2.5	2.5	SB-38	3/15/2011	5.3	9.8	310	0.30	0.94	28	6.3	67	740	0.51	0.98	27	< 0.50	0.37	< 0.50	27	420
SB-38-7.5	7.5	SB-38	3/15/2011	26	4.5	200	0.30	1.1	38	13	44	240	< 0.020	2.0	43	< 0.50	0.30	< 0.50	37	420
SB-38-12.5	12.5	SB-38	3/15/2011	6.6	6.6	110	0.34	3.4	55	14	17	9.0	0.040	1.0	54	< 0.50	< 0.25	< 0.50	47	57
SB-39-2.5	2.5	SB-39	3/15/2011	3.9	12	62	0.27	< 0.25	21	7.8	13	3.1	0.060	1.4	32	< 0.50	< 0.25	1.5	24	33
SB-39-5.0	5.0	SB-39	3/15/2011	5.1	2.6	220	0.53	0.28	38	8.0	21	19	0.20	0.81	37	< 0.50	< 0.25	1.4	37	60
SB-39-12.5	12.5	SB-39	3/15/2011	5.2	4.4	130	0.36	0.44	35	7.2	12	6.0	0.040	1.0	31	< 0.50	< 0.25	< 0.50	39	38
SB-40-2.5	2.5	SB-40	3/15/2011	6.2	4.9	280	0.49	< 0.25	28	7.2	26	40	0.33	0.61	29	< 0.50	< 0.25	< 0.50	28	89
SB-40-7.5	7.5	SB-40	3/15/2011	6.6	2.2	130	0.53	< 0.25	49	11	16	5.0	0.049	0.42	70	< 0.50	< 0.25	< 0.50	39	28
SB-40-12.5	12.5	SB-40	3/15/2011	5.1	5.9	69	0.29	0.69	36	6.2	14	14	0.14	0.69	28	< 0.50	< 0.25	< 0.50	31	840
SB-41-2.5	2.5	SB-41	3/15/2011	9.1	5.3	300	0.45	0.39	46	9.7	190	200	0.84	0.75	52	< 0.50	0.39	< 0.50	36	300
SB-41-6.5	6.5	SB-41	3/15/2011	6.5	6.4	380	0.59	< 0.25	33	9.9	25	29	0.43	0.73	35	< 0.50	< 0.25	< 0.50	34	58
SB-41-12.5	12.5	SB-41	3/15/2011	8.1	2.5	210	0.47	< 0.25	17	7.6	17	18	0.15	1.2	20	< 0.50	< 0.25	< 0.50	33	57
<b>Residential Direct-Exposure ESL<sup>(1)</sup></b>				<b>31</b>	<b>22</b>	<b>15000</b>	<b>150</b>	<b>39</b>	<b>--</b>	<b>1400</b>	<b>31000</b>	<b>260</b>	<b>6.7</b>	<b>390</b>	<b>1500</b>	<b>390</b>	<b>390</b>	<b>6</b>	<b>78</b>	<b>23,000</b>
<b>TTLc values (mg/kg)<sup>(2)</sup></b>				<b>500</b>	<b>500</b>	<b>10,000</b>	<b>75</b>	<b>100</b>	<b>2,500</b>	<b>8,000</b>	<b>2,500</b>	<b>1,000</b>	<b>20</b>	<b>3,500</b>	<b>2,000</b>	<b>100</b>	<b>500</b>	<b>700</b>	<b>2,400</b>	<b>5,000</b>

**Notes:**

ft bgs = Feet below ground surface

mg/kg = Milligrams per kilogram

< 0.25 = Not detected at or above the indicated laboratory reporting limit

-- = Not applicable

(1) Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL); Direct Exposure for Residential Use (DERU); HQ = 1 for Non-Carcinogens (Table K-1).

(2) TTLc = Total Threshold Limit Concentration

**Table 3**  
**Summary of Analytical Results for Groundwater - Petroleum Hydrocarbons and VOCs**  
**Proposed 64th and Christie Avenue Residential Building**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Date	TPHmo (mg/L)	TPHd (mg/L)	TPHg (mg/L)	VOCs												
					Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	sec-Bb (µg/L)	p-Iso T (µg/L)	Isopb (µg/L)	n-Bb (µg/L)	Pbz (µg/L)	Naph (µg/L)	1,2,4-Tmb (µg/L)	1,3,5-Tmb (µg/L)
GW-8	3/16/2011	< 0.3 / 1.4	< 0.050 / 1.000 Y	< 0.050	< 0.5	< 0.5	< 0.5	< 0.5	2.6	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
GW-9	3/16/2011	< 0.3 / 3.9	< 0.050 / 3.600 Y	< 0.050	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.8
GW-10	3/15/2011	< 0.3 / 4.8	< 0.050 / 4.900 Y	< 0.050	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.6
GW-11	3/15/2011	< 0.3 / 6.6	0.130 Y / 5.900 Y	0.18	< 0.5	2.0	< 0.5	0.6	< 0.5	0.6	< 0.5	< 0.5	< 0.5	0.7	3.1	1.9	< 0.5
GW-12	3/15/2011	< 0.3 / 11.0	0.130 Y / 10.000 Y	0.150 Y	< 0.5	< 0.5	< 0.5	0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	1.1	< 0.5
GW-13	3/15/2011	< 0.3 / 3.5	0.120 Y / 3.300 Y	0.420	< 0.5	1.5	1.0	9.9	< 0.5	1.5	2.5	0.7	2.2	1.8	< 0.5	36.0	9.4
TB-1	3/15/2011	--	--	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
<b>Non-Drinking Water Ceiling Level<sup>(1)</sup></b>		2.5	2.5	5.0	20,000	400	300	5,300	1,800	--	--	--	--	--	210	--	--

**Notes:**

mg/L = Milligrams per liter

µg/L = Micrograms per liter

Y = Sample exhibits chromatographic pattern which does not resemble standard

< 300 / 1,400 = Indicates sample results with / without silica gel cleanup

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

-- = Not Analyzed

TPHmo = Total petroleum hydrocarbons quantified as motor oil

TPHd = Total petroleum hydrocarbons quantified as diesel

TPHg = Total petroleum hydrocarbons quantified as gasoline

MTBE = Methyl Tert-Butyl Ether

sec-Bb = sec-Butylbenzene

p-Iso T = para-Isopropyl Toluene

Isopb = Isopropylbenzene

n-Bb = n-Butylbenzene

Pbz = Propyl Benzene

Naph = Naphthalene

1,2,4-Tmb = 1,2,4-Trimethylbenzene

1,3,5-Tmb = 1,3,5-Trimethylbenzene

(1) California Regional Water Quality Control Board, San Francisco Region (RWQCB) Environmental Screening Level (ESL), Non-Drinking Water Gross Contamination Ceiling Levels (Table I-2; May 2008)

**Table 4**  
**Summary of Analytical Results for Groundwater - Dissolved Metals**  
**Proposed 64th and Christie Avenue Residential Building**  
**6340 and 6390 Christie Avenue**  
**Emeryville, CA**

Sample ID	Date	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
GW-8	3/16/2011	< 10	< 7.1	<b>400</b>	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	<b>24</b>	<b>12</b>	< 10	< 5.0	< 10	<b>9.8</b>	< 20
GW-9	3/16/2011	< 10	< 7.1	<b>690</b>	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 5.0	<b>7.5</b>	< 10	< 5.0	< 10	< 5.0	< 20
GW-10	3/15/2011	< 10	< 7.1	<b>190</b>	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	<b>9.3</b>	<b>11</b>	< 10	< 5.0	< 10	<b>10</b>	<b>75</b>
GW-11	3/15/2011	< 10	< 7.1	<b>1,400</b>	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 0.20	< 5.0	<b>6.0</b>	< 10	< 5.0	< 10	< 5.0	< 20
GW-12	3/15/2011	< 10	<b>25</b>	<b>4,500</b>	< 2.0	< 5.0	< 5.0	<b>5.6</b>	< 5.0	< 5.0	< 0.20	< 5.0	< 5.0	< 10	< 5.0	< 10	<b>6.0</b>	<b>37</b>
GW-13	3/15/2011	< 10	< 7.1	<b>210</b>	< 2.0	< 5.0	< 5.0	< 5.0	< 5.0	<b>12</b>	< 0.20	< 5.0	<b>9.7</b>	< 10	< 5.0	< 10	< 5.0	<b>36</b>
<b>Non-Drinking Water Ceiling Level <sup>(1)</sup></b>		<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>

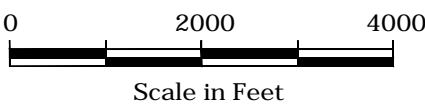
**Notes:**

&lt; 10 = Not detected at or above the indicated laboratory reporting limit

µg/L = Micrograms per liter

(1) California Regional Water Quality Control Board, San Francisco Region (RWQCB) Environmental Screening Level (ESL), Non-Drinking Water Gross Contamination Ceiling Levels (Table I-2;

**PLATES**



U.S.G.S. Topo Map - Oakland West, California, 7.5-minute quadrangle. 1997

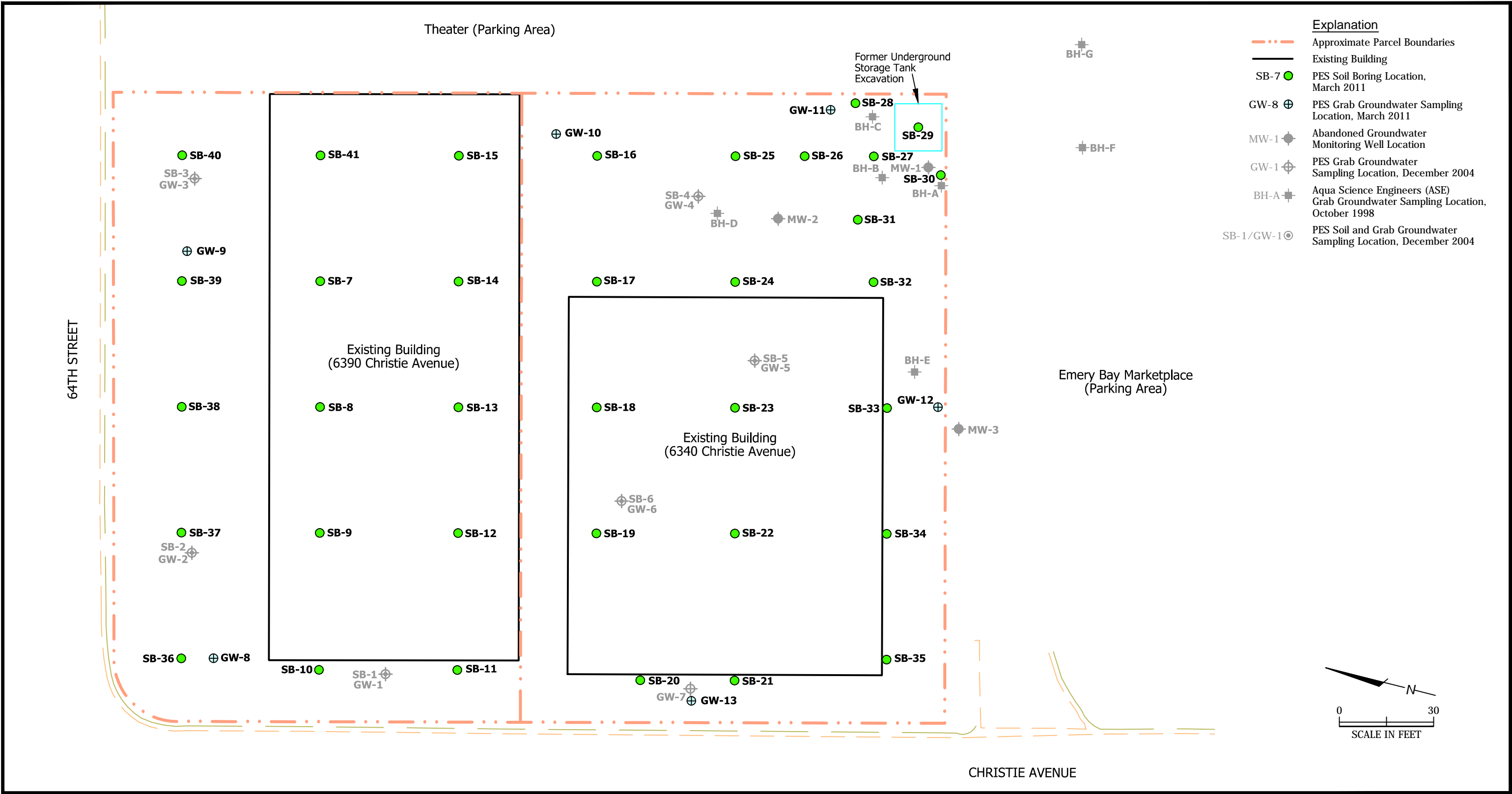
**Site Location Map**  
 Pre-Excavation Investigation  
 and Preliminary Soil Characterization  
 Proposed 64th and Christie Residential Building  
 6340 and 6390 Christie Avenue  
 Emeryville, California

PLATE  
**1**





**Site Plan and Vicinity Map**  
 Pre-Excavation Investigation  
 and Preliminary Soil Characterization  
 Proposed 64th and Christie Residential Building  
 6340 and 6390 Christie Avenue  
 Emeryville, California





**APPENDIX A**

**ALAMEDA COUNTY PUBLIC WORKS AGENCY DRILLING PERMIT**

# 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: 03/03/2011 By jamesy

Permit Numbers: W2011-0129  
Permits Valid from 03/14/2011 to 03/18/2011

Application Id: 1298938008592  
Site Location: South East Corner of 64th St & 6340 and 6390 Christie Avenue.  
Project Start Date: 03/14/2011  
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site: Emeryville  
Completion Date: 03/18/2011

Applicant: PES Environmental, Inc. - Simmons Ken  
1682 Novato Blvd, Suite 100, Novato, CA 94947  
Property Owner: Rockwood Christie LLC c/o TMG Partners  
100 Bush Street, 26th floor, San Francisco, CA 94104  
Client: \*\* same as Property Owner \*\*  
Contact: Ken Simmons

Phone: 415-899-1600  
Phone: --  
Phone: 415-892-8763 x276  
Cell: 415-497-2741

Receipt Number: WR2011-0061 Total Due: \$265.00  
Payer Name : PES Environmental Total Amount Paid: \$265.00  
Paid By: CHECK PAID IN FULL

## Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitoring Study - 41 Boreholes  
Driller: Gregg Drilling & Testing, Inc. - Lic #: 485165 - Method: DP

Work Total: \$265.00

## Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0129	03/03/2011	06/12/2011	41	2.00 in.	16.00 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. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org 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.
5. 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.

## **Alameda County Public Works Agency - Water Resources Well Permit**

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a 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.

7. 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**

**LITHOLOGIC 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/6IN - Blows required to drive sampler 6 inches as indicated on the logs using sample drive hammer weight of 140 pounds falling 30 inches.
- (10,60,30) - Percent gravel, percent sand, percent silt/clay
- 2.5YR 6/2 - Soil Color according to Munsell Soil Color Charts (1994 Revised Edition)
- feet MSL - feet above Mean Sea 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**  
Proposed 64th and Christie Residential Building  
Emeryville, CA

PLATE

**B-0**

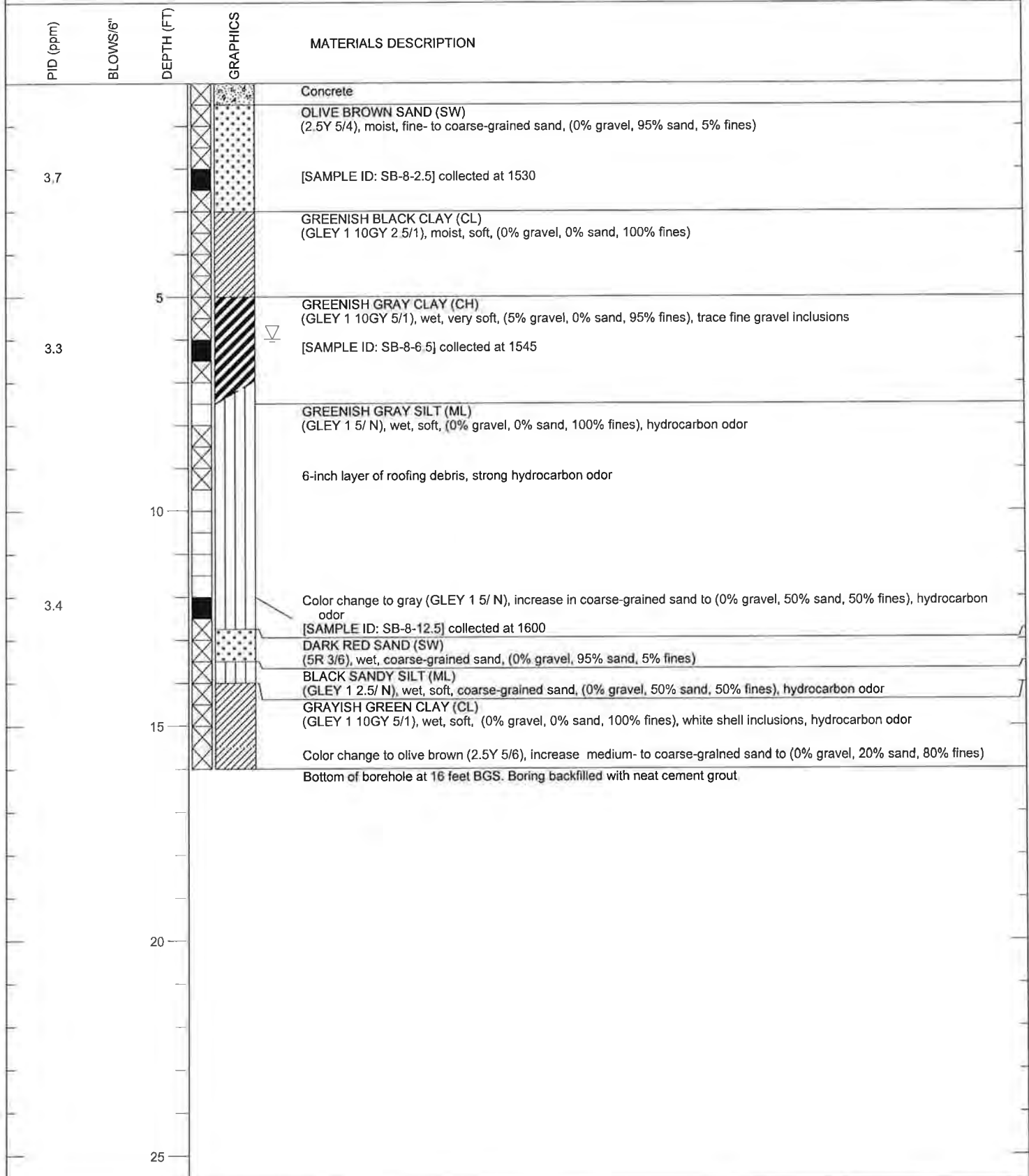


PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Concrete
2.8				GREENISH BLACK CLAY (CL) (GLEY 2 10G 2.5/1), moist, medium soft, (0% gravel, 0% sand, 100% fines), light green mottles, glass shards, reddish inclusions, organic odor  [SAMPLE ID: SB-7-2.5] collected at 1435
3.6		5		Color change to greenish grey (GLEY 1 10GY 5/1) moisture change to wet, increase in medium- to coarse-grained sand content to (5% gravel, 10% sand, 85% fines), iron oxide mottles [SAMPLE ID: SB-7-5.0] collected at 1450
3.6		10		BLACK CLAY (CH) (GLEY 1 2.5/ N) wet, very soft, (0% gravel, 0% sand, 100% fines), very strong asphalt odor  [SAMPLE ID: SB-7-12.0] collected at 1515
		12 to 16		No recovery from 12 to 16 feet BGS
		16		Bottom of borehole at 16 feet BGS. Boring backfilled with neat cement grout.
		20		
		25		

PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/14/11  
 DATE COMPLETED 3/14/11

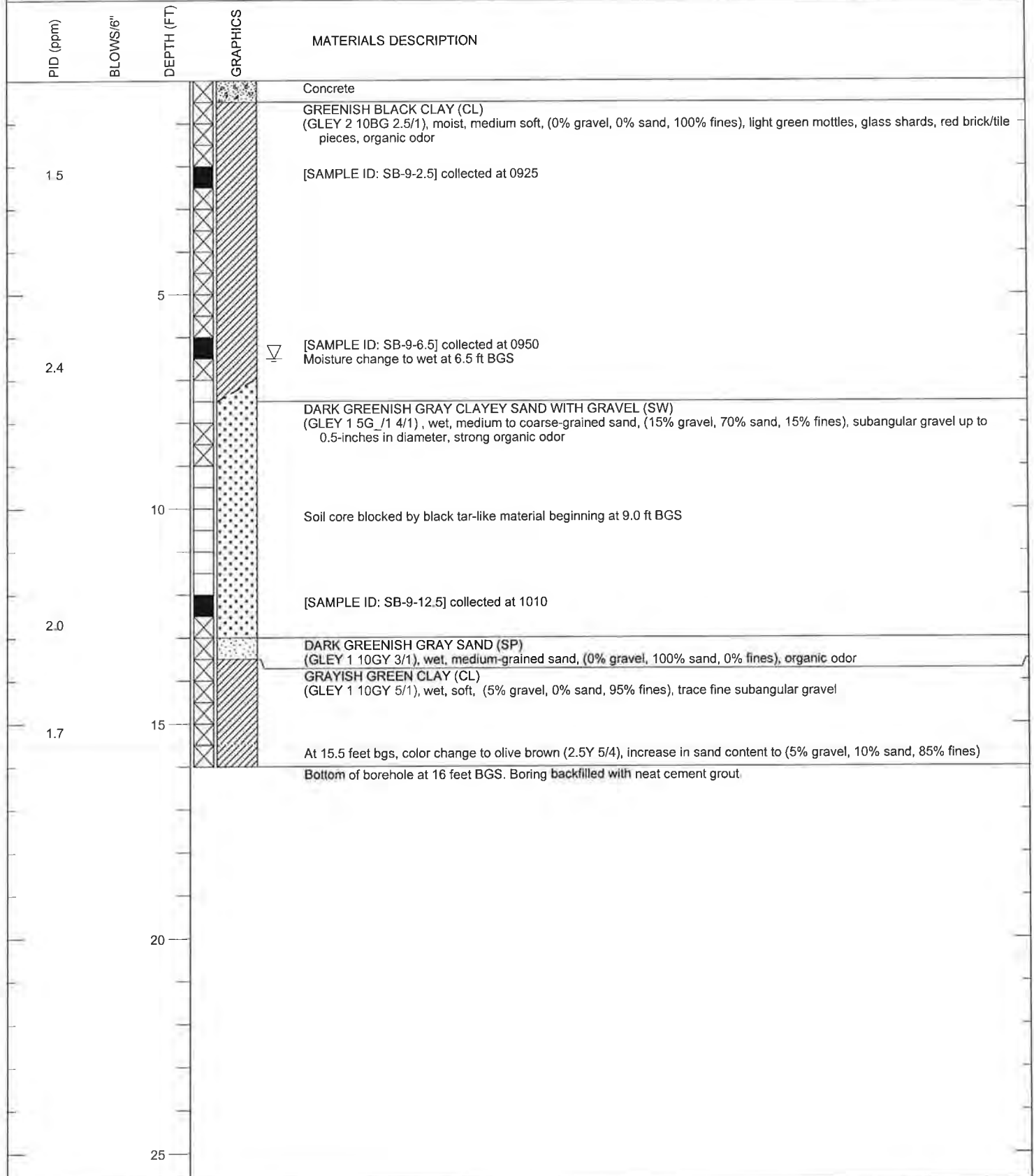
PLATE  
**B-1**



PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/14/11  
 DATE COMPLETED 3/14/11

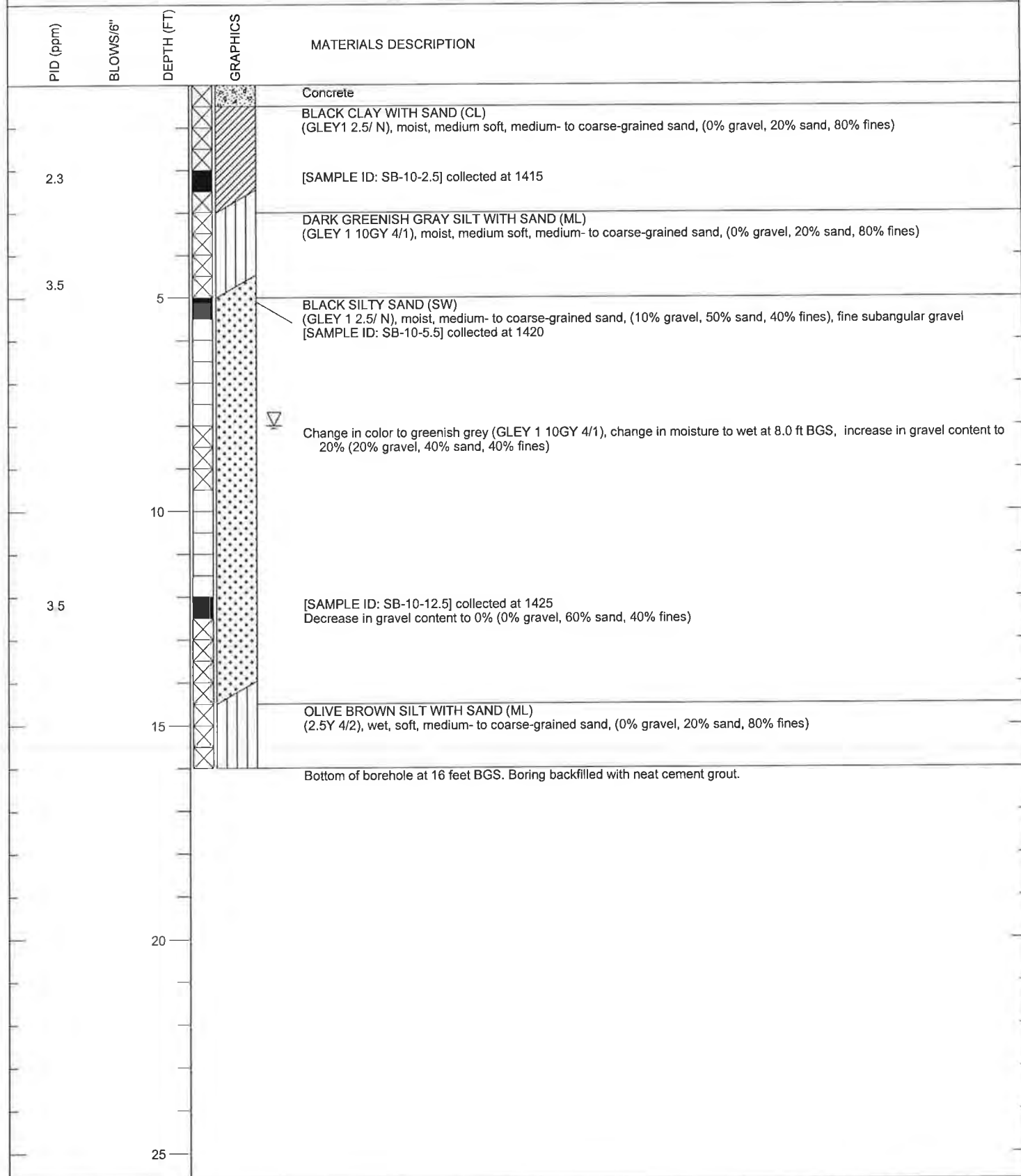
PLATE  
**B-2**



PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/14/11
DRILL RIG	Direct Push	DATE COMPLETED	3/14/11

PLATE  
**B-3**



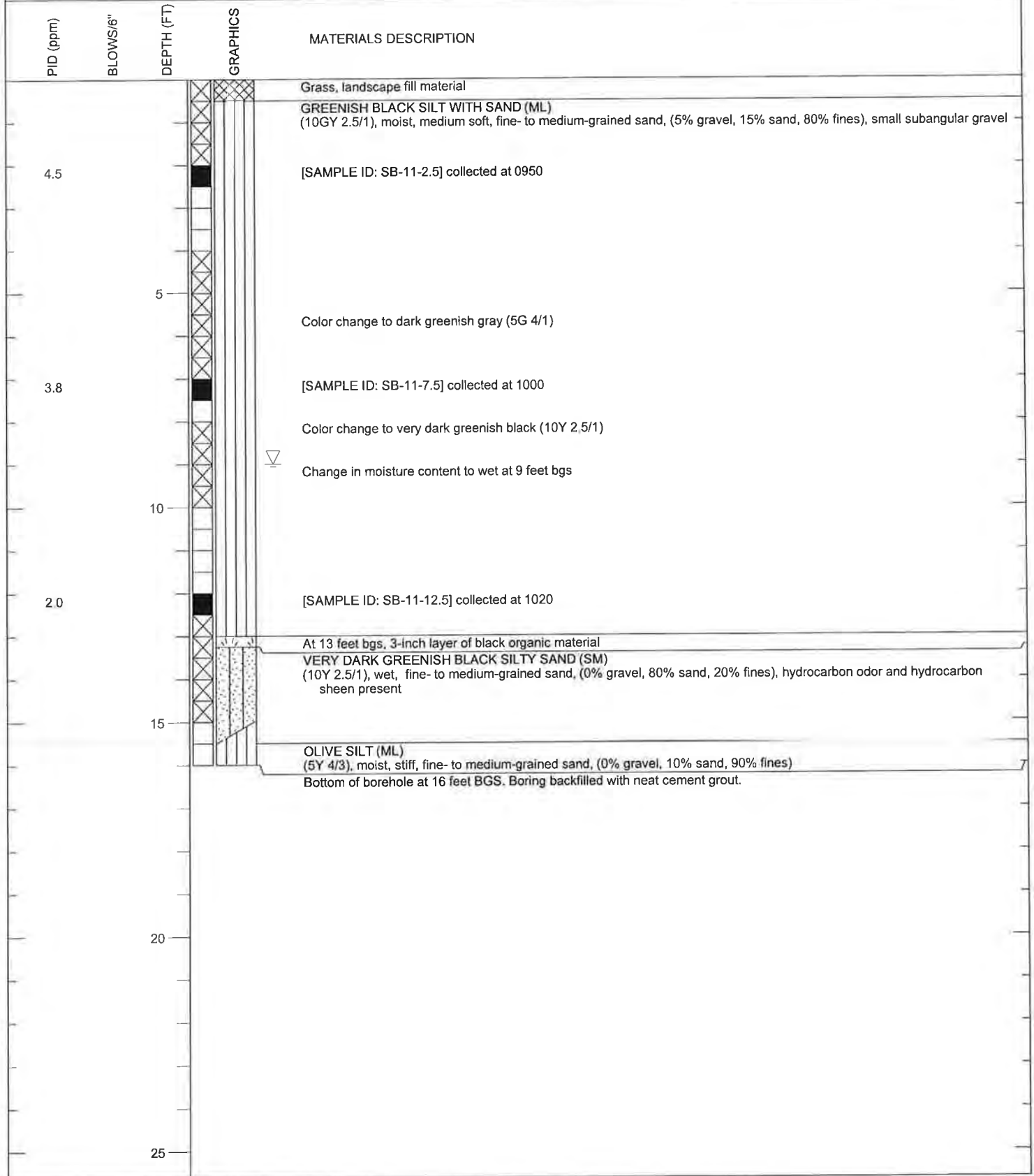


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER John Alexander  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/15/11  
 DATE COMPLETED 3/15/11

PLATE

**B-4**

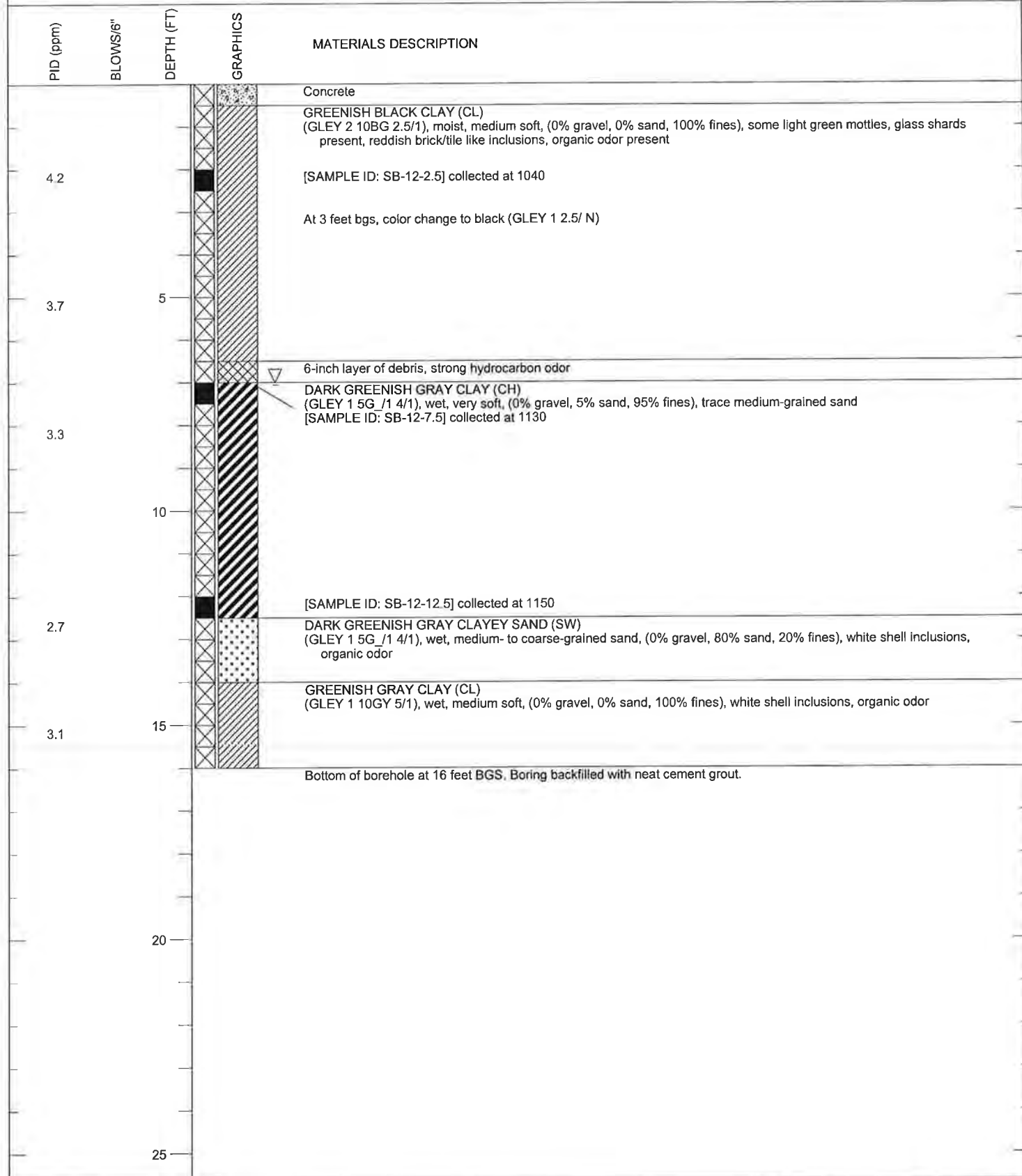


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Justin Patterson  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

PLATE

**B-5**



PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/14/11
DRILL RIG	Direct Push	DATE COMPLETED	3/14/11

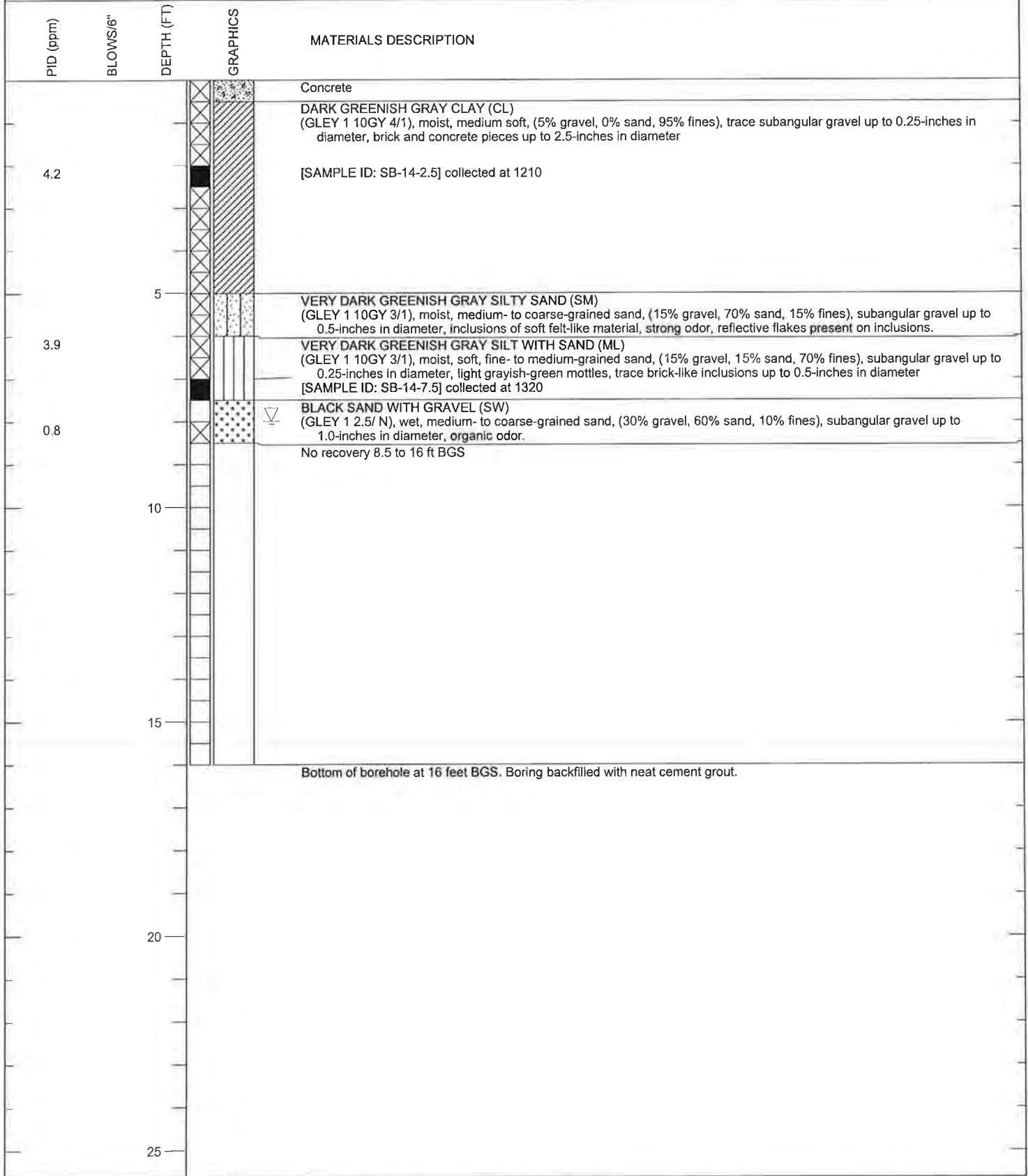
PLATE  
**B-6**



PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Concrete
0.8				DARK GREENISH GRAY CLAY (CL) (GLEY 1 10GY 4/1), moist, medium soft, (5% gravel, 0% sand, 95% fines), trace subangular gravel up to 0.25-inches in diameter, brick and concrete pieces up to 2.5-inches in diameter  [SAMPLE ID: SB-13-2.5] collected at 1430
		5		No recovery 4 to 16 ft BGS
		10		
		15		
				Bottom of borehole at 16 feet BGS. Boring backfilled with neat cement grout.
		20		
		25		

PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/15/11
DRILL RIG	Direct Push	DATE COMPLETED	3/15/11

PLATE  
**B-7**

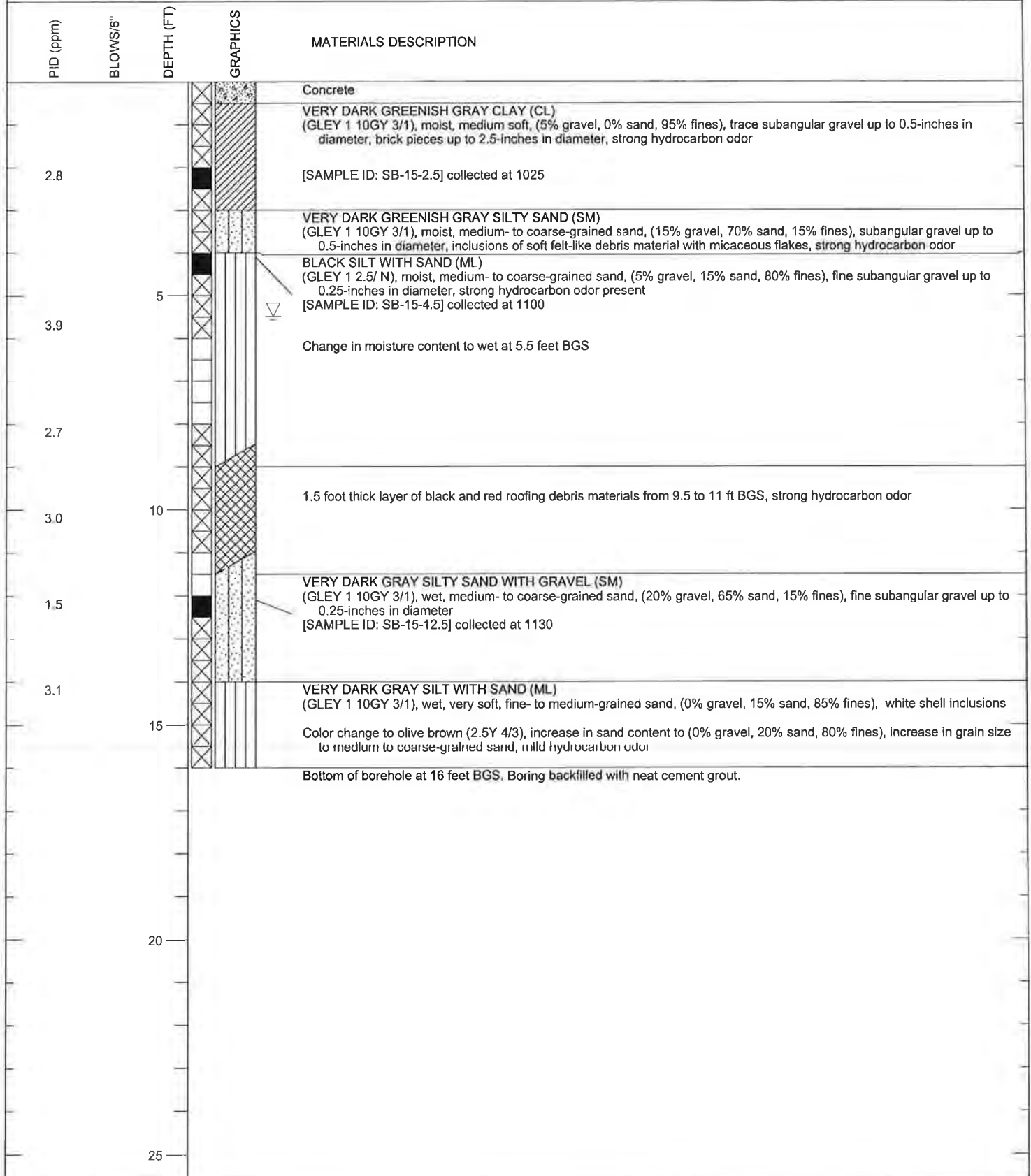


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/15/11  
 DATE COMPLETED 3/15/11

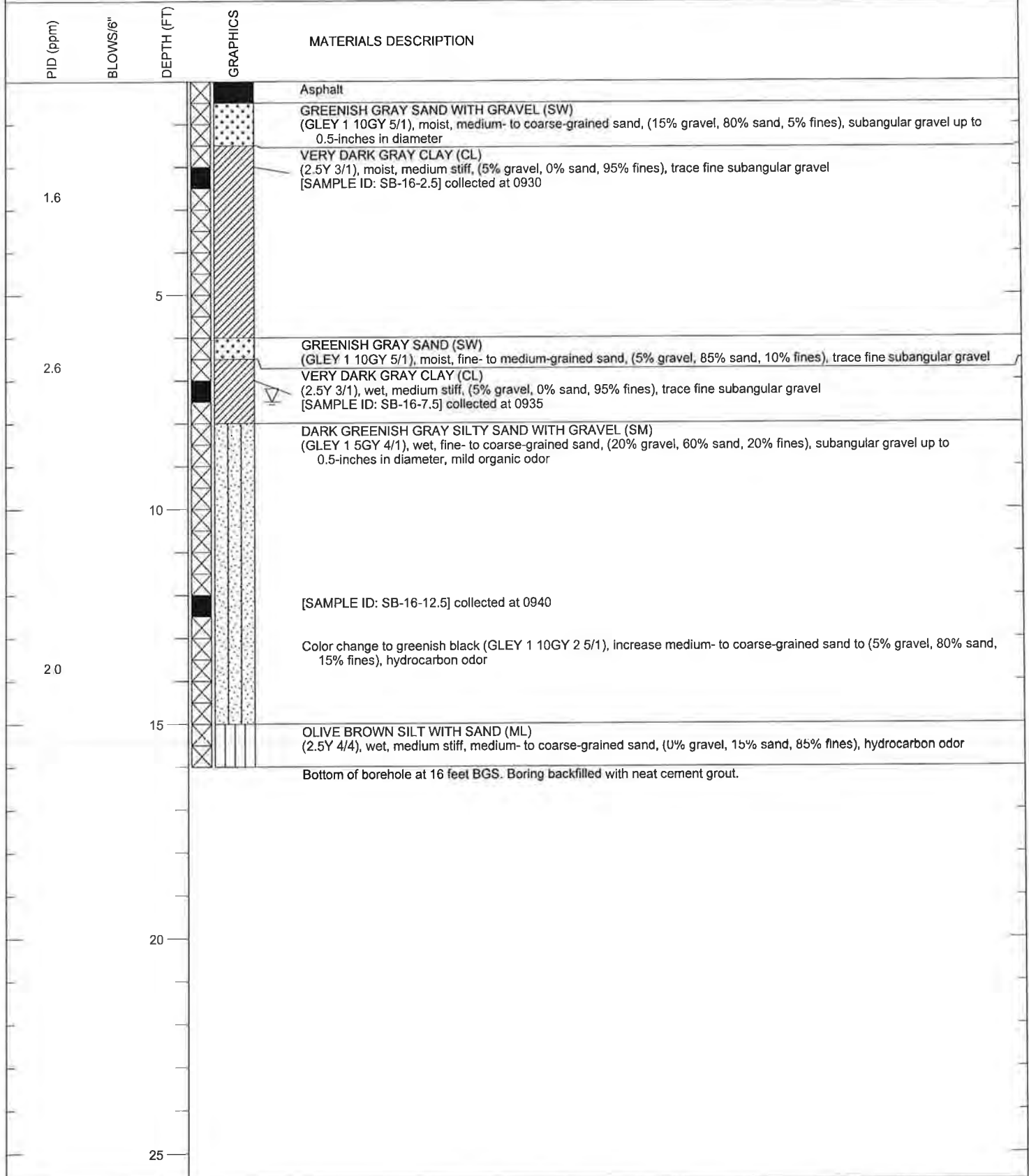
PLATE

**B-8**



PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/15/11
DRILL RIG	Direct Push	DATE COMPLETED	3/15/11

PLATE  
**B-9**

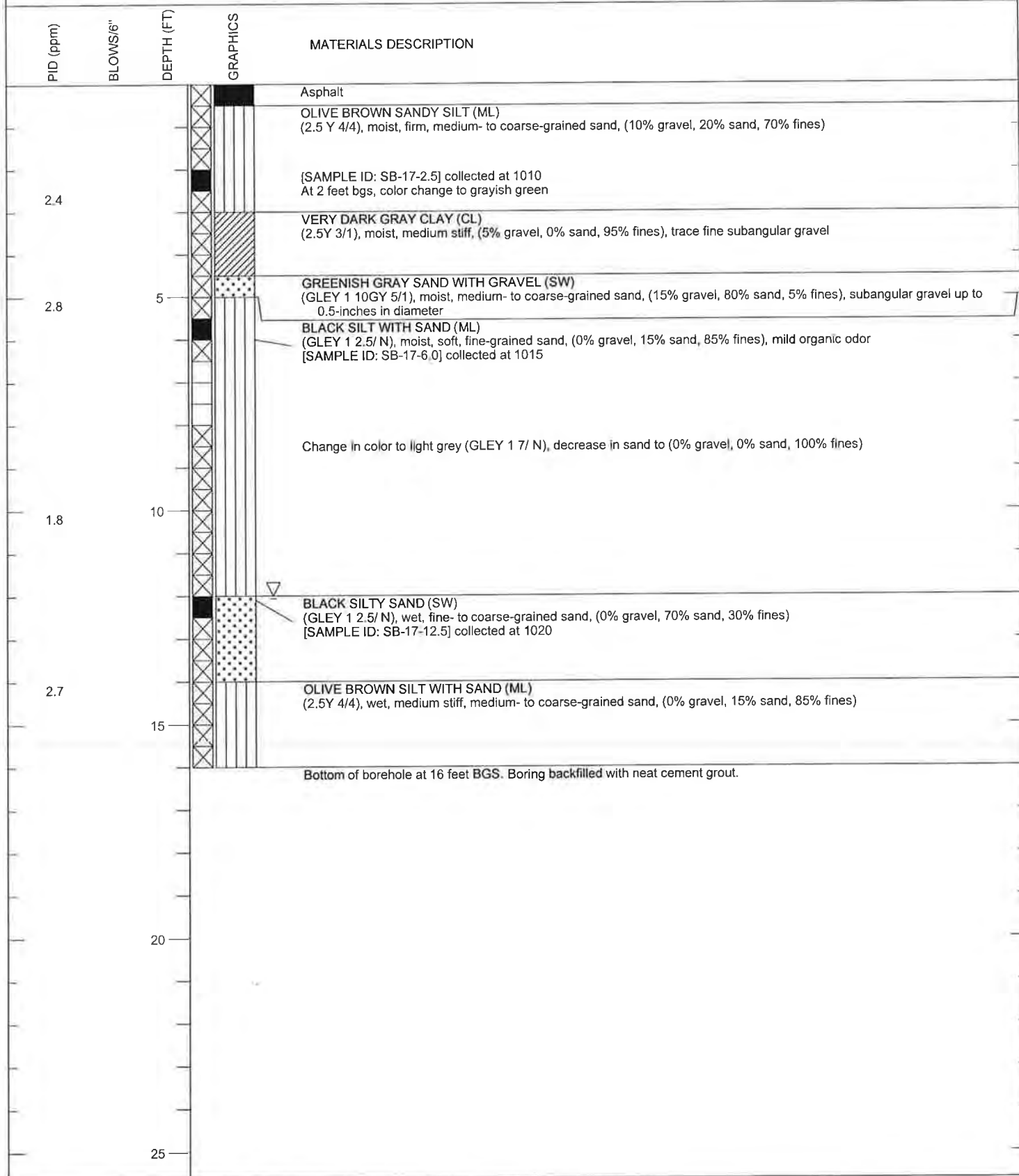


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/16/11  
 DATE COMPLETED 3/16/11

PLATE

**B-10**

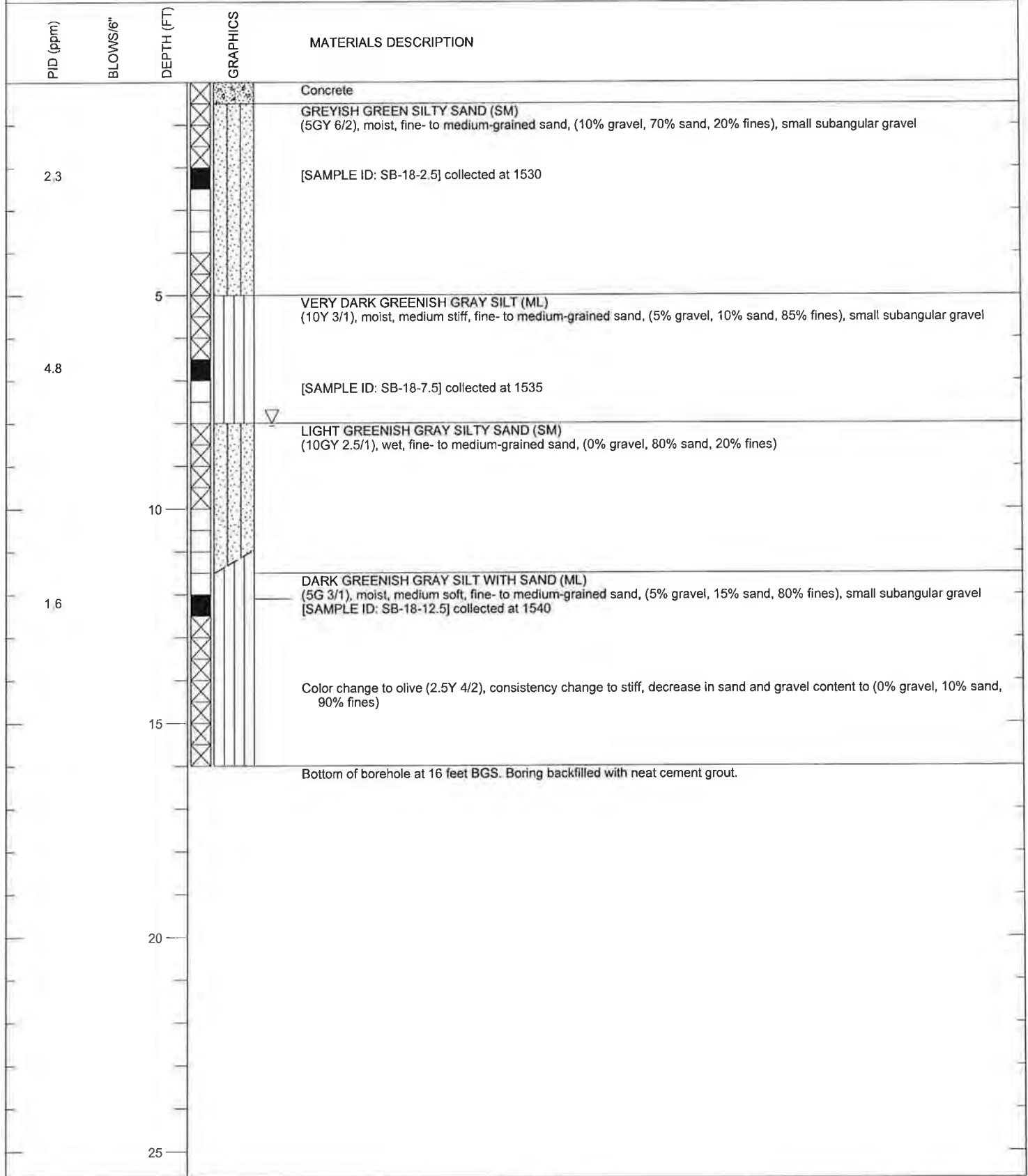


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/16/11  
 DATE COMPLETED 3/16/11

PLATE  
**B-11**





PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Justin Patterson  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

PLATE  
**B-12**



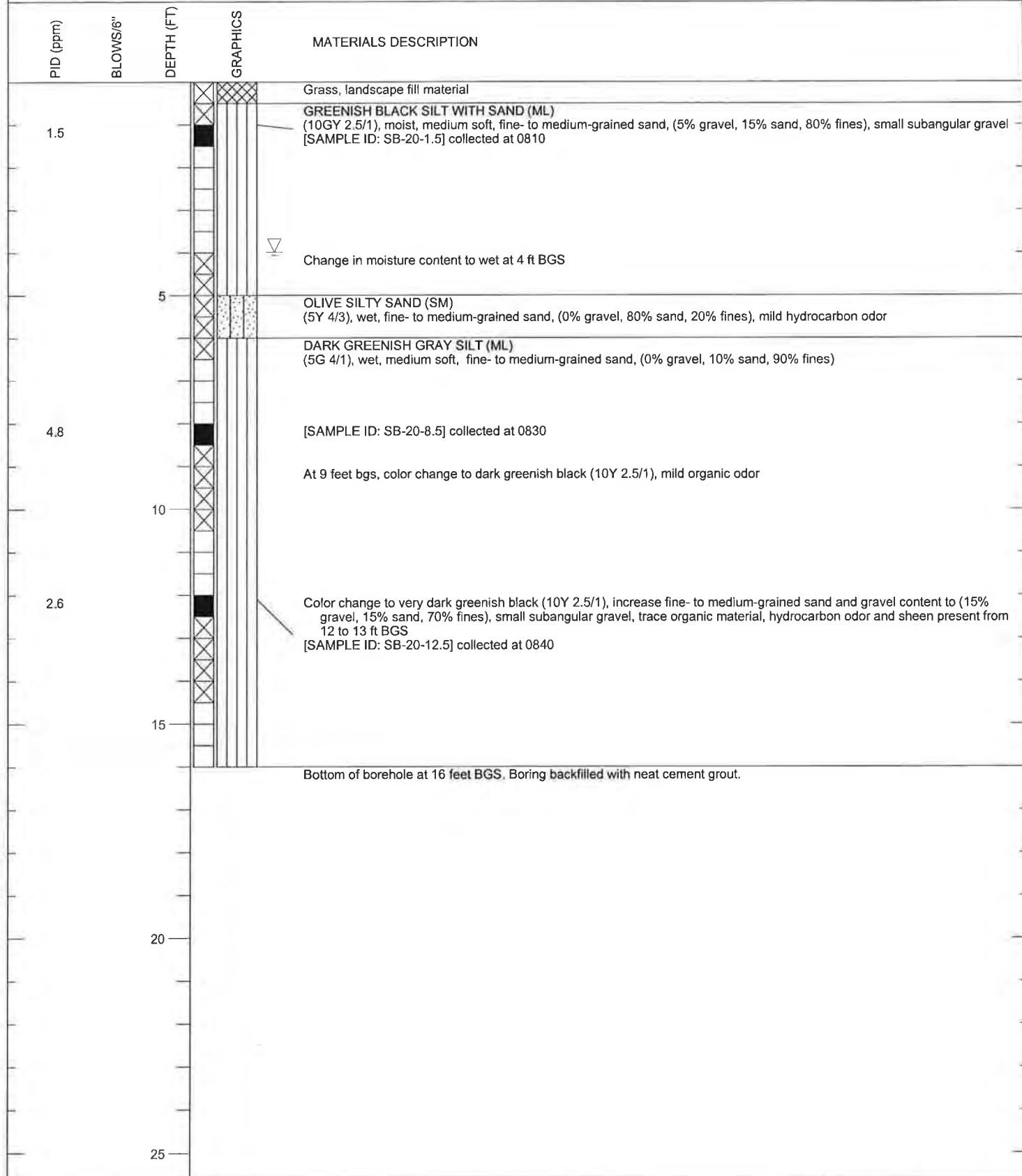
PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Concrete
				GREYISH GREEN SILTY SAND (SM) (5GY 6/2), moist, fine- to medium-grained sand, (10% gravel, 70% sand, 20% fines), small subangular gravel
4.4				VERY DARK GREENISH GRAY SILT (ML) (10Y 3/1), moist, medium stiff, fine- to medium-grained sand, (5% gravel, 10% sand, 85% fines), small subangular gravel [SAMPLE ID: SB-19-2.5] collected at 1430
		5		Slight hydrocarbon odor at 5.5 ft BGS
3.1				[SAMPLE ID: SB-19-7.5] collected at 1435
		8.0		Color change to greenish gray (10Y 5/1) at 8.0 ft BGS
		10		VERY DARK GREENISH GRAY SILTY SAND (SM) (10Y 2.5/1), moist, fine- to medium-grained sand, (0% gravel, 80% sand, 20% fines)
		11		Change in moisture content to wet at 11 ft BGS
4.1				[SAMPLE ID: SB-18-12.5] collected at 1540
		13.5		At 13.5 feet bgs, increase in gravel content to (5% gravel, 75% sand, 20% fines)
		15		
		16		Bottom of borehole at 16 feet BGS. Boring backfilled with neat cement grout.
		20		
		25		

PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Justin Patterson  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

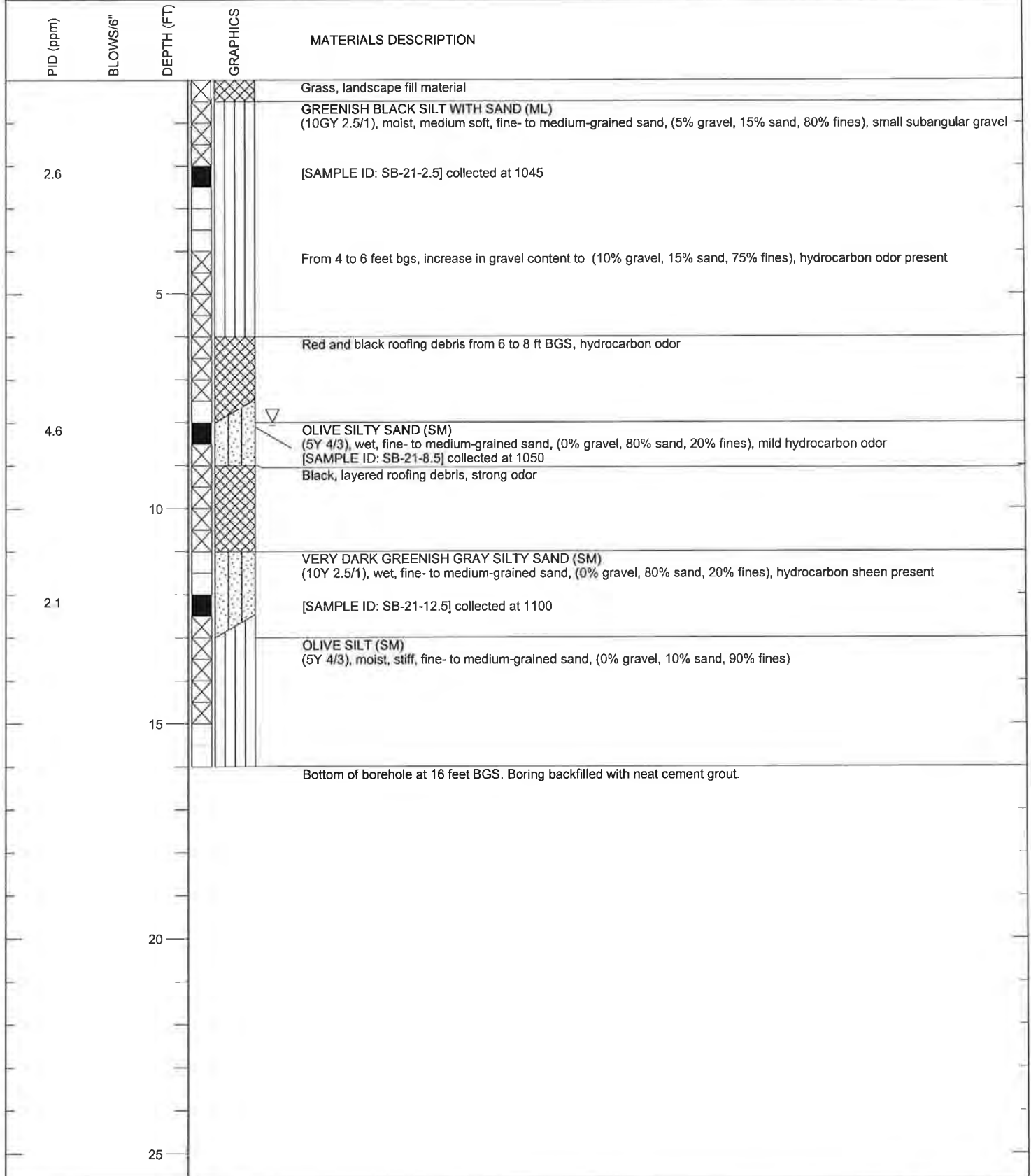
PLATE

**B-13**



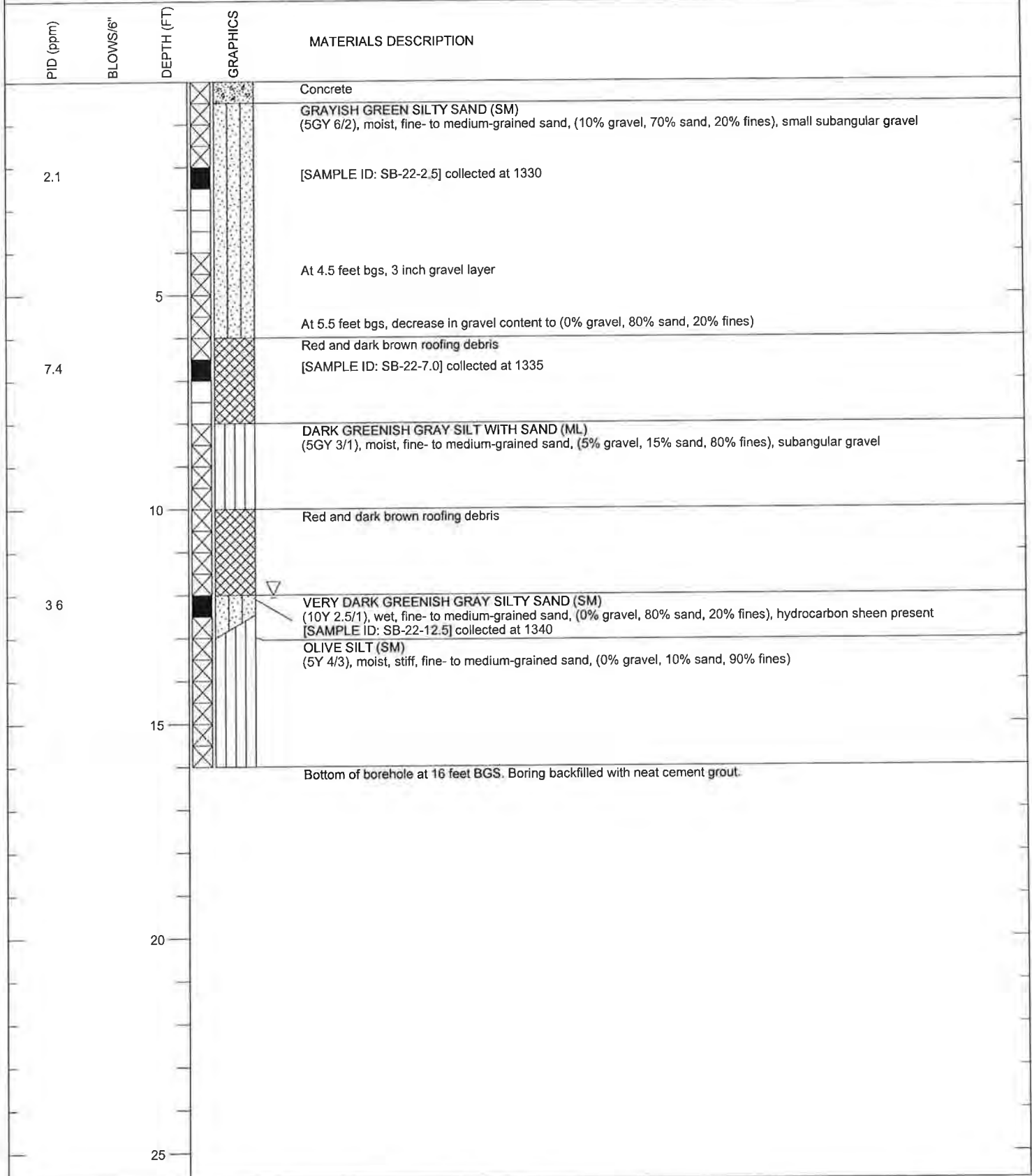
PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Justin Patterson	DATE STARTED	3/17/11
DRILL RIG	Direct Push	DATE COMPLETED	3/17/11

PLATE  
**B-14**



PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Justin Patterson	DATE STARTED	3/17/11
DRILL RIG	Direct Push	DATE COMPLETED	3/17/11

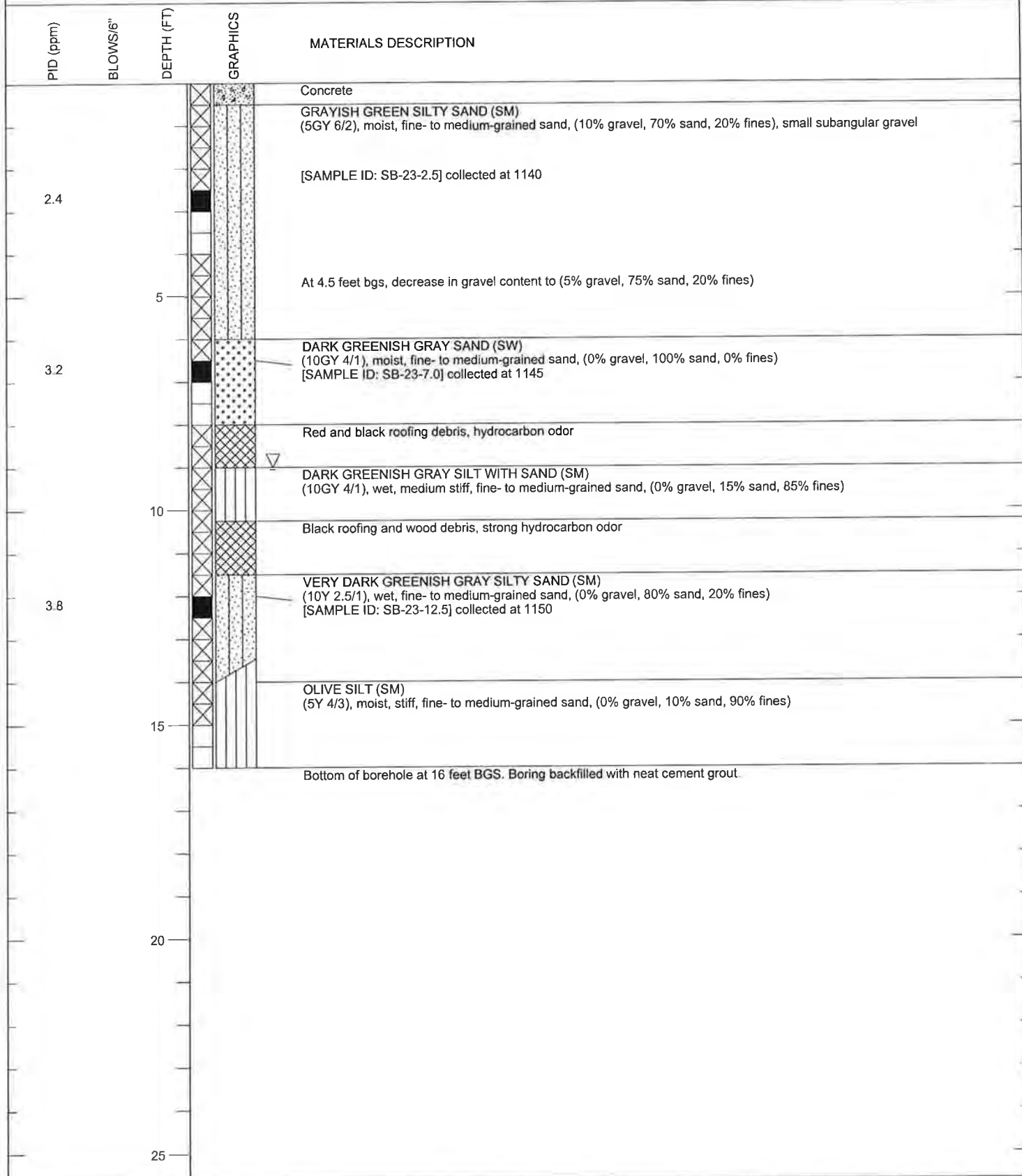
PLATE  
**B-15**



PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Justin Patterson  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

PLATE  
**B-16**

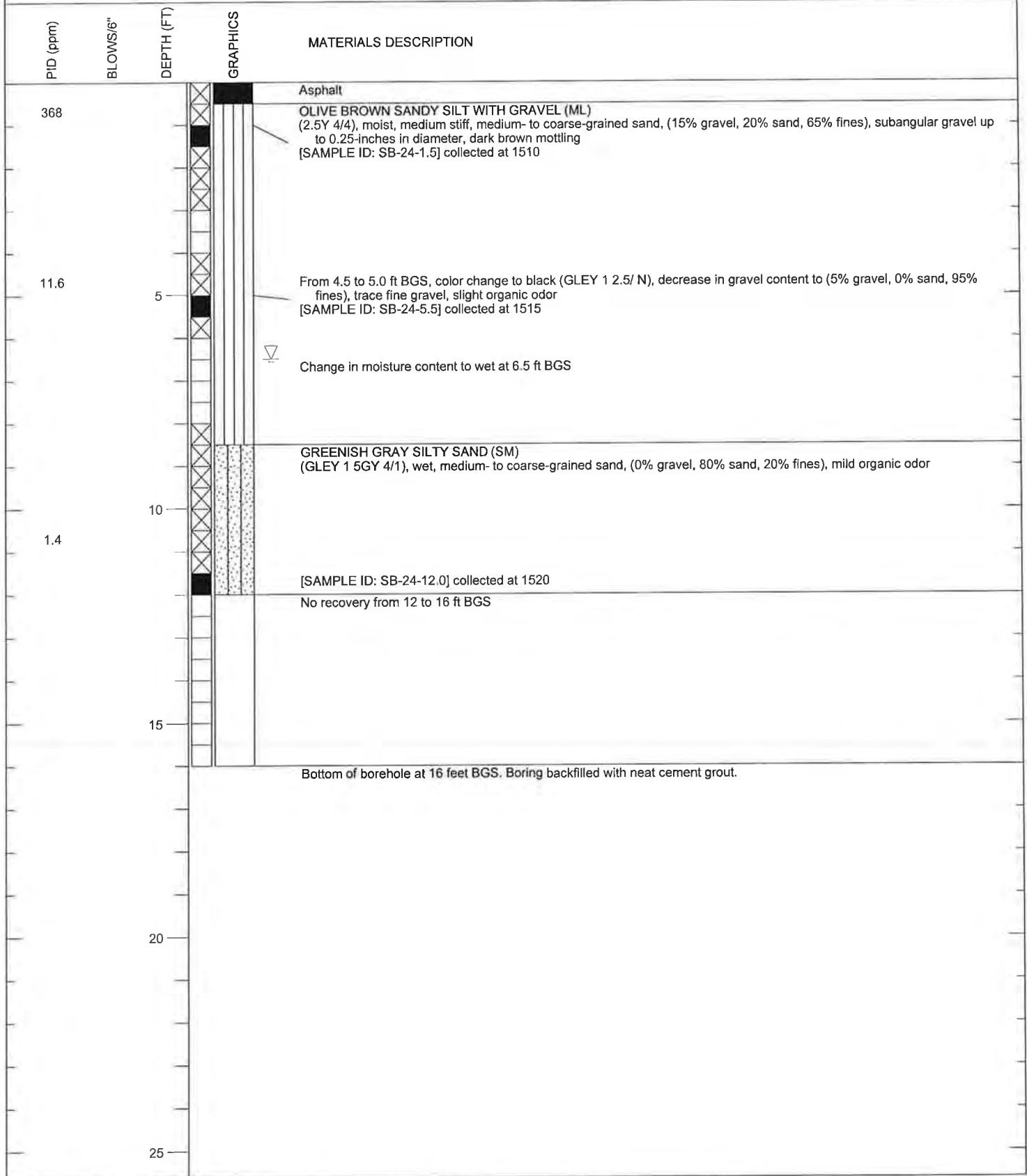


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Justin Patterson  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

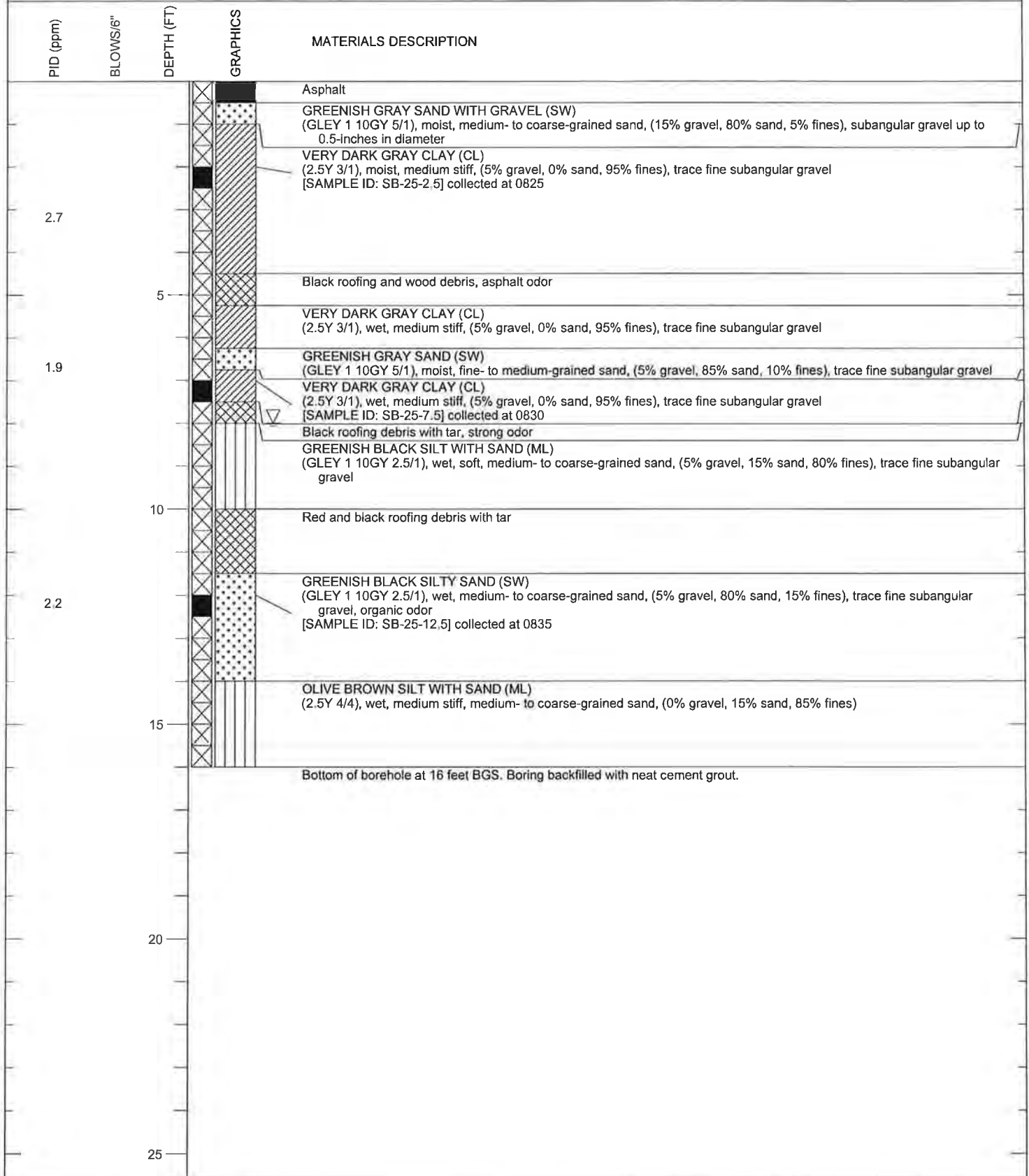
PLATE

**B-17**



PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/16/11
DRILL RIG	Direct Push	DATE COMPLETED	3/16/11

PLATE  
**B-18**



PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/16/11
DRILL RIG	Direct Push	DATE COMPLETED	3/16/11

PLATE  
**B-19**

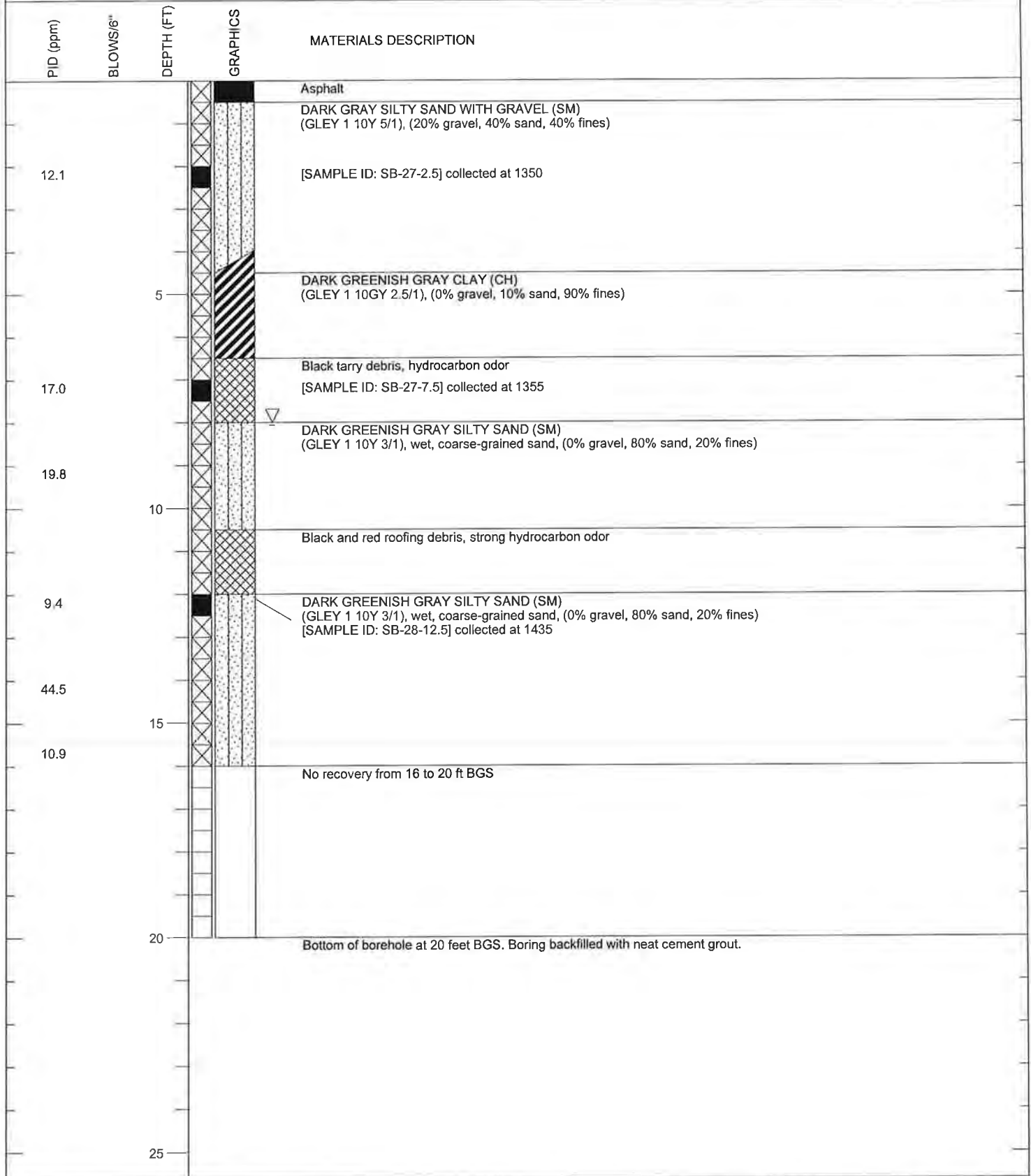




PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Asphalt
51.2				GREENISH GRAY SILTY SAND (SM) (GLEY 1 10GY 5/1), moist, medium- to coarse-grained sand, (5% gravel, 80% sand, 15% fines), subangular gravel up to 0.5-inches in diameter
				GREENISH GRAY SILT WITH SAND (ML) (GLEY 1 10GY 5/1), moist, medium stiff, medium- to coarse-grained sand, (5% gravel, 15% sand, 85% fines), subangular gravel up to 0.5-inches in diameter [SAMPLE ID: SB-26-1.5] collected at 1210
		5		GREENISH GRAY SILTY SAND (SM) (GLEY 1 10GY 5/1), moist, medium- to coarse-grained sand, (0% gravel, 85% sand, 15% fines)
6.3				GREENISH GRAY SILT (ML) (GLEY 1 10GY 5/1), moist, medium stiff, (0% gravel, 0% sand, 100% fines) [SAMPLE ID: SB-26-6.5] collected at 1220
				Lense of subangular gravel up to 1-inch in diameter Black tarry debris, hard, strong asphalt odor
3.0				
		10		DARK GRAY SILTY SAND (SM) (GLEY 1 2.5/ N), wet, fine- to coarse-grained sand, (5% gravel, 80% sand, 15% fines), trace fine subangular gravel up to 0.5-inches in diameter, hydrocarbon odor  [SAMPLE ID: SB-26-12.5] collected at 1240
2.1				Black tarry debris, hard, strong asphalt odor
		15		OLIVE BROWN SILT WITH SAND (ML) (2.5Y 4/4), wet, soft, fine- to medium-grained sand, (0% gravel, 15% sand, 85% fines)
				DARK GRAY SILTY SAND (SM) (GLEY 1 2.5/ N), wet, fine- to coarse-grained sand, (5% gravel, 80% sand, 15% fines), trace fine subangular gravel up to 0.5-inches in diameter, hydrocarbon odor
4.1		20		OLIVE BROWN SILT WITH SAND (ML) (2.5Y 4/4), wet, soft, fine- to medium-grained sand, (0% gravel, 15% sand, 85% fines) [SAMPLE ID: SB-26-20.0] collected at 1255
				Bottom of borehole at 20 feet BGS. Boring backfilled with neat cement grout.
		25		

PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	20 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/17/11
DRILL RIG	Direct Push	DATE COMPLETED	3/17/11

PLATE  
**B-20**



PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER John Alexander  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 20 feet  
 DATE STARTED 3/16/11  
 DATE COMPLETED 3/16/11

PLATE

**B-21**



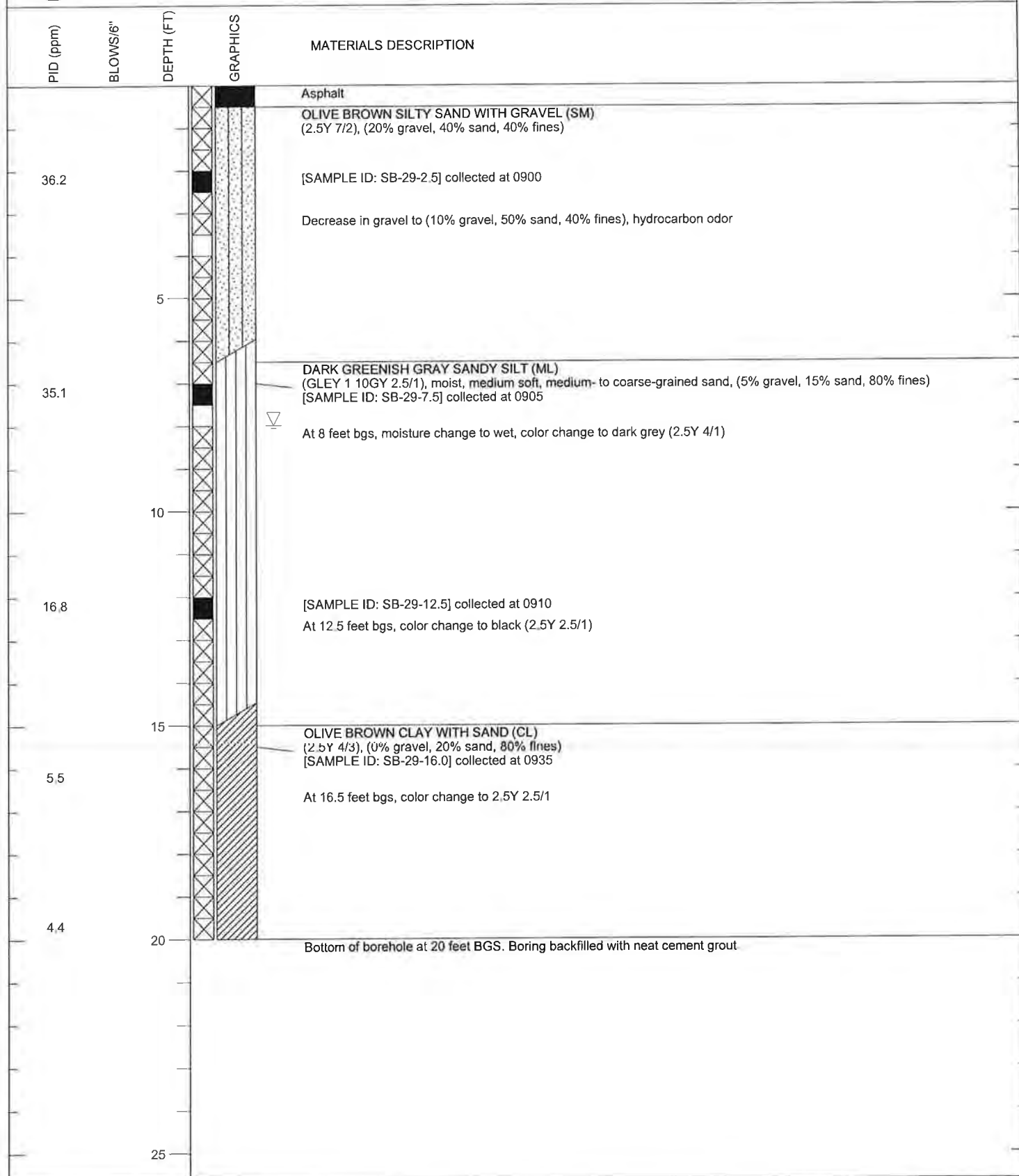
P/D (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Asphalt
0.7				GREENISH GRAY SILTY SAND (SM) (GLEY 1 5GY 4/1), dry, fine- to coarse-grained sand, (10% gravel, 70% sand, 20% fines), subangular gravel up to 0.25-inches in diameter [SAMPLE ID: SB-28-1.5] collected at 1400
		5		DARK GREENISH GRAY SANDY SILT (ML) (GLEY 1 10GY 2.5/1), moist, medium soft, medium- to coarse-grained sand, (5% gravel, 15% sand, 80% fines)  Decrease in gravel and sand content to (0% gravel, 0% sand, 100% fines)
2.9				Increase in gravel and sand content to (5% gravel, 15% sand, 80% fines) [SAMPLE ID: SB-28-7.5] collected at 1410
				DARK GREENISH GRAY SAND (SW) (GLEY 1 2.5/ N), wet, medium- to coarse-grained sand, (0% gravel, 90% sand, 10% fines), trace red and green coarse-grained sand At 9.0 to 9.5 ft BGS, black tarry debris, hard, strong odor
		10		Black tarry debris, hard, strong odor
2.7				DARK GREENISH GRAY SAND (SW) (GLEY 1 2.5/ N), wet, medium- to coarse-grained sand, (0% gravel, 90% sand, 10% fines), trace red and green coarse-grained sand, hydrocarbon odor [SAMPLE ID: SB-28-12.5] collected at 1435
		15		OLIVE BROWN SILT WITH SAND (ML) (2.5Y 4/4), wet, soft, fine- to medium-grained sand, (0% gravel, 15% sand, 85% fines) [SAMPLE ID: SB-28-16.0] collected at 1445 From 16.0 to 18.5, color change to black (GLEY 1 2.5/ N)
2.3				
2.7		20		[SAMPLE ID: SB-28-20.0] collected at 1505
				Bottom of borehole at 20 feet BGS. Boring backfilled with neat cement grout.
		25		

PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 20 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

PLATE

**B-22**



PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	20 feet
GEOLOGIST/ENGINEER	John Alexander	DATE STARTED	3/16/11
DRILL RIG	Direct Push	DATE COMPLETED	3/16/11

PLATE  
**B-23**



P/D (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Asphalt
27.1				DARK GREENISH GRAY SILT (ML) (GLEY 1 5GY 3/1), moist, stiff, fine- to medium-grained sand, (5% gravel, 10% sand, 85% fines), subangular gravel up to 0.25-inches in diameter, few iron oxide mottles [SAMPLE ID: SB-30-2.0] collected at 1535
				DARK GREENISH GRAY SAND WITH SILT (SM) (GLEY 1 5GY 3/1), wet, medium- to coarse-grained sand, (5% gravel, 70% sand, 25% fines), subangular gravel up to 0.25-inches in diameter, organic odor
		5		DARK GRAY SILT (ML) GLEY1 3/10Y, wet, stiff, (0% gravel, 0% sand, 100% fines), strong hydrocarbon odor
31.9				DARK GREENISH GRAY SAND WITH SILT (SM) (GLEY 1 5GY 3/1), wet, medium- to coarse-grained sand, (5% gravel, 70% sand, 25% fines), subangular gravel up to 0.25-inches in diameter, organic odor [SAMPLE ID: SB-30-8.5] collected at 1545
		10		
11.8				[SAMPLE ID: SB-30-12.5] collected at 1555
				BLACK SILT (ML) (GLEY 1 2.5/ N), wet, very soft, (0% gravel, 0% sand, 100% fines), strong hydrocarbon odor
4.5		15		Change in color to olive brown (2.5Y 4/4), increase sand content to (0% gravel, 15% sand, 85% fines) [SAMPLE ID: SB-30-15.5] collected at 1615
				DARK GREENISH GRAY SAND WITH SILT (SM) (GLEY 1 5GY 3/1), wet, medium- to coarse-grained sand, (5% gravel, 70% sand, 25% fines), subangular gravel up to 0.25-inches in diameter, mild hydrocarbon odor
4.1		20		[SAMPLE ID: SB-30-20.0] collected at 1625
				Bottom of borehole at 20 feet BGS. Boring backfilled with neat cement grout.
		25		

PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 20 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

PLATE

**B-24**



PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Asphalt
				DARK GREENISH GRAY CLAY WITH SAND (CL) (GLEY 1 10Y 3/1), (0% gravel, 20% sand, 80% fines)
4.4				[SAMPLE ID: SB-31-2.5] collected at 1100 At 2 feet bgs, color change to black (GLEY 1 2.5/ N)
				DARK GREENISH GRAY GRAVEL WITH SAND (GP) (GLEY 1 10Y 7/1), coarse-grained sand, (70% gravel, 20% sand, 10% fines), subangular gravel up to 1-inch in diameter
				DARK GREENISH GRAY CLAY WITH SAND (CL) (GLEY 1 10Y 3/1), wet, (0% gravel, 20% sand, 80% fines)
		5		
				DARK GREENISH GRAY SILTY SAND (SM) (GLEY 1 10Y 7/1), coarse-grained sand, (0% gravel, 80% sand, 20% fines)
4.7				[SAMPLE ID: SB-31-7.5] collected at 1105
				At 9 feet bgs, hydrocarbon sheen and odor present
		10		
				Black and red roofing debris, strong hydrocarbon odor
4.3				DARK GREENISH GRAY SILTY SAND (SM) (GLEY 1 10Y 3/1), coarse-grained sand, (0% gravel, 80% sand, 20% fines) [SAMPLE ID: SB-31-12.5] collected at 1110
				At 13.5 feet bgs, hydrocarbon odor
		15		
47.5				[SAMPLE ID: SB-31-16.0] collected at 1115
				[SAMPLE ID: SB-31-20.0] collected at 1120
94.9		20		No Recovery from 20 to 24 ft BGS
				Bottom of borehole at 24 feet BGS. Boring backfilled with neat cement grout.
		25		

PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER John Alexander  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 24 feet  
 DATE STARTED 3/16/11  
 DATE COMPLETED 3/16/11

PLATE

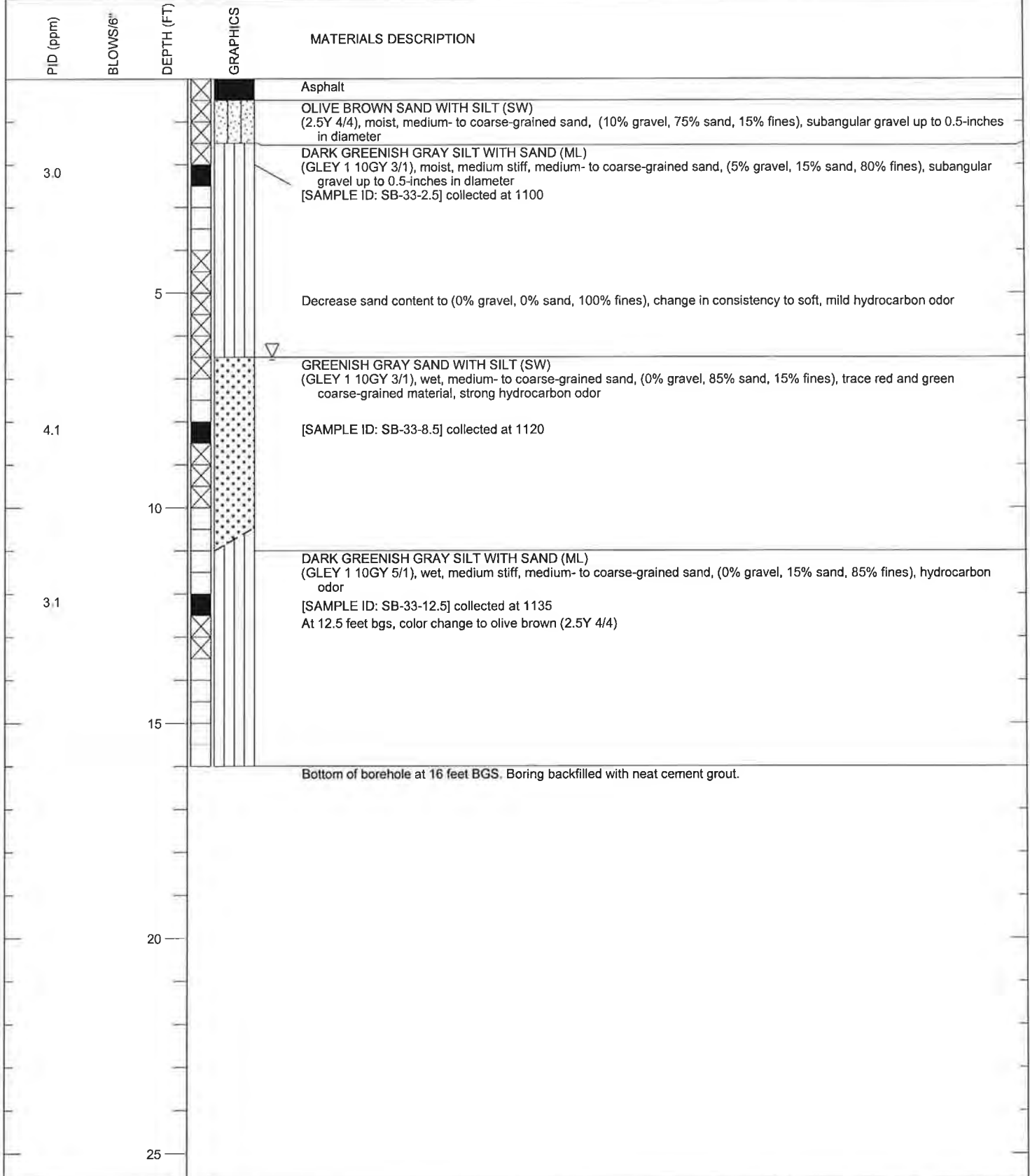
**B-25**



PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Asphalt
3.5				OLIVE BROWN SANDY SILT (ML) (2.5Y 4/4), moist, medium stiff, medium- to coarse-grained sand, (10% gravel, 20% sand, 70% fines), subangular gravel up to 0.25-inches in diameter, few brick-like inclusions  [SAMPLE ID: SB-32-2.5] collected at 1205
		5		DARK GREENISH GRAY CLAY (SM) (GLEYS 1 10GY 2,5/1), moist, medium soft, (5% gravel, 0% sand, 95% fines), few iron oxide mottles  From 6 to 7 ft bgs, increase in moisture content to very moist
20.7				[SAMPLE ID: SB-32-7.5] collected at 1210  GRAY SILTY SAND (SM) (GLEYS 1 10Y 3/1), moist, medium- to coarse-grained sand, (5% gravel, 70% sand, 25% fines), red inclusions, strong hydrocarbon odor
		10		OLIVE BROWN SANDY SILT (ML) (2.5Y 4/4), moist, medium stiff, medium- to coarse-grained sand, (10% gravel, 20% sand, 70% fines), subangular gravel up to 0.25-inches in diameter, few brick-like inclusions
5.1				[SAMPLE ID: SB-32-11.0] collected at 1215  Black tarry debris, strong hydrocarbon odor
5.2				
		15		VERY DARK GRAY SILT WITH SAND (ML) (GLEYS 1 10Y 3/1), wet, very soft, medium- to coarse-grained sand, (5% gravel, 15% sand, 80% fines), strong organic odor
10.7				
		20		Bottom of borehole at 20 feet BGS. Boring backfilled with neat cement grout.
		25		

PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	20 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/16/11
DRILL RIG	Direct Push	DATE COMPLETED	3/16/11

PLATE  
**B-26**

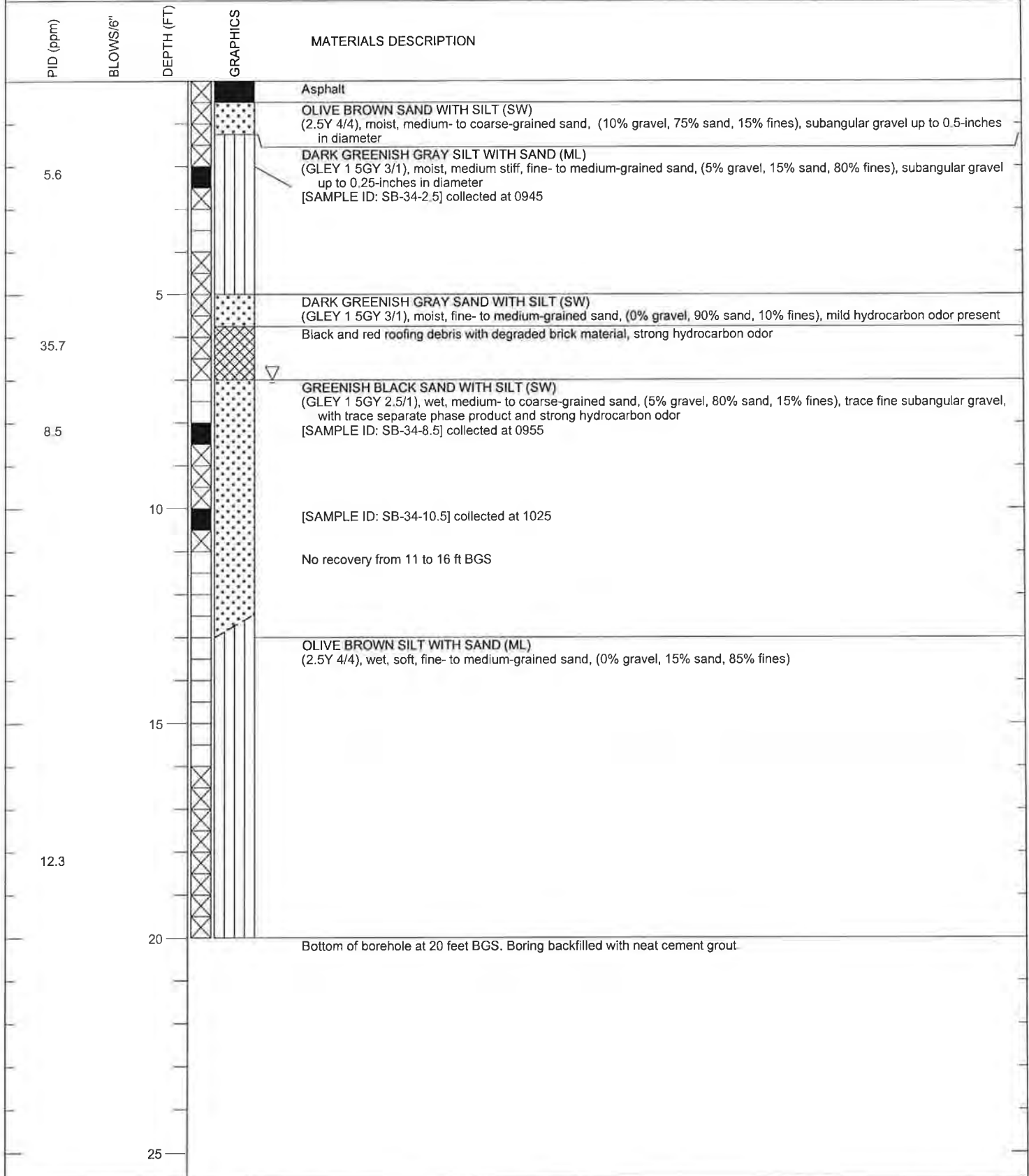


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

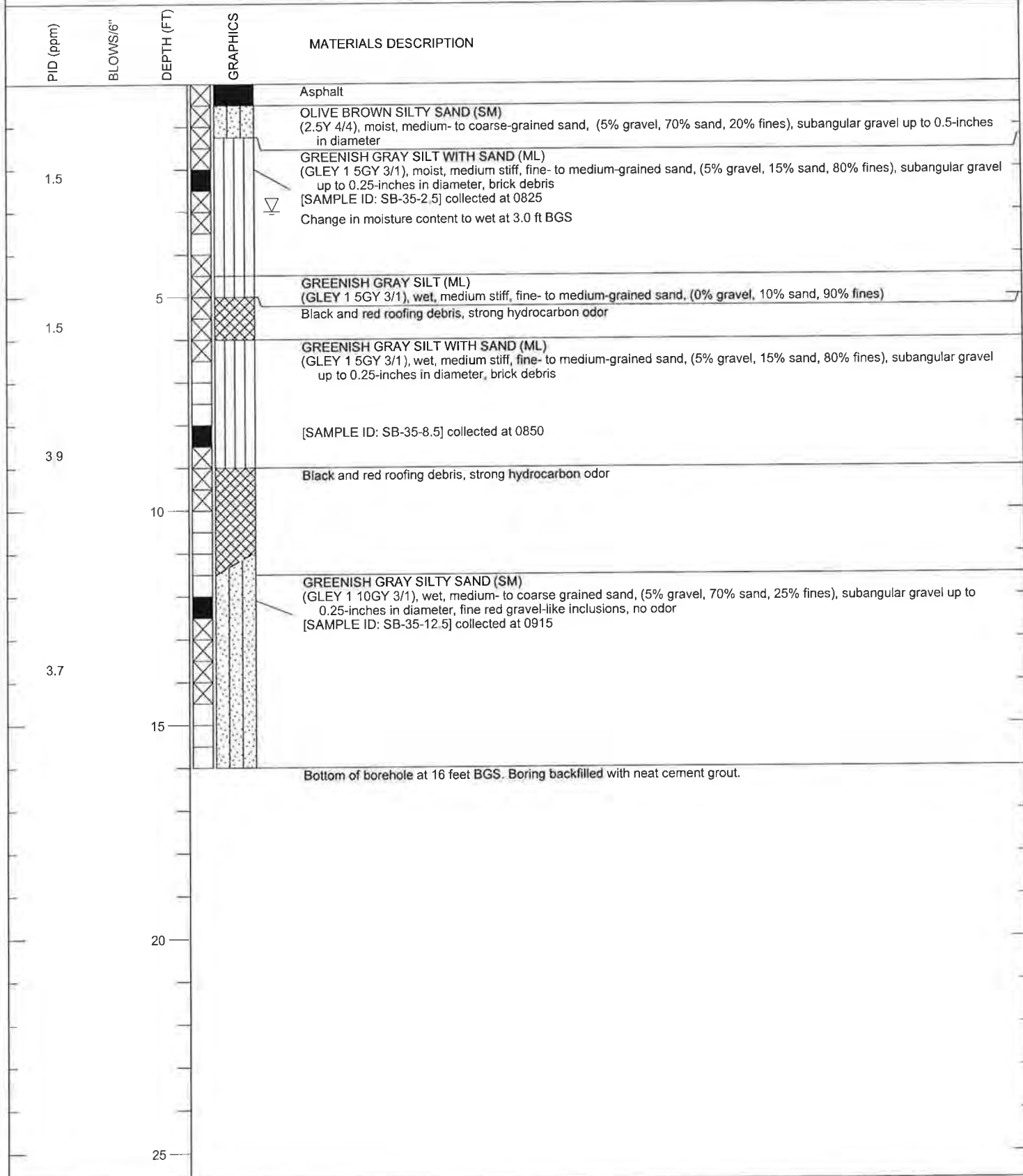
PLATE  
**B-27**





PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	20 feet
GEOLOGIST/ENGINEER	Ken Simmons	DATE STARTED	3/17/11
DRILL RIG	Direct Push	DATE COMPLETED	3/17/11

PLATE  
**B-28**

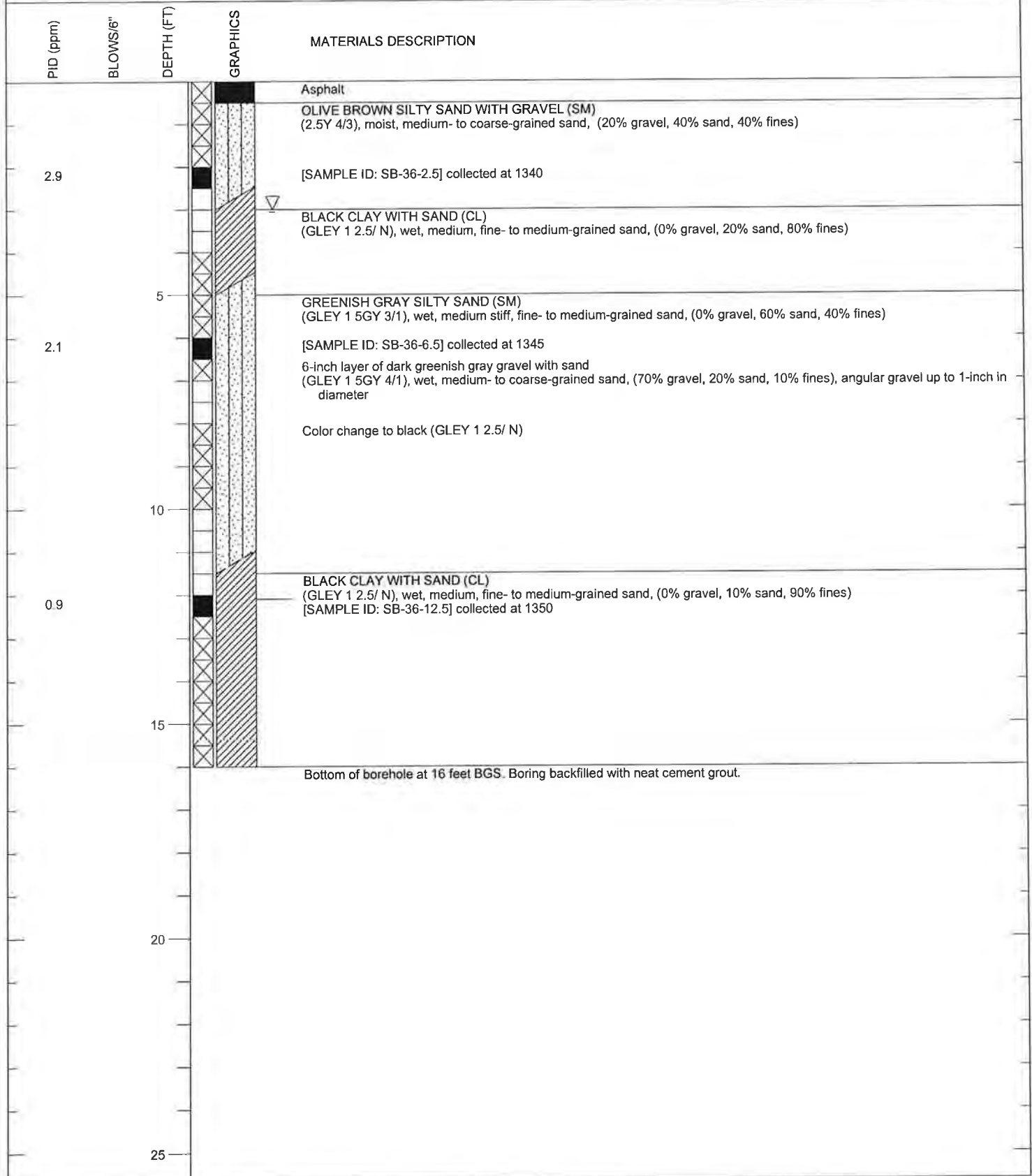


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/17/11  
 DATE COMPLETED 3/17/11

PLATE

**B-29**



PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER John Alexander  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/15/11  
 DATE COMPLETED 3/15/11

PLATE

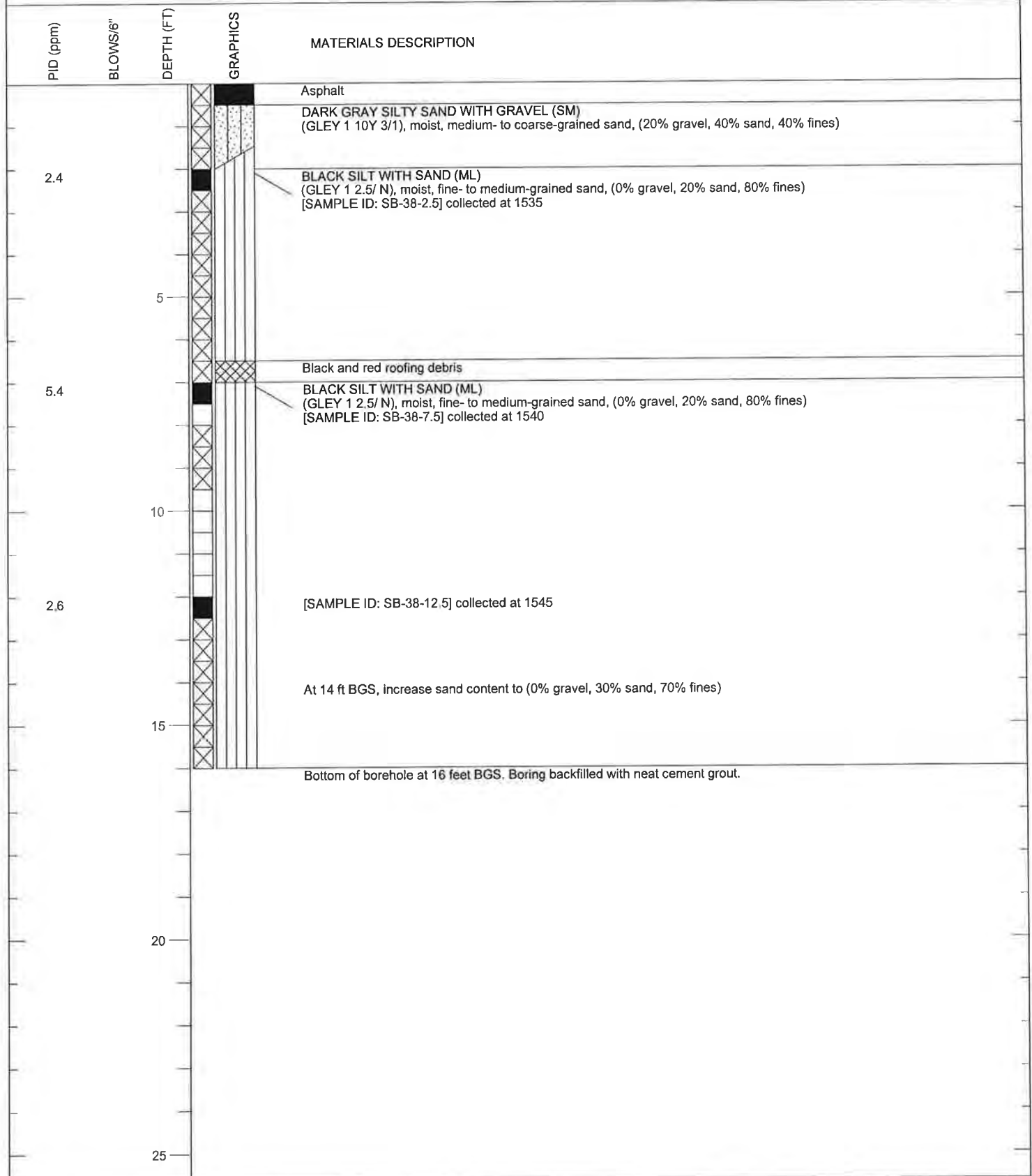
**B-30**



PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Asphalt
6.6				GREENISH GRAY SANDY CLAY (CL) (GLEYS 1 10Y 2.5/1), moist, medium- to coarse-grained sand, (0% gravel, 20% sand, 80% fines)  [SAMPLE ID: SB-37-2.5] collected at 1300
		5.0		At 6 ft BGS, decrease in sand content to (0% gravel, 10% sand, 90% fines)  [SAMPLE ID: SB-37-7.5] collected at 1305
		10		BLACK SANDY SILT (ML) (GLEYS 1 2.5/ N), wet, medium stiff, fine- to medium-grained sand, (0% gravel, 20% sand, 80% fines)  [SAMPLE ID: SB-37-12.5] collected at 1310
2.7				DARK GRAY SANDY CLAY (CL) (GLEYS 1 10Y 3/1), wet, medium- to coarse-grained sand, (0% gravel, 20% sand, 80% fines)
		15		Bottom of borehole at 16 feet BGS. Boring backfilled with neat cement grout.
		20		
		25		

PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	John Alexander	DATE STARTED	3/15/11
DRILL RIG	Direct Push	DATE COMPLETED	3/15/11

PLATE  
**B-31**

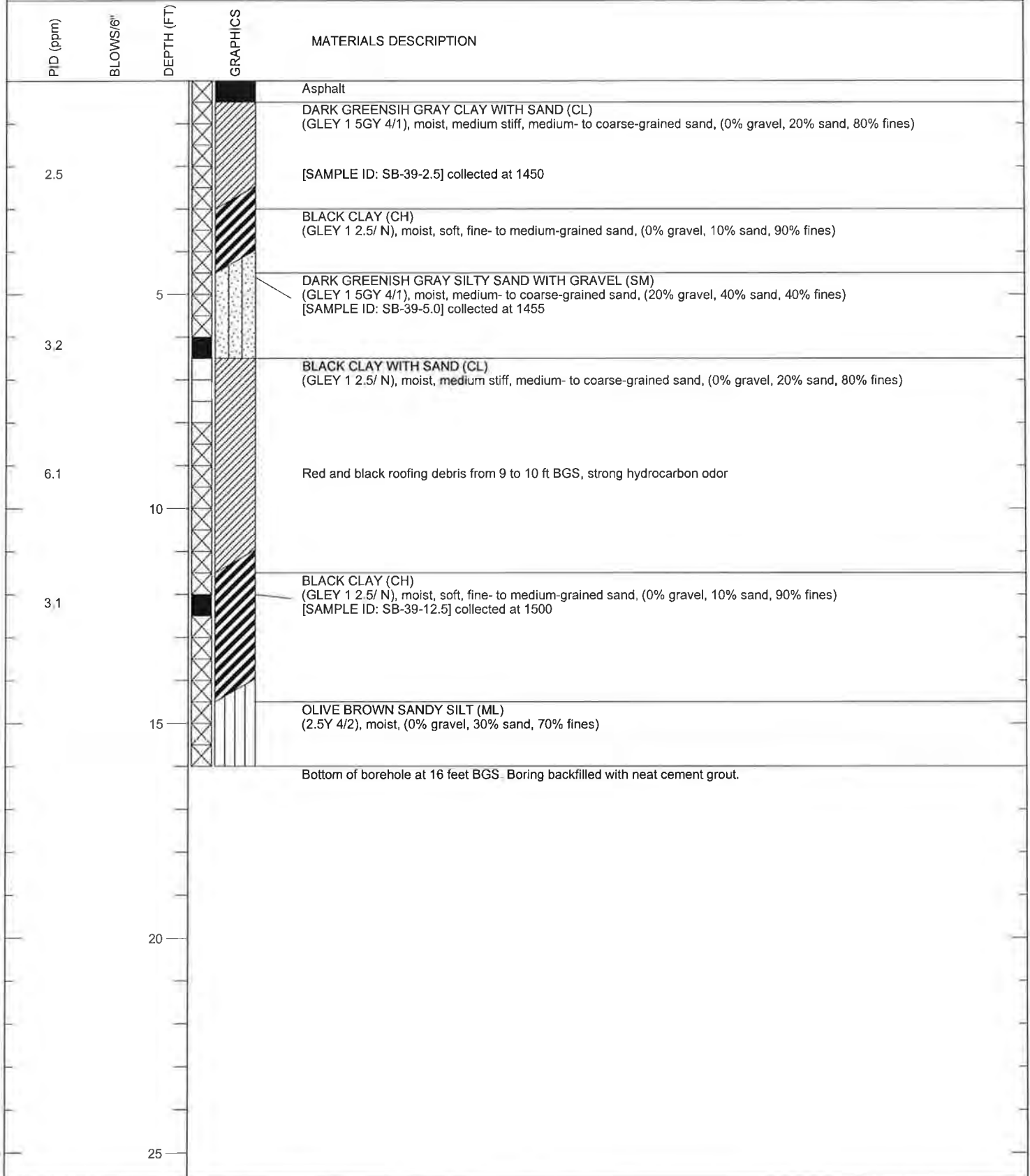


PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER John Alexander  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/15/11  
 DATE COMPLETED 3/15/11

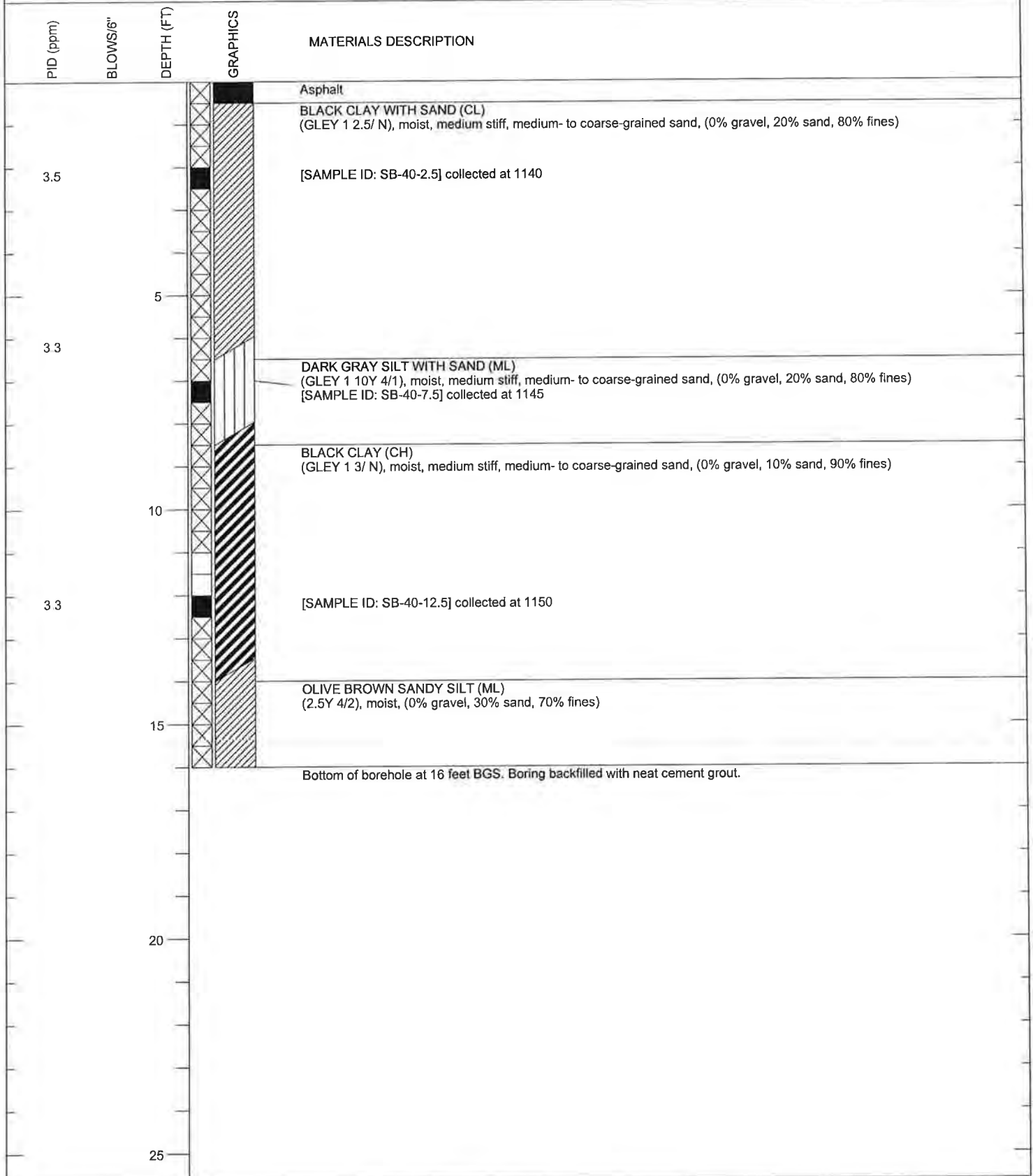
PLATE

**B-32**



PROJECT	Pre-Excavation Investigation	REVIEWED BY	PDG
LOCATION	64th Street and Christie Avenue	DIAMETER OF HOLE	2-inch
JOB NUMBER	241.082.02.002	TOTAL DEPTH OF HOLE	16 feet
GEOLOGIST/ENGINEER	John Alexander	DATE STARTED	3/15/11
DRILL RIG	Direct Push	DATE COMPLETED	3/15/11

PLATE  
**B-33**



PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER John Alexander  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/15/11  
 DATE COMPLETED 3/15/11

PLATE

**B-34**



PID (ppm)	BLOWS/6"	DEPTH (FT)	GRAPHICS	MATERIALS DESCRIPTION
				Concrete
1.5				<b>VERY DARK GRAY CLAY WITH GRAVEL (CL)</b> (5Y 3/1), moist, medium soft, medium- to coarse-grained sand, (25% gravel, 5% sand, 70% fines), subangular gravel up to 0.25-inches in diameter, few concrete and brick fragments [SAMPLE ID: SB-41-2.5] collected at 0915
				<b>DARK GREENISH GRAY SILTY SAND WITH GRAVEL (SM)</b> (GLE Y 1 5G /2 4/1), wet, medium- to coarse-grained sand, (15% gravel, 45% sand, 40% fines), subangular gravel up to 0.75-inches in diameter, few iron oxide mottles, strong hydrocarbon odor
3.1				<b>VERY DARK GREENISH GRAY SILT WITH SAND (ML)</b> (GLE Y 1 10GY 3/1), wet, medium soft, medium- to coarse-grained sand, (5% gravel, 20% sand, 75% fines), subangular gravel up to 0.25-inches in diameter, strong hydrocarbon odor [SAMPLE ID: SB-41-6.5] collected at 1000
				At 9 feet bgs, wood debris, strong hydrocarbon odor
				<b>VERY DARK GREENISH GRAY SILTY SAND WITH GRAVEL (SM)</b> GLE Y 1 3/10GY, wet, medium- to coarse-grained sand, (20% gravel, 65% sand, 15% fines), subangular gravel up to 0.25-inches in diameter [SAMPLE ID: SB-41-12.5] collected at 1020
				<b>VERY DARK GREENISH GRAY SILT WITH SAND (ML)</b> (GLE Y 1 10GY 3/1), wet, very soft, fine- to medium-grained sand, (0% gravel, 15% sand, 85% fines), white shell inclusions
				At 15 ft BGS, color change to olive brown (2.5Y 4/3), increase in sand content to (0% gravel, 20% sand, 80% fines), mild hydrocarbon odor
				Bottom of borehole at 16 feet BGS. Boring backfilled with neat cement grout.

PROJECT Pre-Excavation Investigation  
 LOCATION 64th Street and Christie Avenue  
 JOB NUMBER 241.082.02.002  
 GEOLOGIST/ENGINEER Ken Simmons  
 DRILL RIG Direct Push

REVIEWED BY PDG  
 DIAMETER OF HOLE 2-inch  
 TOTAL DEPTH OF HOLE 16 feet  
 DATE STARTED 3/15/11  
 DATE COMPLETED 3/15/11

PLATE

**B-35**



**APPENDIX C**

**WELL MONITORING DATA SHEETS**

# WELL GAUGING DATA

Project # 110315-PH1 Date 3/15/11 Client PES

Site 64<sup>th</sup> St and Christie Ave / Emeryville

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>TOC</u>	Notes
GW-10	0846	2					5.35	15.90	↓	
GW-11	1022	2				3.95	15.90			
GW-12	1141	2				4.15	15.90			
GW-13	1412	2				4.10	15.85			
GW-8	3/16 0812	2				6.10	15.88			
GW-9	3/16 1010	2				4.16	15.80			





# WELL MONITORING DATA SHEET

Project #: <u>110315-PH1</u>	Client: <u>RTS</u>
Sampler: <u>PH</u>	Date: <u>3/15/11</u>
Well I.D.: <u>GW-10</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>15.90</u>	Depth to Water (DTW): <u>5.35</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>7.46</u>	

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Positive Air Displacement <input type="checkbox"/> Electric Submersible	Watertra <input type="checkbox"/> Peristaltic <input type="checkbox"/> Extraction Pump <input type="checkbox"/> Other _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer <input type="checkbox"/> Extraction Port <input type="checkbox"/> Dedicated Tubing Other: _____
--	--	---

<u>1.7</u> (Gals.) X <u>3</u> = <u>5.0</u> Gals.
1 Case Volume      Specified Volumes      Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
0910	17.5	7.95	5163	>1000	1.7	
0912	17.9	7.53	3632	>1000	3.5	
0915	18.1	7.49	3854	>1000	5.0	

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Gallons actually evacuated: _____
Sampling Date: _____	Sampling Time: _____
Sample I.D.: _____	Depth to Water: _____
Laboratory: Kiff CalScience Other _____	
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other _____	
EB I.D. (if applicable): _____ @ _____ Time	Duplicate I.D. (if applicable): _____
Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other _____	
D.O. (if req'd): Pre-purge: _____ mg/L	Post-purge: _____ mg/L
O.R.P. (if req'd): Pre-purge: _____ mV	Post-purge: _____ mV



# WELL MONITORING DATA SHEET

Project #: <u>110315-PH1</u>	Client: <u>PES</u>
Sampler: <u>PH</u>	Date: <u>3/15/11</u>
Well I.D.: <u>GW-11</u>	Well Diameter: <u>2</u> 3 4 6 8 _____
Total Well Depth (TD): <u>15.90</u>	Depth to Water (DTW): <u>3.95</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>6.34</u>	

Purge Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Positive Air Displacement Electric Submersible	Watterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer <input checked="" type="checkbox"/> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\underline{1.9} \text{ (Gals.)} \times \underline{3} = \underline{5.7} \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1026	14.6	7.87	2186	>1000	2.0	light sheen/odor
1029	14.5	7.55	2505	>1000	4.0	
1032	14.5	7.50	2545	>1000	5.7	

Did well dewater?    Yes    No    Gallons actually evacuated: \_\_\_\_\_

Sampling Date: \_\_\_\_\_    Sampling Time: \_\_\_\_\_    Depth to Water: \_\_\_\_\_

Sample I.D.: \_\_\_\_\_    Laboratory: Kiff    CalScience    Other \_\_\_\_\_

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other: \_\_\_\_\_

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time    Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other: \_\_\_\_\_

D.O. (if req'd):    Pre-purge: \_\_\_\_\_ mg/L    Post-purge: \_\_\_\_\_ mg/L

O.R.P. (if req'd):    Pre-purge: \_\_\_\_\_ mV    Post-purge: \_\_\_\_\_ mV

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110315-PH1	Client: PES
Sampler: PH	Date: 3/15/11
Well I.D.: GW-11	Well Diameter: <input checked="" type="radio"/> 2   3   4   6   8   _____
Total Well Depth: 15.90	Depth to Water    Pre: 4.20    Post: 4.16
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="radio"/> PVE    Grade	Flow Cell Type: 751 Pro Plus

Purge Method: 2" Grundfos Pump	Peristaltic Pump	Bladder Pump
Sampling Method: Dedicated Tubing	New Tubing	Other _____
Flow Rate: 200 ml/min	Pump Depth: 11'	

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	DTW: Observations
1044	Purge	Start						
1047	15.4	7.24	3973	>1000	0.19	-68.5	600	4.11
1050	15.1	7.31	2819	>1000	0.26	-81.7	1200	4.13
1053	15.0	7.33	2444	>1000	0.27	-85.3	1800	4.15
1056	14.9	7.34	2232	>1000	0.36	-73.0	2400	4.18
1059	14.8	7.32	2166	>1000	0.30	-84.6	3000	4.16
1102	14.9	7.31	2144	816	0.31	-88.2	3600	4.18
1105	14.8	7.31	2127	591	0.27	-91.0	4200	4.18
1108	14.7	7.30	2104	295	0.25	-92.2	4800	4.18
1111	14.8	7.29	2102	208	0.23	-92.6	5400	4.16
1114	14.8	7.29	2093	162	0.20	-92.2	6000	4.16

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 6000 ml
Sampling Time: 1115	Sampling Date: 3/15/11
Sample I.D.: GW-11	Laboratory: CRT
Analyzed for:    TPH-G    BTEX    MTBE    TPH-D <input checked="" type="radio"/> Others See COC	
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.:



# WELL MONITORING DATA SHEET

Project #: <u>110315-PH1</u>	Client: <u>PES</u>
Sampler: <u>PH</u>	Date: <u>3/15/11</u>
Well I.D.: <u>GW-12</u>	Well Diameter: <u>Ø</u> 3 4 6 8 _____
Total Well Depth (TD): <u>15.90</u>	Depth to Water (DTW): <u>4.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>6.50</u>	

Purge Method: Bailer Disposable Bailer Positive <u>AD</u> Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
--	--	---

Start purge @ 1203

<u>1.9</u> (Gals.) X	<u>3</u>	= <u>5.6</u> Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius <sup>2</sup> * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1206	16.1	7.37	3159	>1000	2	
1208	16.0	7.30	2754	>1000	4	
1211	15.8	7.25	2683	>1000	6	
1214	16.0	7.25	2660	>1000	7.5	
1217	15.9	7.22	2967	>1000	9.5	

Did well dewater? Yes No / Gallons actually evacuated: \_\_\_\_\_

Sampling Date: \_\_\_\_\_ Sampling Time: \_\_\_\_\_ Depth to Water: \_\_\_\_\_

Sample I.D.: \_\_\_\_\_ Laboratory: Kiff CalScience Other \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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# WELL MONITORING DATA SHEET

Project #: <u>110815-PA1</u>	Client: <u>RES</u>
Sampler: <u>PH</u>	Date: <u>3/15/11</u>
Well I.D.: <u>GW-12</u>	Well Diameter: <u>Ø</u> 3 4 6 8 _____
Total Well Depth (TD): <u>15.90</u>	Depth to Water (DTW): <u>4.15</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: <u>6.50</u>	

Purge Method: Bailer Disposable Bailer Positive <u>Air</u> Displacement Electric Submersible	Waterra Peristaltic Extraction Pump Other _____	Sampling Method: Bailer Disposable Bailer Extraction Port Dedicated Tubing Other: _____
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$\underline{1.9} \text{ (Gals.)} \times \underline{3} = \underline{5.6} \text{ Gals.}$ 1 Case Volume      Specified Volumes      Calculated Volume	<table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius<sup>2</sup> * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius <sup>2</sup> * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius <sup>2</sup> * 0.163														

Time	Temp (°F or °C)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	Gals. Removed	Observations
1221	16.0	7.21	3476	>1000	11.5	
1224	16.1	7.22	3561	>1000	13.5	no change in turbidity

Did well dewater?    Yes    No                      Gallons actually evacuated: \_\_\_\_\_

Sampling Date: 3/15/11    Sampling Time: \_\_\_\_\_    Depth to Water: \_\_\_\_\_

Sample I.D.: GW-12                      Laboratory:    Kiff    CalScience    Other \_\_\_\_\_

Analyzed for:    TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other: \_\_\_\_\_

EB I.D. (if applicable): \_\_\_\_\_ @ \_\_\_\_\_ Time    Duplicate I.D. (if applicable): \_\_\_\_\_

Analyzed for:    TPH-G    BTEX    MTBE    TPH-D    Oxygenates (5)    Other: \_\_\_\_\_

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
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O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV
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## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>110315-PH1</u>	Client: <u>PES</u>
Sampler: <u>PH</u>	Date: <u>3/15/11</u>
Well I.D.: <u>GW-12</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>15.90</u>	Depth to Water Pre: <u>4.05</u> Post: _____
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVO</u> Grade _____	Flow Cell Type: <u>751 Pro Plus</u>

Purge Method: 2" Grundfos Pump Peristaltic Pump Bladder Pump  
 Sampling Method: Dedicated Tubing New Tubing Other \_\_\_\_\_  
 Flow Rate: 200 ml/min Pump Depth: 11'

Time	Temp. ( <u>C</u> or °F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u> )	<u>DTW:</u> Observations
1240	<u>Ruge start</u>							
1243	<u>15.7</u>	<u>6.90</u>	<u>2254</u>	<u>&gt;1000</u>	<u>0.38</u>	<u>-49.4</u>	<u>600</u>	<u>4.06</u>
1246	<u>15.8</u>	<u>6.91</u>	<u>2269</u>	<u>&gt;1000</u>	<u>0.26</u>	<u>-54.3</u>	<u>1200</u>	<u>4.06</u>
1249	<u>15.7</u>	<u>6.91</u>	<u>2202</u>	<u>&gt;1000</u>	<u>0.27</u>	<u>-57.4</u>	<u>1800</u>	<u>4.06</u>
1252	<u>15.7</u>	<u>6.89</u>	<u>2220</u>	<u>&gt;1000</u>	<u>0.28</u>	<u>-59.0</u>	<u>2400</u>	<u>4.06</u>
1255	<u>15.7</u>	<u>6.90</u>	<u>2227</u>	<u>&gt;1000</u>	<u>0.21</u>	<u>-61.6</u>	<u>3000</u>	<u>4.06</u>
1258	<u>15.7</u>	<u>6.89</u>	<u>2247</u>	<u>912</u>	<u>0.17</u>	<u>-61.9</u>	<u>3600</u>	<u>4.06</u>
1301	<u>15.7</u>	<u>6.90</u>	<u>2269</u>	<u>539</u>	<u>0.15</u>	<u>-64.7</u>	<u>4200</u>	<u>4.06</u>
1304	<u>15.6</u>	<u>6.90</u>	<u>2266</u>	<u>403</u>	<u>0.12</u>	<u>-66.5</u>	<u>4800</u>	<u>4.06</u>
1307	<u>15.6</u>	<u>6.91</u>	<u>2274</u>	<u>284</u>	<u>0.13</u>	<u>-67.3</u>	<u>5400</u>	<u>4.06</u>
1310	<u>15.7</u>	<u>6.92</u>	<u>2291</u>	<u>222</u>	<u>0.12</u>	<u>-69.2</u>	<u>6000</u>	<u>4.06</u>

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>6000</u>
Sampling Time: <u>1312</u>	Sampling Date: <u>3/15/11</u>
Sample I.D.: <u>GW-12</u>	Laboratory: <u>CST</u>
Analyzed for: TPH-G BTEX MTBE TPH-D <u>Other: See COC</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____



## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>110315-PH1</u>	Client: <u>PES</u>
Sampler: <u>PH</u>	Date: <u>3/13/11</u>
Well I.D.: <u>GW-13</u>	Well Diameter: <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth: <u>15.85</u>	Depth to Water    Pre: <u>4.10</u> Post: <u>4.10</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <input checked="" type="checkbox"/> PVC <input type="checkbox"/> Grade	Flow Cell Type: <u>YSI Pro Plus</u>

Purge Method: 2" Grundfos Pump    Peristaltic Pump    Bladder Pump  
 Sampling Method: Dedicated Tubing    New Tubing    Other \_\_\_\_\_

Flow Rate: 200 ml/min    Pump Depth: 11'

Time	Temp. ( <input checked="" type="radio"/> or °F)	pH	Cond. (mS or <input checked="" type="radio"/> µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <input checked="" type="radio"/> ml)	D/W: Observations
1438	<u>Purge Start</u>							
1441	15.6	7.11	1414	>1000	0.67	-47.4	600	4.10
1444	15.4	7.10	1421	>1000	0.39	-54.4	1200	4.10
1447	15.3	7.09	1415	>1000	0.27	-60.2	1800	4.10
1450	15.2	7.09	1424	>1000	0.24	-63.1	2400	4.10
1453	15.1	7.08	1402	>1000	0.23	-67.0	3000	4.10
1456	15.0	7.10	1311	>1000	0.23	-70.9	3600	4.10
1459	14.9	7.11	1210	>1000	0.26	-75.2	4200	4.10
1502	14.8	7.12	1177	>1000	0.26	-77.2	4800	4.10
1505	14.7	7.12	1164	862	0.25	-80.3	5400	4.10
1508	14.6	7.11	1157	612	0.22	-81.4	6000	4.10

Did well dewater? Yes  No

Amount actually evacuated: 6000 ml

Sampling Time: 1510    Sampling Date: 3/13/11

Sample I.D.: GW-13    Laboratory: C&T

Analyzed for:    TPH-G    BTEX    MTBE    TPH-D    Other: See COC

Equipment Blank I.D.:    @    Time    Duplicate I.D.:





## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>110315-AM</u>	Client: <u>RES</u>
Sampler: <u>PH</u>	Date: <u>3/16/11</u>
Well I.D.: <u>GW-8</u>	Well Diameter: <u>2</u> 3 4 6 8
Total Well Depth: <u>15.88</u>	Depth to Water Pre: <u>6.43</u> Post: <u>6.24</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>eye</u> Grade	Flow Cell Type: <u>751 Pro Plus</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 ml/min      Pump Depth: 11'

Time	Temp. ( <u>C</u> or °F)	pH	Cond. (mS or <u>µS</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u> )	<u>OTW</u> Observations
<u>0907</u>	<u>Purge start</u>							
<u>0910</u>	<u>16.3</u>	<u>7.30</u>	<u>11394</u>	<u>327</u>	<u>0.91</u>	<u>-12.6</u>	<u>600</u>	<u>6.43</u>
<u>0913</u>	<u>16.4</u>	<u>7.37</u>	<u>11427</u>	<u>236</u>	<u>0.88</u>	<u>-24.7</u>	<u>1200</u>	<u>6.41</u>
<u>0916</u>	<u>16.3</u>	<u>7.33</u>	<u>11461</u>	<u>176</u>	<u>0.84</u>	<u>-30.6</u>	<u>1800</u>	<u>6.39</u>
<u>0919</u>	<u>16.4</u>	<u>7.33</u>	<u>11448</u>	<u>142</u>	<u>0.80</u>	<u>-31.4</u>	<u>2400</u>	<u>6.36</u>
<u>0922</u>	<u>16.5</u>	<u>7.35</u>	<u>11443</u>	<u>115</u>	<u>0.78</u>	<u>-33.7</u>	<u>3000</u>	<u>6.33</u>
<u>0925</u>	<u>16.5</u>	<u>7.34</u>	<u>11454</u>	<u>104</u>	<u>0.77</u>	<u>-35.3</u>	<u>3600</u>	<u>6.30</u>
<u>0928</u>	<u>16.5</u>	<u>7.36</u>	<u>11592</u>	<u>79</u>	<u>0.75</u>	<u>-37.1</u>	<u>4200</u>	<u>6.28</u>
<u>0931</u>	<u>16.5</u>	<u>7.41</u>	<u>11486</u>	<u>69</u>	<u>0.73</u>	<u>-38.4</u>	<u>4800</u>	<u>6.26</u>
<u>0934</u>	<u>16.5</u>	<u>7.45</u>	<u>11497</u>	<u>60</u>	<u>0.72</u>	<u>-39.1</u>	<u>5400</u>	<u>6.24</u>
<u>0937</u>	<u>16.5</u>	<u>7.42</u>	<u>11484</u>	<u>57</u>	<u>0.71</u>	<u>-40.5</u>	<u>6000</u>	<u>6.24</u>

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: <u>6000 ml</u>
Sampling Time: <u>0938</u>	Sampling Date: <u>3/16/11</u>
Sample I.D.: <u>GW-8</u>	Laboratory: <u>C&amp;T</u>
Analyzed for:      TPH-G    BTEX    MTBE    TPH-D      Other: <u>See COC</u>	
Equipment Blank I.D.:      @      Time	Duplicate I.D.:



## LOW FLOW WELL MONITORING DATA SHEET

Project #: 110315-PH1	Client: PES
Sampler: PH	Start Date: 3/16/11
Well I.D.: 6W-9	Well Diameter: 2 3 4 6 8 _____
Total Well Depth: 15.80	Depth to Water Pre: 4.16 Post: 4.16
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	Flow Cell Type: VSI RO PLUS

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Flow Rate: 200 ml/min      Pump Depth: 11'

Time	Temp. (°C or °F)	pH	Cond. (mS or $\mu$ S)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	D.W. Observations
1044	Purge Start		<del>4972</del>	<del>&gt;1000</del>	<del>0.45</del>	<del>-84.7</del>		
1047	14.9	7.01	4972	>1000	0.45	-84.7	600	4.16
1050	14.6	6.93	4842	>1000	0.40	-92.0	1200	4.16
1053	14.4	6.90	5086	>1000	0.29	-101.2	1800	4.16
1056	14.2	6.88	5011	716	0.26	-104.7	2400	4.16
1059	14.1	6.90	4655	447	0.25	-106.8	3000	4.16
1102	14.0	6.95	4075	151	0.25	-107.3	3600	4.16
1105	13.9	7.00	3578	63	0.25	-107.7	4200	4.16
1108	13.9	7.03	3501	45	0.23	-107.9	4800	4.16
1111	13.9	7.04	3464	35	0.22	-108.4	5400	4.16
1114	13.9	7.06	3446	24	0.22	-108.8	6000	4.16

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 6000
Sampling Time: 1115	Sampling Date: 3/16/11
Sample I.D.: GW-9	Laboratory: CRT
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @	Duplicate I.D.:





## PURGE DRUM INVENTORY LOG

CLIENT PES

SITE ADDRESS 64th and Christie Ave, Emeryville

### STATUS OF DRUM(S) UPON ARRIVAL

DATE	3/15/11						
Number of drum(s) empty:							
Number of drum(s) 1/4 full:							
Number of drum(s) 1/2 full:							
Number of drum(s) 3/4 full:							
Number of drum(s) full:	8 <sup>from</sup> <sub>BTS</sub>						
Total drum(s) on site:	8						
Are the drum(s) properly labeled?							
Drum ID & Contents:	Soil						

### STATUS OF DRUM(S) UPON DEPARTURE

DATE	3/16/11						
Number of drum(s) empty:							
Number of drum(s) 1/4 full:	1 <sub>BTS</sub>						
Number of drum(s) 1/2 full:							
Number of drum(s) 3/4 full:							
Number of drum(s) full:	1 <sub>BTS</sub> 3 <sub>from</sub> <sub>BTS</sub>						
Total drum(s) on site:							
Are the drum(s) properly labeled?	Yes						
Drum ID & Contents:	Pregnant						

### LOCATION OF DRUM(S)

Describe location of drum(s): inside Bay door at 6390 Christie Ave

### FINAL STATUS

Number of new drum(s) left on site this event:	2						
Date of inspection:	3/16/11						
Logged by BTS Field Technician:	PH						
Office reviewed by:	<i>[Signature]</i>						

**APPENDIX D**

**WELL SURVEY RESULTS**

PLS Surveys Inc.

6340-6390 Christie Ave, Emeryville CA

05/09/2011

GLOBAL_ID	FIELD_PT_NAME	FIELD_PT_CLASS	XY_SURVEY_DATE	LATITUDE	LONGITUDE	XY_METHOD	XY_DATUM	XY_ACC_VAL	XY_SURVEY_ORG	GPS_EQUIP_TYPE	XY_SURVEY_DESC
	GW-12		03/30/2011	37.8429321	-122.2950672	RTK	NAD83	1	PLS Surveys Inc.	L530	#11
	GW-11		03/30/2011	37.8430750	-122.2947699	RTK	NAD83	1	PLS Surveys Inc.	L530	#12
	GW-10		03/30/2011	37.8432867	-122.2948646	RTK	NAD83	1	PLS Surveys Inc.	L530	#13
	GW-9		03/30/2011	37.8435988	-122.2951027	RTK	NAD83	1	PLS Surveys Inc.	L530	#14
	GW-8		03/30/2011	37.8435013	-122.2955466	RTK	NAD83	1	PLS Surveys Inc.	L530	#15
	GW-13		03/30/2011	37.8430730	-122.2954397	RTK	NAD83	1	PLS Surveys Inc.	L530	#16



PLS Surveys Inc.

6340-6390 Christie Ave, Emeryville CA

05/09/2011

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC	EFF_DATE
	GW-12	03/30/2011	12.30	DIG	88	3	PLS Surveys Inc.		#11	
	GW-11	03/30/2011	13.30	DIG	88	3	PLS Surveys Inc.		#12	
	GW-10	03/30/2011	13.53	DIG	88	3	PLS Surveys Inc.		#13	
	GW-9	03/30/2011	11.68	DIG	88	3	PLS Surveys Inc.		#14	
	GW-8	03/30/2011	11.66	DIG	88	3	PLS Surveys Inc.		#15	
	GW-13	03/30/2011	11.70	DIG	88	3	PLS Surveys Inc.		#16	



**APPENDIX E**

**LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORMS  
(ON CD-ROM)**





Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1878



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

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

Laboratory Job Number 226605  
ANALYTICAL REPORT

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

Project : 241.082.02.001  
Location : 64th & Christie/Emeryville, CA  
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
SB-9-2.5	226605-001
SB-9-6.5	226605-002
SB-9-12.5	226605-003
SB-12-2.5	226605-004
SB-12-7.5	226605-005
SB-12-12.5	226605-006
SB-7-2.5	226605-007
SB-7-5.0	226605-008
SB-7-12.0	226605-009
SB-8-2.5	226605-010
SB-8-6.5	226605-011
SB-8-12.5	226605-012

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

Signature: \_\_\_\_\_  
Project Manager

Date: 03/22/2011

NELAP # 01107CA

## CASE NARRATIVE

Laboratory number: 226605  
Client: PES Environmental, Inc.  
Project: 241.082.02.001  
Location: 64th & Christie/Emeryville, CA  
Request Date: 03/14/11  
Samples Received: 03/14/11

This data package contains sample and QC results for twelve soil samples, requested for the above referenced project on 03/14/11. The samples were received cold and intact.

### TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

### TPH-Extractables by GC (EPA 8015B):

Matrix spikes QC584297, QC584298 (batch 172897) were not reported because the parent sample required a dilution that would have diluted out the spikes. Many samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

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

Matrix spikes were not performed for this analysis in batch 172812 due to insufficient sample amount. No other analytical problems were encountered.

### Semivolatile Organics by GC/MS (EPA 8270C):

No analytical problems were encountered.

### Metals (EPA 6010B and EPA 7471A):

High recoveries were observed for chromium, copper, and vanadium in the MS/MSD for batch 172807; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPDs were within limits. Low recovery was observed for mercury in the MS of SB-9-2.5 (lab # 226605-001); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.



22005

# CHAIN OF CUSTODY RECORD

LABORATORY: C+T

SAMPLERS: K. Simmons

JOB NUMBER: 241-082-02-001

NAME / LOCATION: 64th + Christie / Emeryville, CA

PROJECT MANAGER: LO Mast

RECORDER: K. Simmons

ANALYSIS REQUESTED									
EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B-VOCs	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C - SVOCs	MNA Parameters (see notes)	Title 22 Metals (6010B)	
		X	X	X		X	X		
		X	X	X		X	X		
		X	X	X		X	X		
		X	X	X		X	X		
		X	X	X		X	X		
		X	X	X		X	X		
		X	X	X		X	X		
		X	X	X		X	X		
		X	X	X		X	X		
		X	X	X		X	X		

	DATE				SAMPLE NUMBER / DESIGNATION
	YR	MO	DY	TIME	
1	11	03	14	0925	SB-9-25
2				0950	SB-9-75
3				1010	SB-9-125
4				1040	SB-12-25
5				1030	SB-12-75
6				1150	SB-12-125
7				1435	SB-7-25
8				1450	SB-7-75
9				1515	SB-7-125
10				1530	SB-8-25
11				1545	SB-8-75
12				1600	SB-8-125

MATRIX	# of Containers & Preservatives										DEPTH IN FEET	
	Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol		Isopro
			X		1					1	2	

**NOTES**

Turn Around Time: Standard TAT

Please retain samples after analysis for possible SILC/TCLP.

Cold & on ice

Page 1 of 1

CHAIN OF CUSTODY RECORD			
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
<i>[Signature]</i>	<i>[Signature]</i>	3/4/11	4:45
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)
METHOD OF SHIPMENT:			

3 of 66

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 22605 Date Received 3/14/11 Number of coolers 1
Client PES Project with a Christie Emeryville, CA
Date Opened 3/14/11 By (print) R. Paris (sign) [Signature]
Date Logged in 3/15/11 By (print) [Signature] (sign) [Signature]

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

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

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

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

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

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

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

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

7. Temperature documentation:

Type of ice used: X Wet Blue/Gel None Temp(C) 6.8

Samples Received on ice & cold without a temperature blank

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

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

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

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

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

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

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

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

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

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

COMMENTS
recd 5 encres total for E8260 and ETAT

**Desiree Tetrault**

---

**From:** "Chris Baldassari" <cbaldassari@pesenv.com>  
**To:** "Desiree Tetrault" <desiree.tetrault@ctberk.com>; "Ken Simmons" <KSimmons@pesenv.com>  
**Sent:** Monday, March 21, 2011 12:56 PM  
**Subject:** RE: 241.082 adjustments

Hi Desiree,

We don't need gravity separation for the sample, but would like silica-gel cleanup performed; please no reporting/analysis for without silica gel.

The digestion fee on analyses started already sounds fair to me; we just want to be clear on which ones shouldn't have metals reported (indicated in the COCs sent by Kenny)

Thanks,  
 Chris

---

**From:** Desiree Tetrault [mailto:desiree.tetrault@ctberk.com]  
**Sent:** Monday, March 21, 2011 12:52 PM  
**To:** Ken Simmons  
**Cc:** Chris Baldassari  
**Subject:** Re: 241.082 adjustments

Hey Ken and Chris- thanks for the update. There shouldn't be any problems changing the IDs and the requests for analyses, although for logins 226688 and 226712 we have already prepped the samples for the metals. I can remove the analyses that you listed, but will have to charge a \$10 digestion fee for the ones already started.

Could you confirm that you do or do not need gravity separation for the last water sample (226732-001) submitted on Friday? Also, do you need the results to be reported with and without silica gel cleanup?

Thank you and please feel free to call with any questions.

Desirée Tétrault  
 Project Manager  
 Curtis and Tompkins, Ltd  
 2323 Fifth Street  
 Berkeley CA 94710  
 510.204.2221  
[www.curtisandtompkins.com](http://www.curtisandtompkins.com)

----- Original Message -----

**From:** Ken Simmons  
**To:** [desiree.tetrault@ctberk.com](mailto:desiree.tetrault@ctberk.com)  
**Cc:** [Chris Baldassari](mailto:Chris Baldassari)  
**Sent:** Monday, March 21, 2011 10:58 AM  
**Subject:** 241.082 adjustments

Morning Desiree –

After reviewing the log-in sheets and COCs, there are a few adjustments to sample names and analysis that we would like to see.



Gasoline by GC/FID (5035 Prep)		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172825
Units:	mg/Kg	Sampled: 03/14/11
Basis:	as received	Received: 03/14/11
Diln Fac:	1.000	

Field ID: SB-9-2.5                      Lab ID: 226605-001  
 Type: SAMPLE                              Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	67-140

Field ID: SB-9-6.5                      Lab ID: 226605-002  
 Type: SAMPLE                              Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	67-140

Field ID: SB-9-12.5                      Lab ID: 226605-003  
 Type: SAMPLE                              Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	1.7 Y	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	67-140

Field ID: SB-12-2.5                      Lab ID: 226605-004  
 Type: SAMPLE                              Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	67-140

Field ID: SB-12-7.5                      Lab ID: 226605-005  
 Type: SAMPLE                              Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	67-140

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit



Gasoline by GC/FID (5035 Prep)		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172825
Units:	mg/Kg	Sampled: 03/14/11
Basis:	as received	Received: 03/14/11
Diln Fac:	1.000	

Field ID: SB-12-12.5      Lab ID: 226605-006  
 Type: SAMPLE      Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	67-140

Field ID: SB-7-2.5      Lab ID: 226605-007  
 Type: SAMPLE      Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	67-140

Field ID: SB-7-5.0      Lab ID: 226605-008  
 Type: SAMPLE      Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.21
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	67-140

Field ID: SB-7-12.0      Lab ID: 226605-009  
 Type: SAMPLE      Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	1.9 Y	0.23
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	133	67-140

Field ID: SB-8-2.5      Lab ID: 226605-010  
 Type: SAMPLE      Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	67-140

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit



## Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584006	Batch#: 172825
Matrix:	Soil	Analyzed: 03/16/11
Units:	mg/Kg	

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.8843	88	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac: 1.000
MSS Lab ID:	226652-001	Batch#: 172825
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	Analyzed: 03/16/11

Type: MS Lab ID: QC584070

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1430	9.615	5.742	58	41-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Type: MSD Lab ID: QC584071

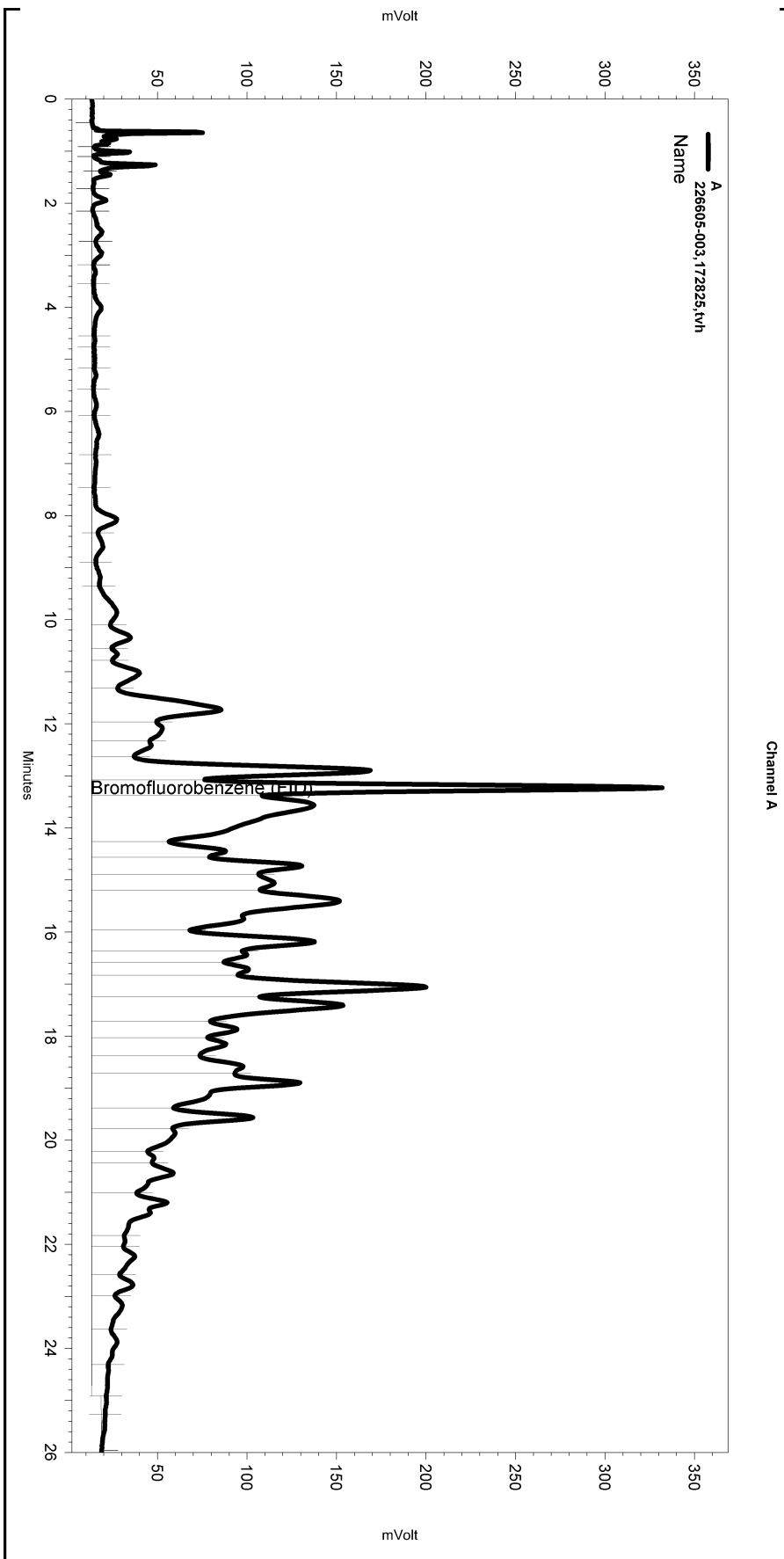
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.615	5.433	55	41-120	6	47

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence075.seq  
 Sample Name: 226605-003,172825,tvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\075-026  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/17/2011 3:16:59 AM  
 Analysis Date: 3/17/2011 12:23:38 PM  
 Sample Amount: 5.86 Multiplier: 5.86  
 Vial & pH or Core ID: a



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Yes	Threshold	0	0	50

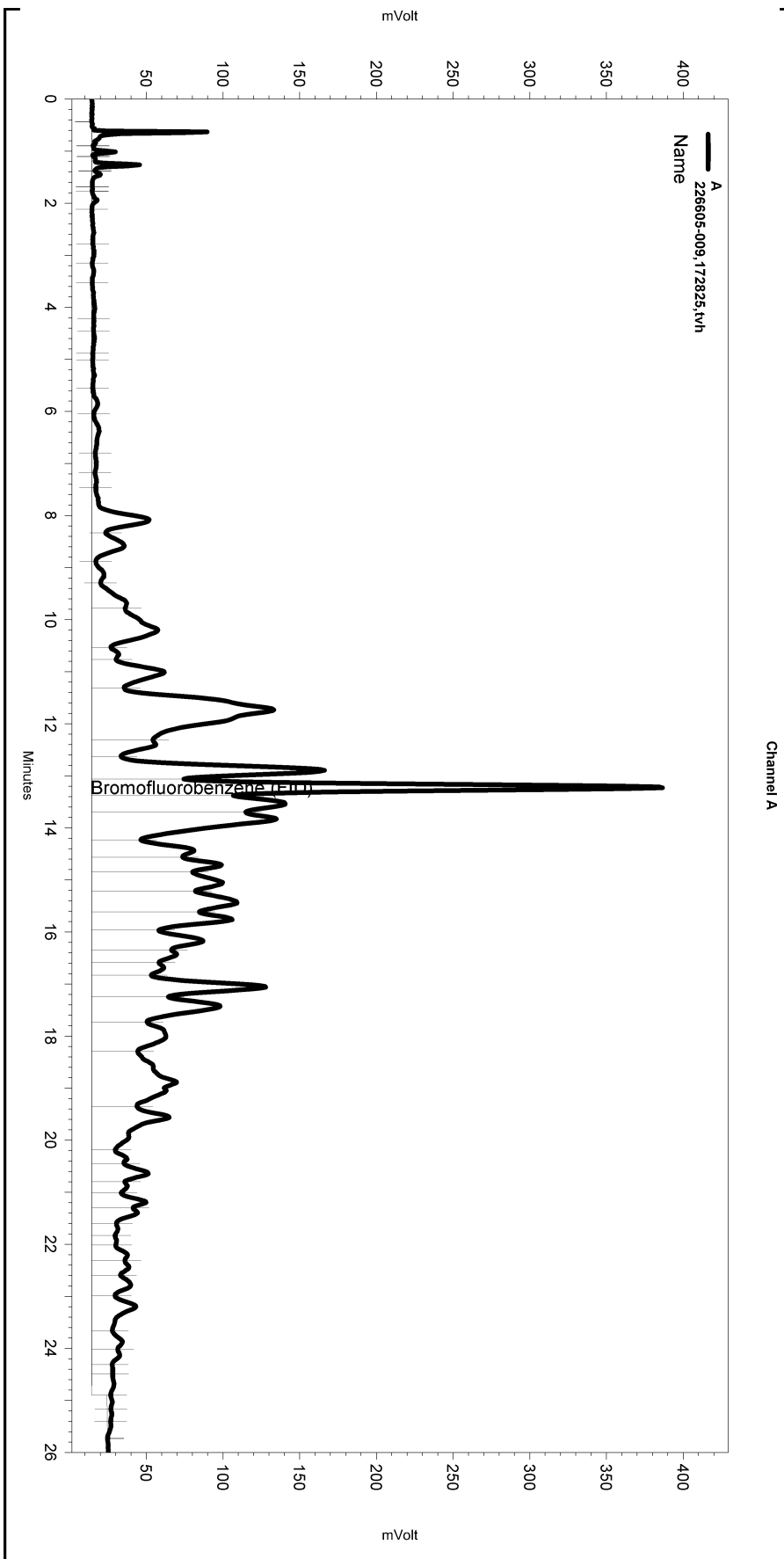
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 Sample Name: 226605-009,172825,tvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\075-032  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

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 Analysis Date: 3/17/2011 12:27:21 PM  
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 Vial & pH or Core ID: a



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 Integration Events  
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Yes	Threshold	0	0	50

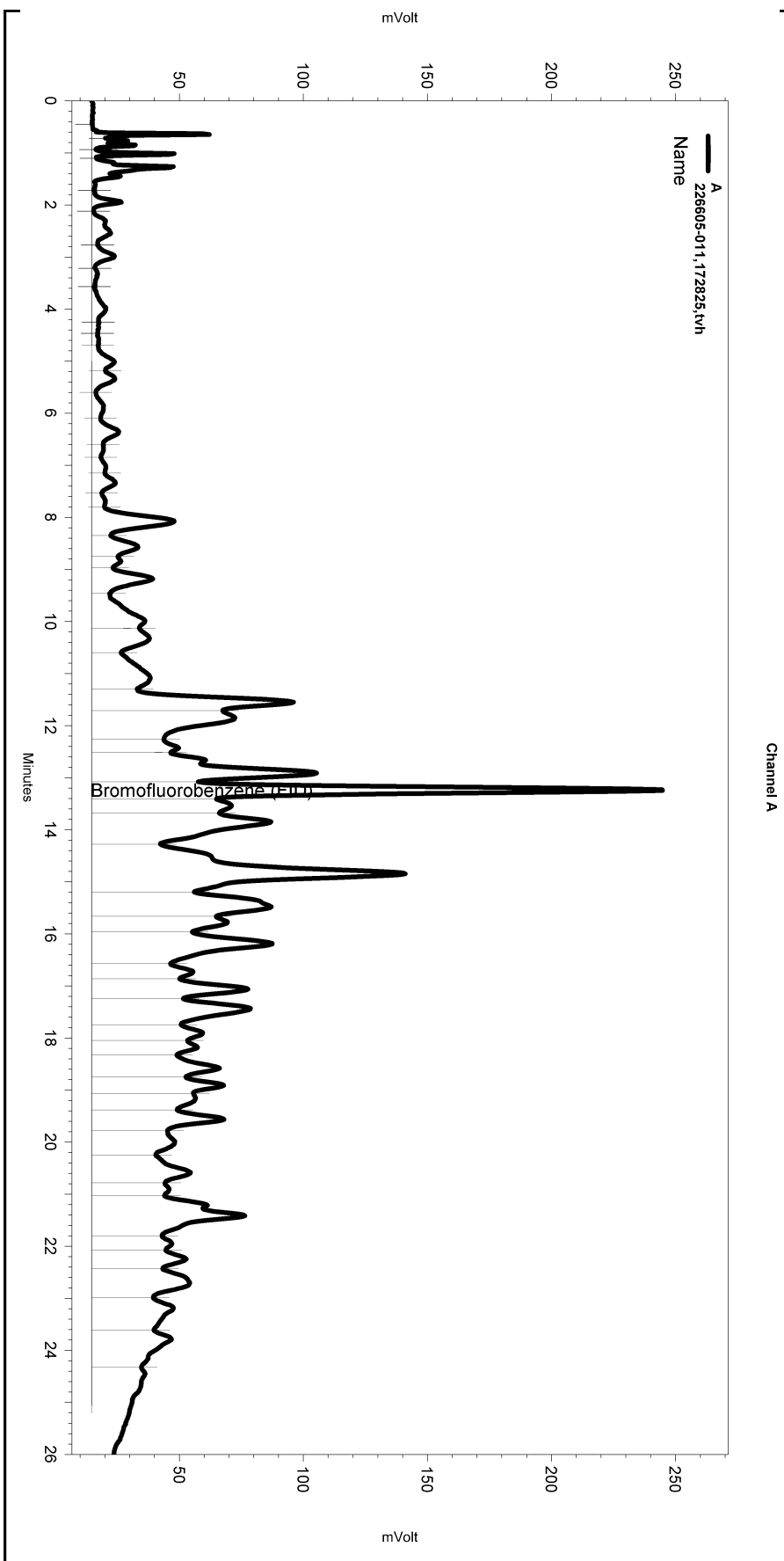
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Yes	Lowest Point Horizontal Baseli	0.493	24.956	0

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 Sample Name: 226605-011,172825,tvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\075-037  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/17/2011 9:59:15 AM  
 Analysis Date: 3/17/2011 12:28:38 PM  
 Sample Amount: 4.71 Multiplier: 4.71  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

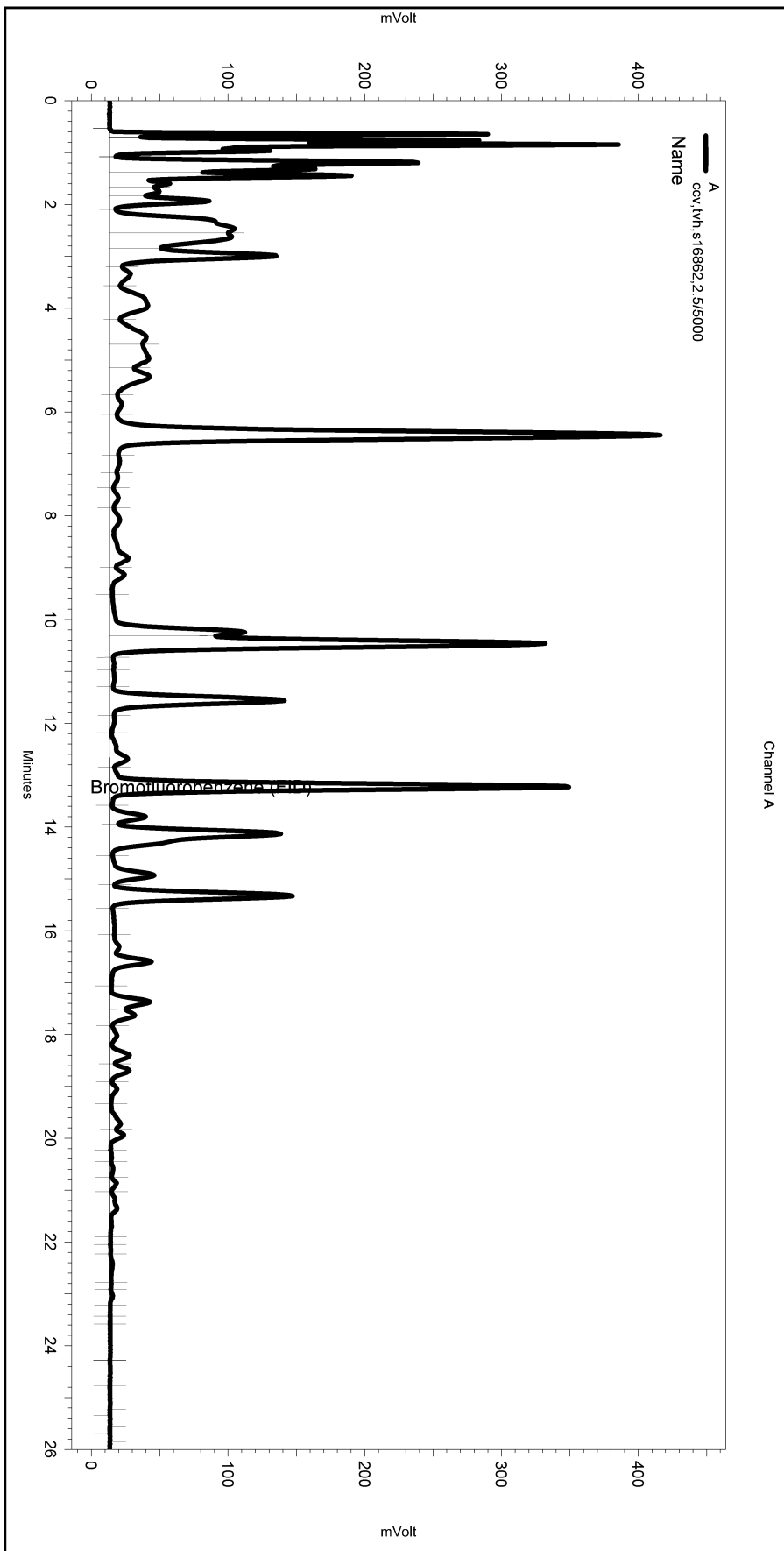
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\075-037

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Yes	Lowest Point Horizontal Baseli	0.238	25.214	0

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 Sample Name: ccv,tvh,s16862,2.5/5000  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\075-002  
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/16/2011 10:48:34 AM  
 Analysis Date: 3/16/2011 11:17:17 AM  
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 Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

Manual Integration Fixes

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None				



Total Extractable Hydrocarbons		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/14/11
Units:	mg/Kg	Received: 03/14/11
Basis:	as received	

Field ID: SB-9-2.5                      Batch#: 172844  
 Type: SAMPLE                              Prepared: 03/16/11  
 Lab ID: 226605-001                      Analyzed: 03/17/11  
 Diln Fac: 2.000

Analyte	Result	RL
Diesel C10-C24	80 Y	2.0
Motor Oil C24-C36	260	10

Surrogate	%REC	Limits
o-Terphenyl	61	52-130

Field ID: SB-9-6.5                      Batch#: 172844  
 Type: SAMPLE                              Prepared: 03/16/11  
 Lab ID: 226605-002                      Analyzed: 03/17/11  
 Diln Fac: 2.000

Analyte	Result	RL
Diesel C10-C24	27 Y	2.0
Motor Oil C24-C36	160	10

Surrogate	%REC	Limits
o-Terphenyl	69	52-130

Field ID: SB-9-12.5                      Batch#: 172844  
 Type: SAMPLE                              Prepared: 03/16/11  
 Lab ID: 226605-003                      Analyzed: 03/17/11  
 Diln Fac: 5.000

Analyte	Result	RL
Diesel C10-C24	330 Y	5.0
Motor Oil C24-C36	890	25

Surrogate	%REC	Limits
o-Terphenyl	74	52-130

Field ID: SB-12-2.5                      Batch#: 172844  
 Type: SAMPLE                              Prepared: 03/16/11  
 Lab ID: 226605-004                      Analyzed: 03/17/11  
 Diln Fac: 5.000

Analyte	Result	RL
Diesel C10-C24	140 Y	5.0
Motor Oil C24-C36	470	25

Surrogate	%REC	Limits
o-Terphenyl	71	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/14/11
Units:	mg/Kg	Received: 03/14/11
Basis:	as received	

Field ID: SB-12-7.5                      Batch#: 172844  
 Type: SAMPLE                              Prepared: 03/16/11  
 Lab ID: 226605-005                      Analyzed: 03/17/11  
 Diln Fac: 2.000

Analyte	Result	RL
Diesel C10-C24	34 Y	2.0
Motor Oil C24-C36	120	9.9

Surrogate	%REC	Limits
o-Terphenyl	74	52-130

Field ID: SB-12-12.5                      Batch#: 172844  
 Type: SAMPLE                              Prepared: 03/16/11  
 Lab ID: 226605-006                      Analyzed: 03/17/11  
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	22 Y	1.0
Motor Oil C24-C36	88	5.0

Surrogate	%REC	Limits
o-Terphenyl	72	52-130

Field ID: SB-7-2.5                         Batch#: 172844  
 Type: SAMPLE                              Prepared: 03/16/11  
 Lab ID: 226605-007                      Analyzed: 03/17/11  
 Diln Fac: 2.000

Analyte	Result	RL
Diesel C10-C24	17 Y	2.0
Motor Oil C24-C36	72	10

Surrogate	%REC	Limits
o-Terphenyl	74	52-130

Field ID: SB-7-5.0                         Batch#: 172844  
 Type: SAMPLE                              Prepared: 03/16/11  
 Lab ID: 226605-008                      Analyzed: 03/17/11  
 Diln Fac: 1.000

Analyte	Result	RL
Diesel C10-C24	11 Y	0.99
Motor Oil C24-C36	51	5.0

Surrogate	%REC	Limits
o-Terphenyl	87	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit



Total Extractable Hydrocarbons		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/14/11
Units:	mg/Kg	Received: 03/14/11
Basis:	as received	

Type:	BLANK	Batch#:	172844
Lab ID:	QC584081	Prepared:	03/16/11
Diln Fac:	1.000	Analyzed:	03/16/11

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	91	52-130

Type:	BLANK	Batch#:	172897
Lab ID:	QC584295	Prepared:	03/17/11
Diln Fac:	1.000	Analyzed:	03/17/11

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	92	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Total Extractable Hydrocarbons				
Lab #:	226605	Location:	64th & Christie/Emeryville, CA	
Client:	PES Environmental, Inc.	Prep:	SHAKER TABLE	
Project#:	241.082.02.001	Analysis:	EPA 8015B	
Type:	LCS	Diln Fac:	1.000	
Lab ID:	QC584082	Batch#:	172844	
Matrix:	Soil	Prepared:	03/16/11	
Units:	mg/Kg	Analyzed:	03/16/11	

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.90	26.44	53	44-151

Surrogate	%REC	Limits
o-Terphenyl	63	52-130



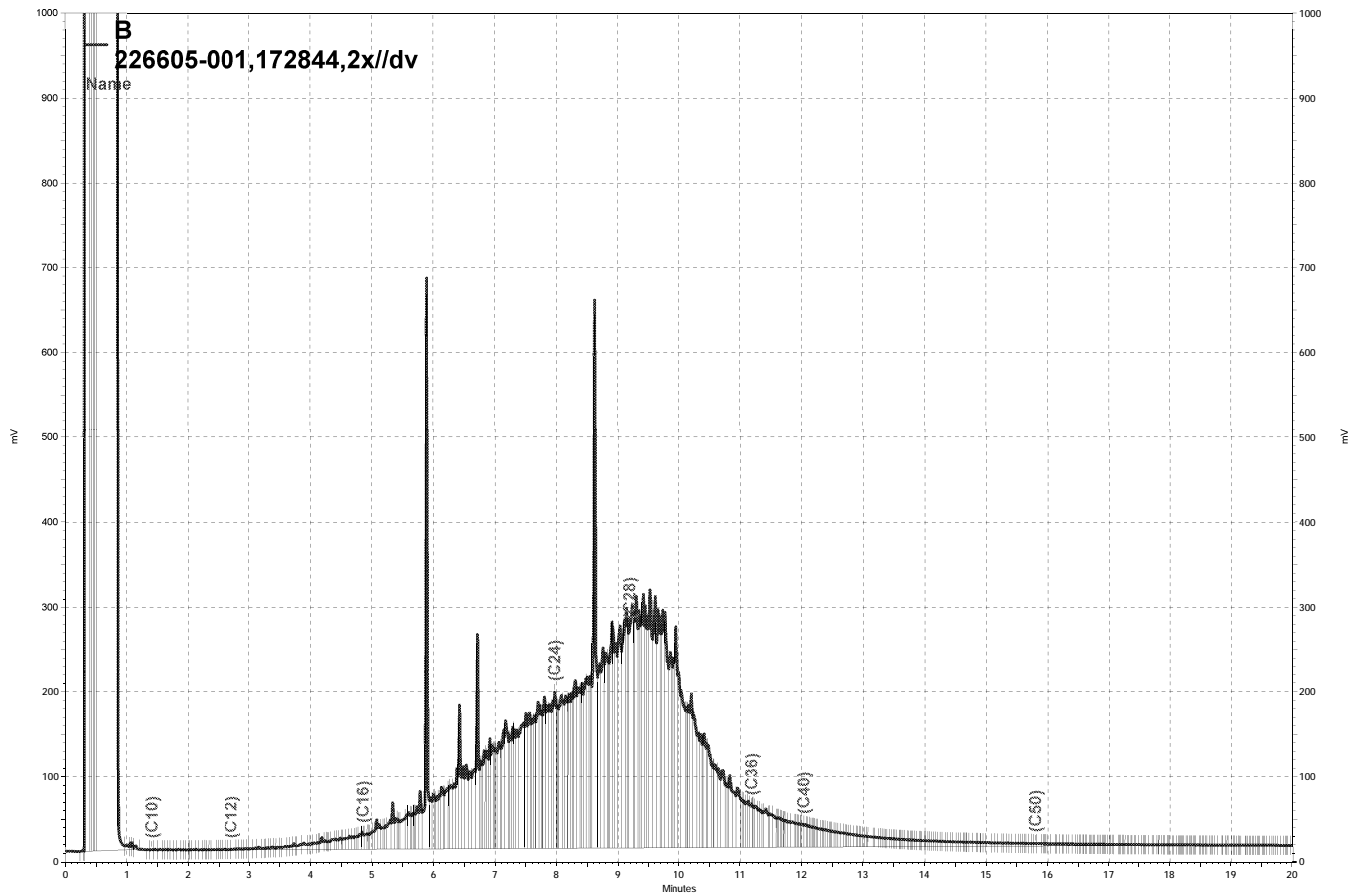
## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584296	Batch#: 172897
Matrix:	Soil	Prepared: 03/17/11
Units:	mg/Kg	Analyzed: 03/17/11

Cleanup Method: EPA 3630C

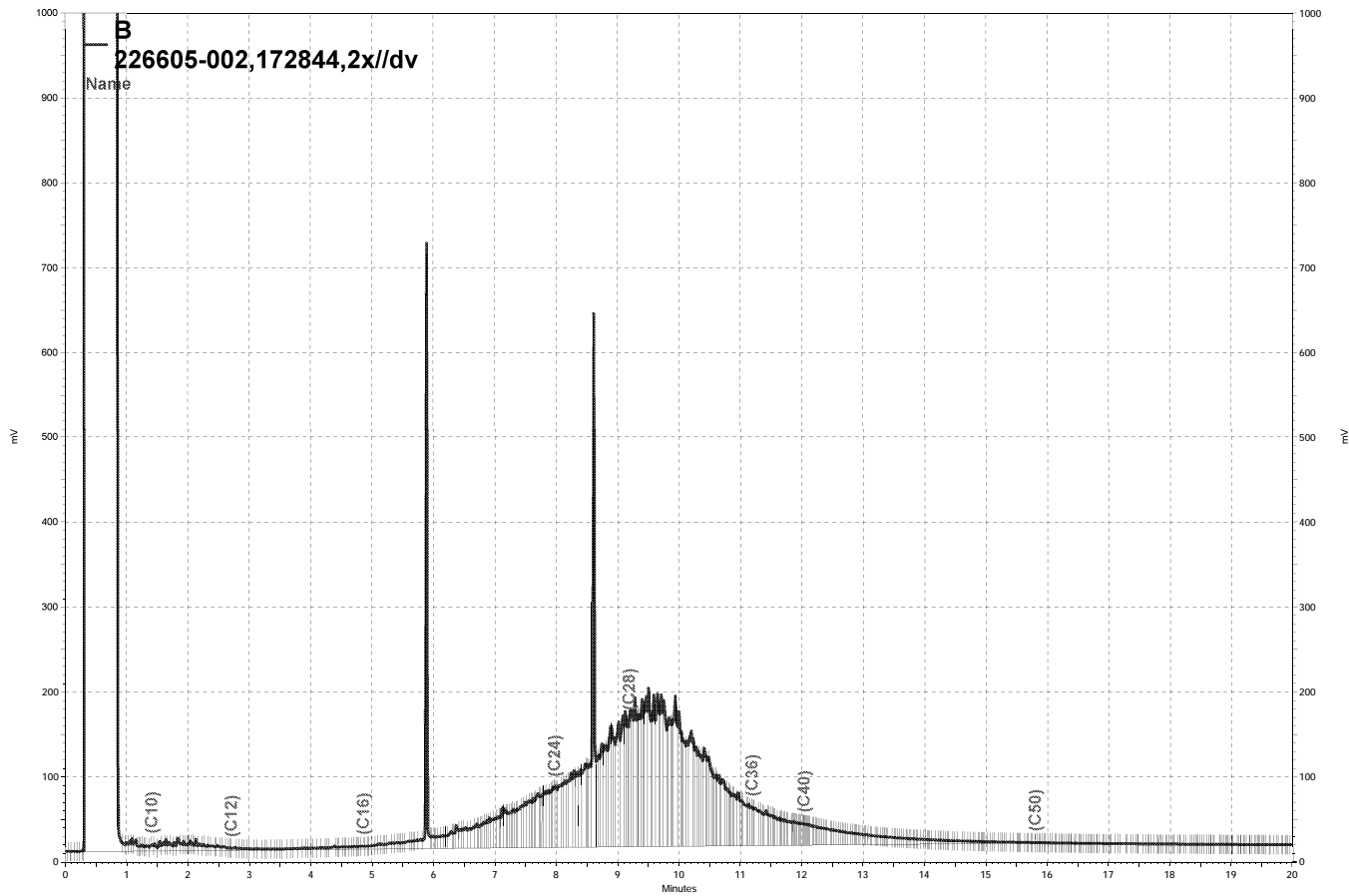
Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.40	40.39	80	44-151

Surrogate	%REC	Limits
o-Terphenyl	84	52-130

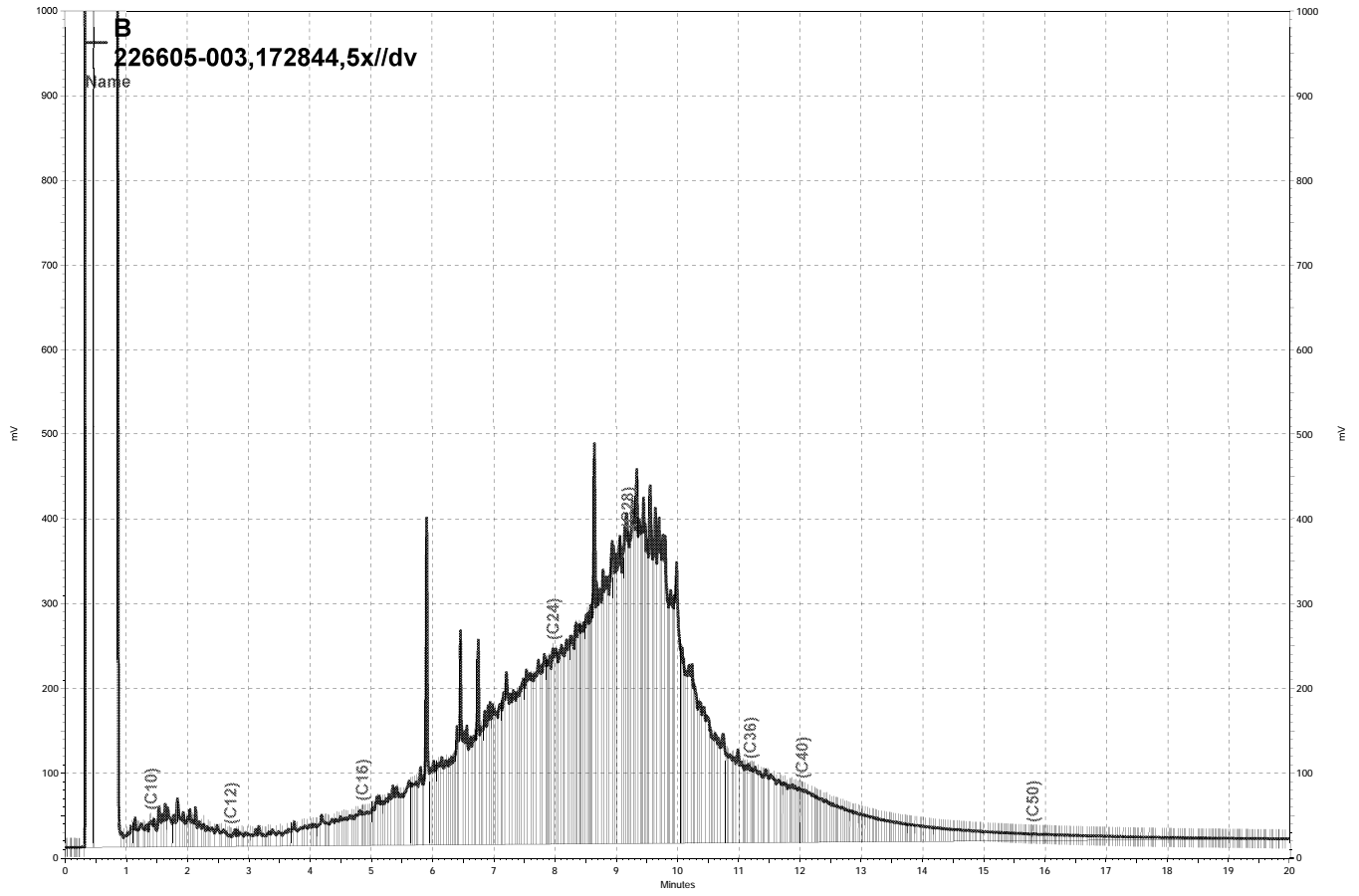


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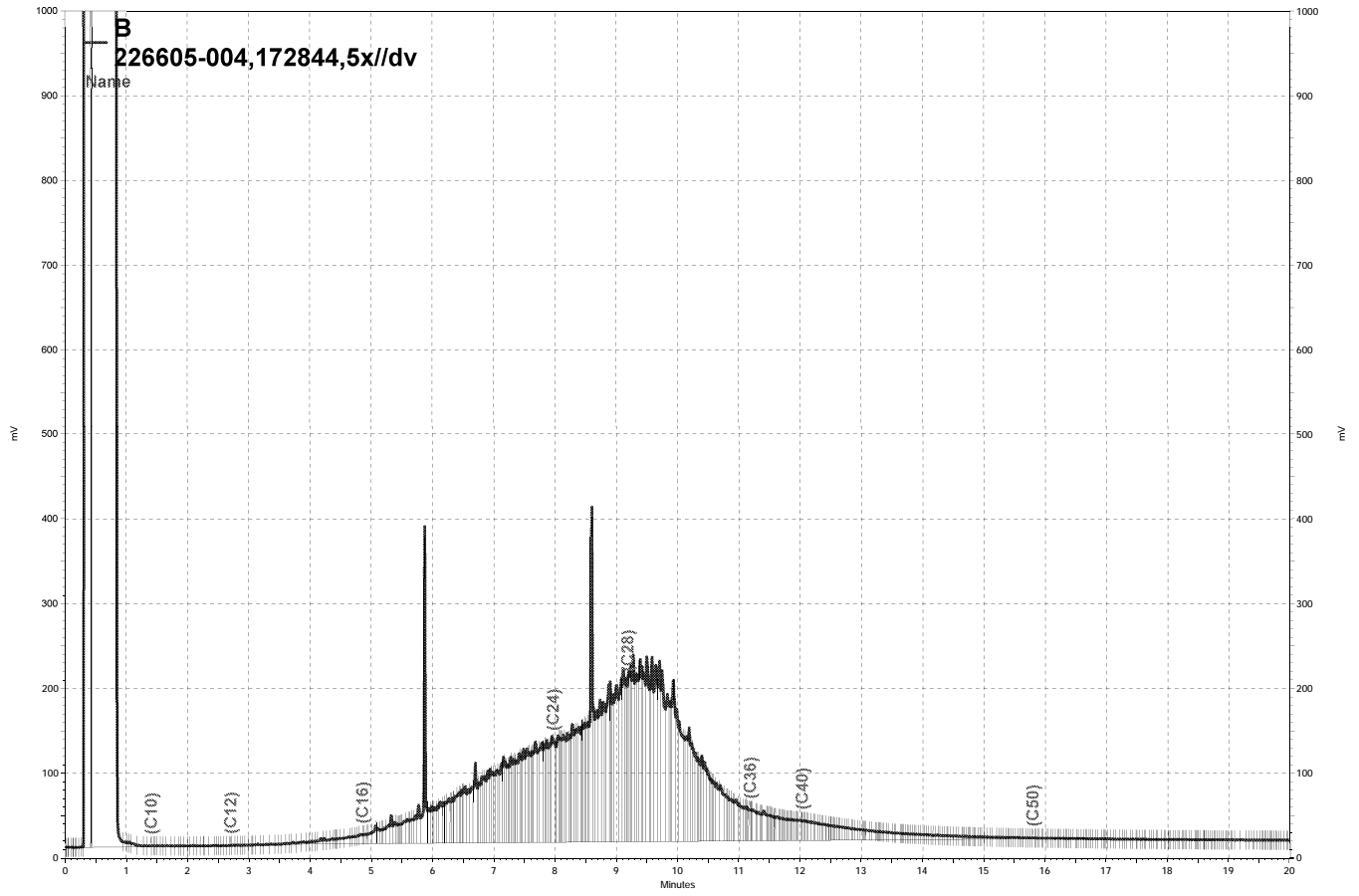




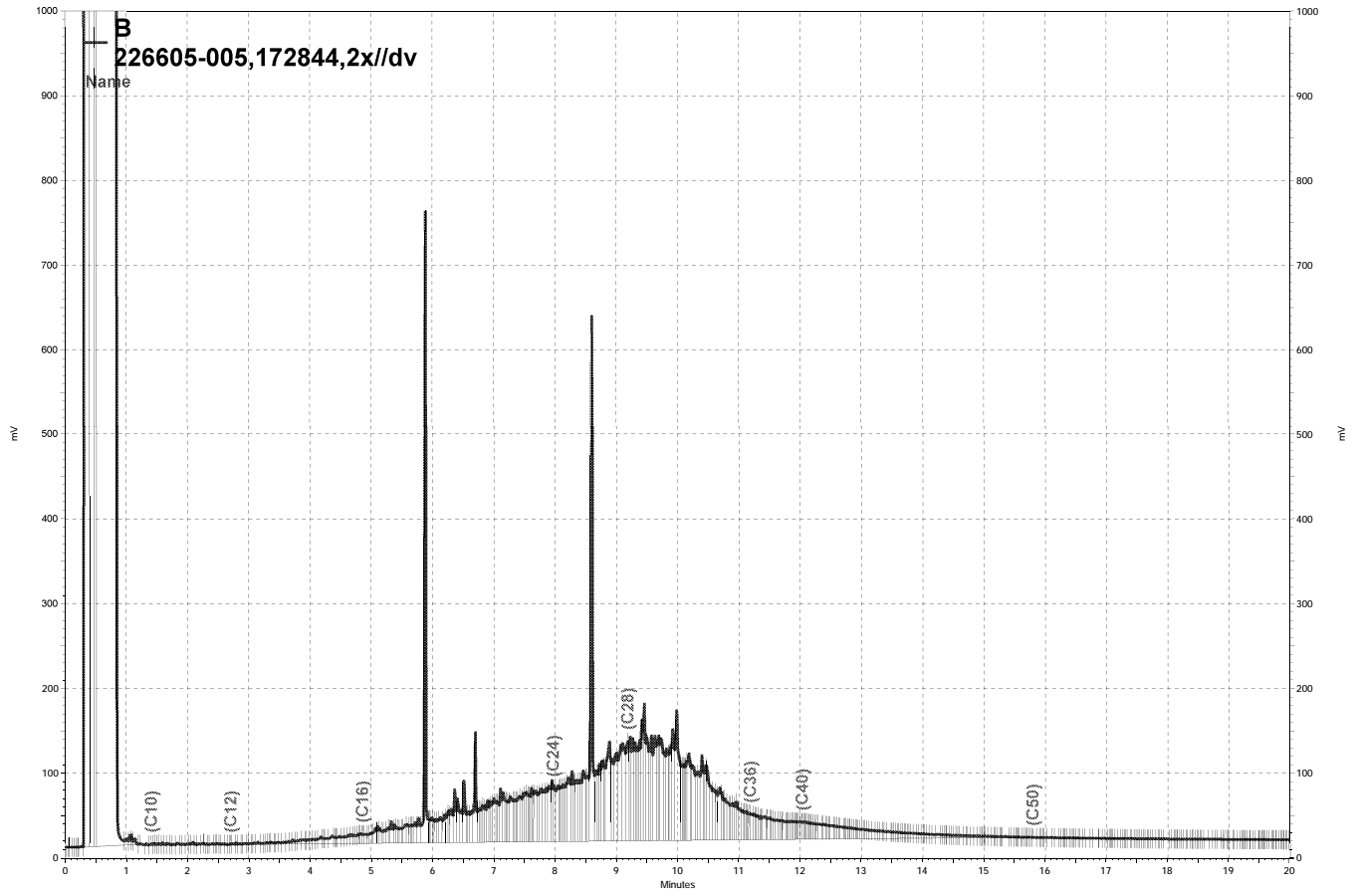
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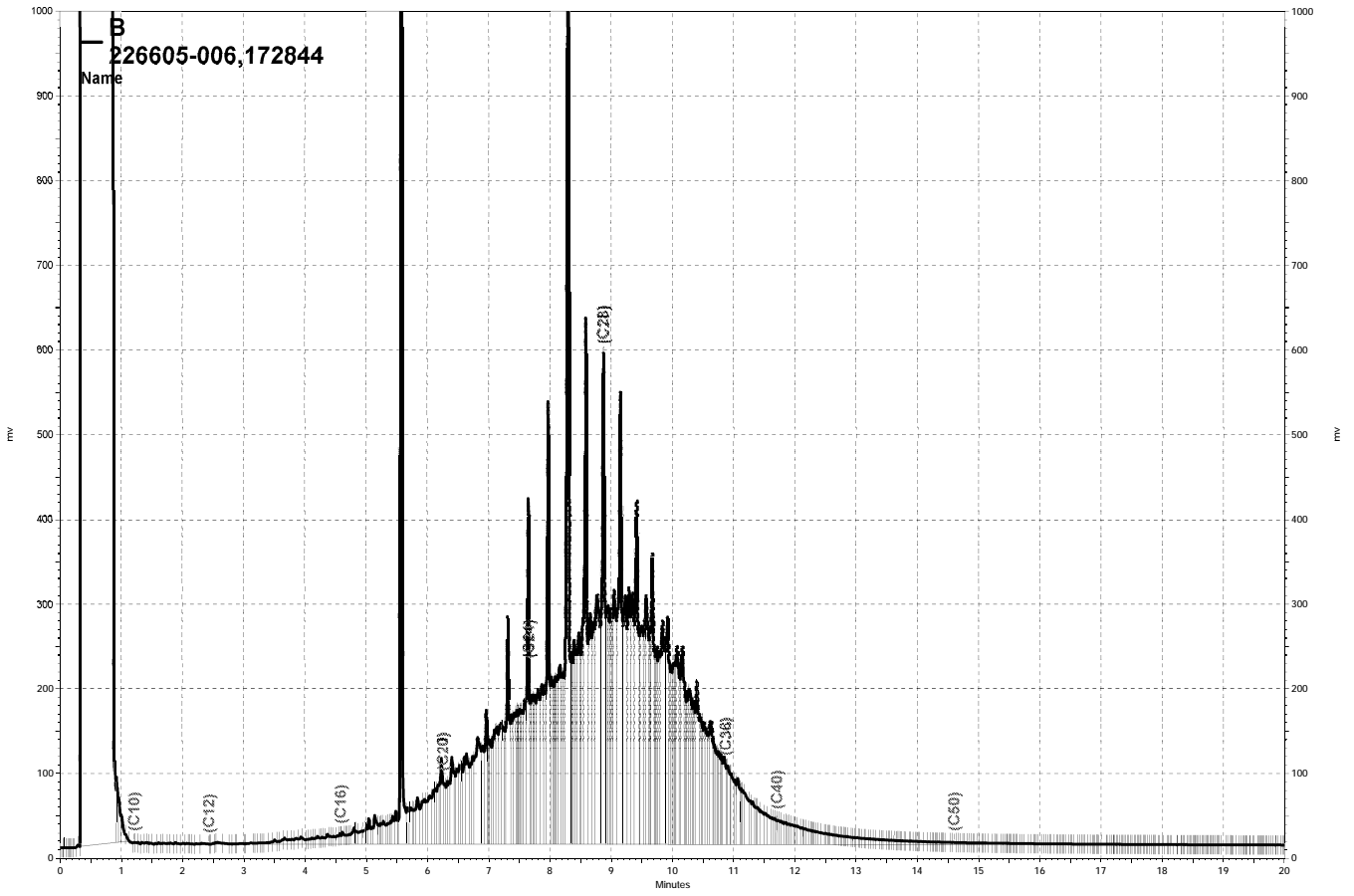
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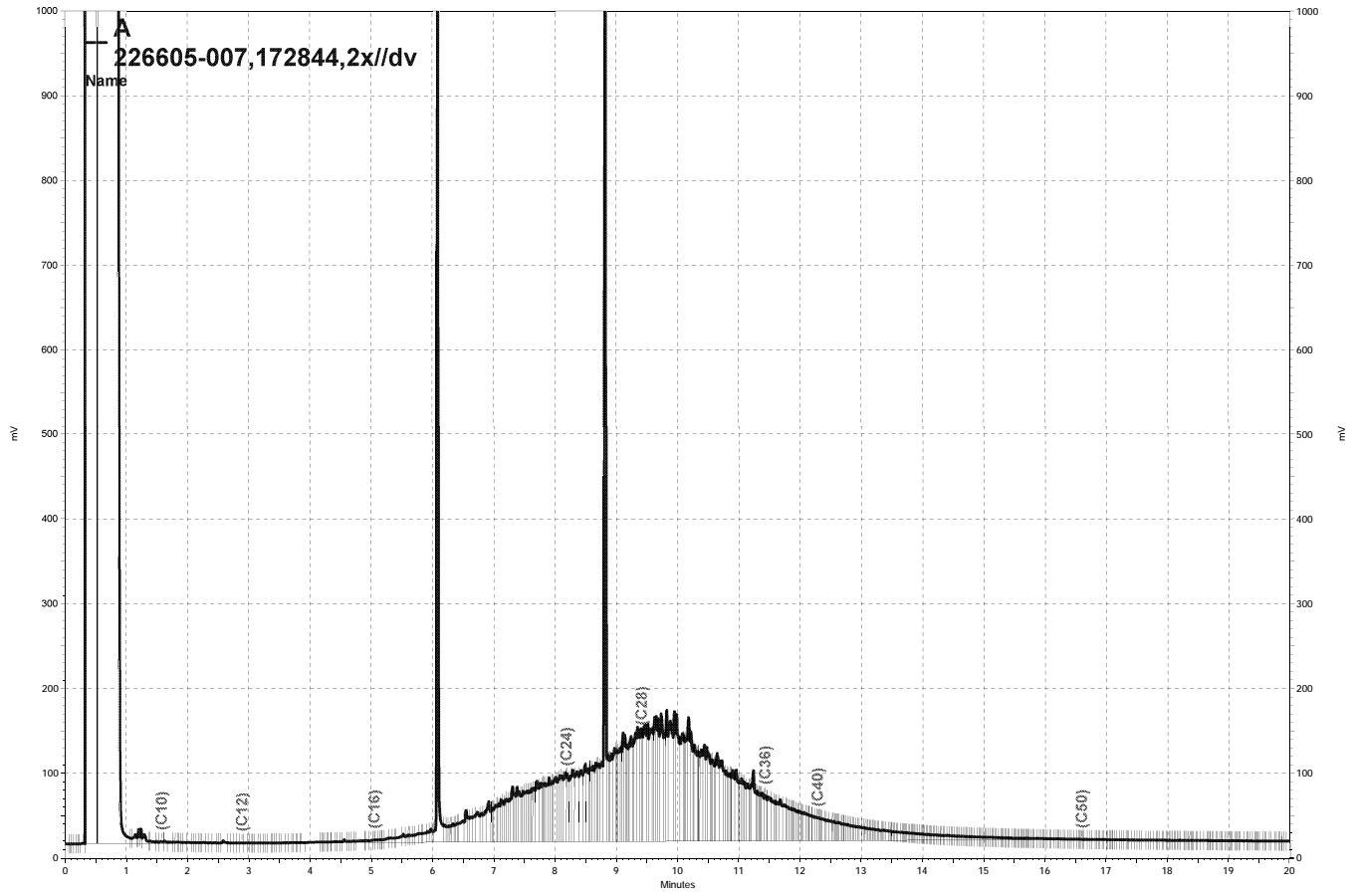
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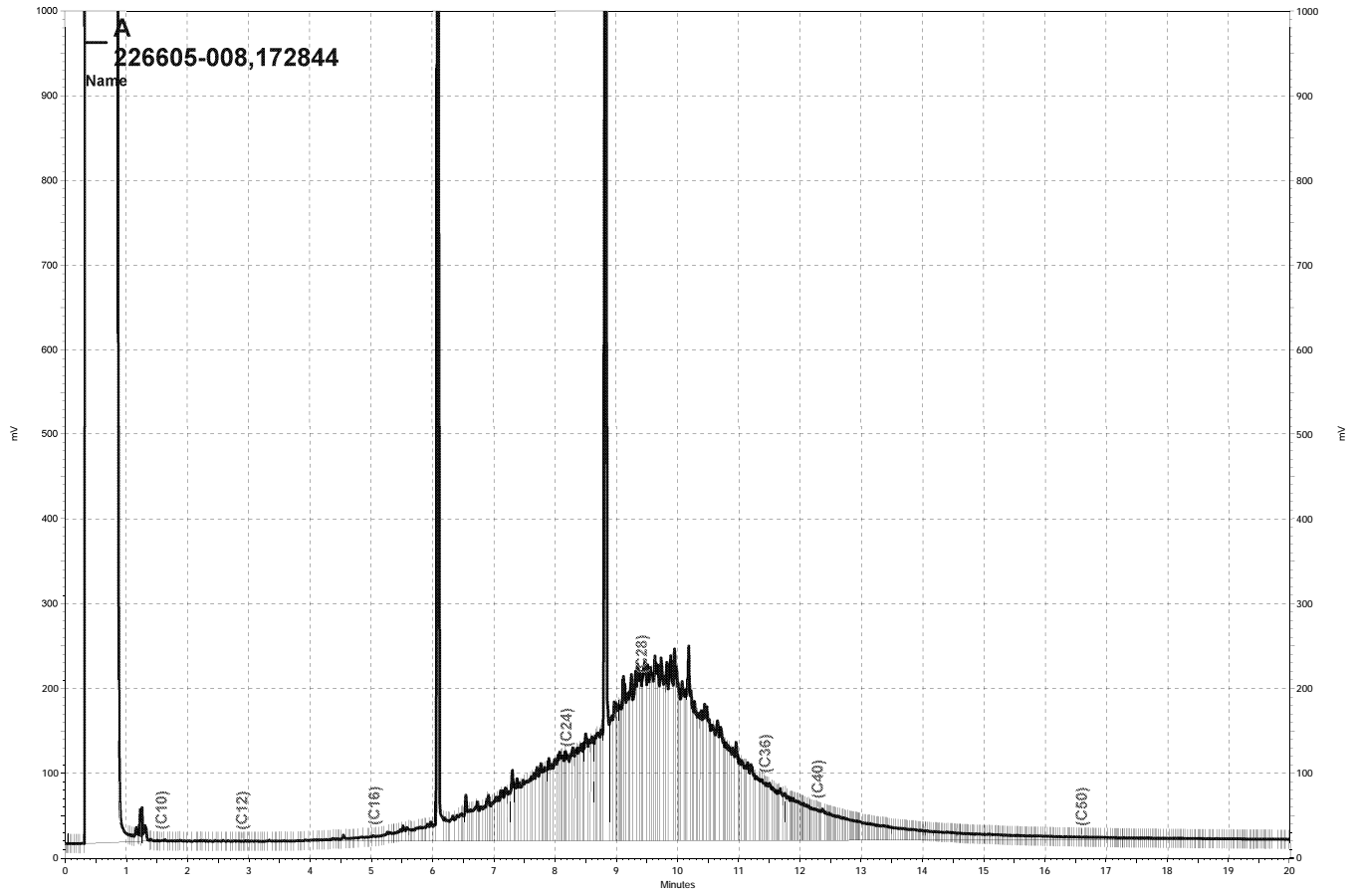
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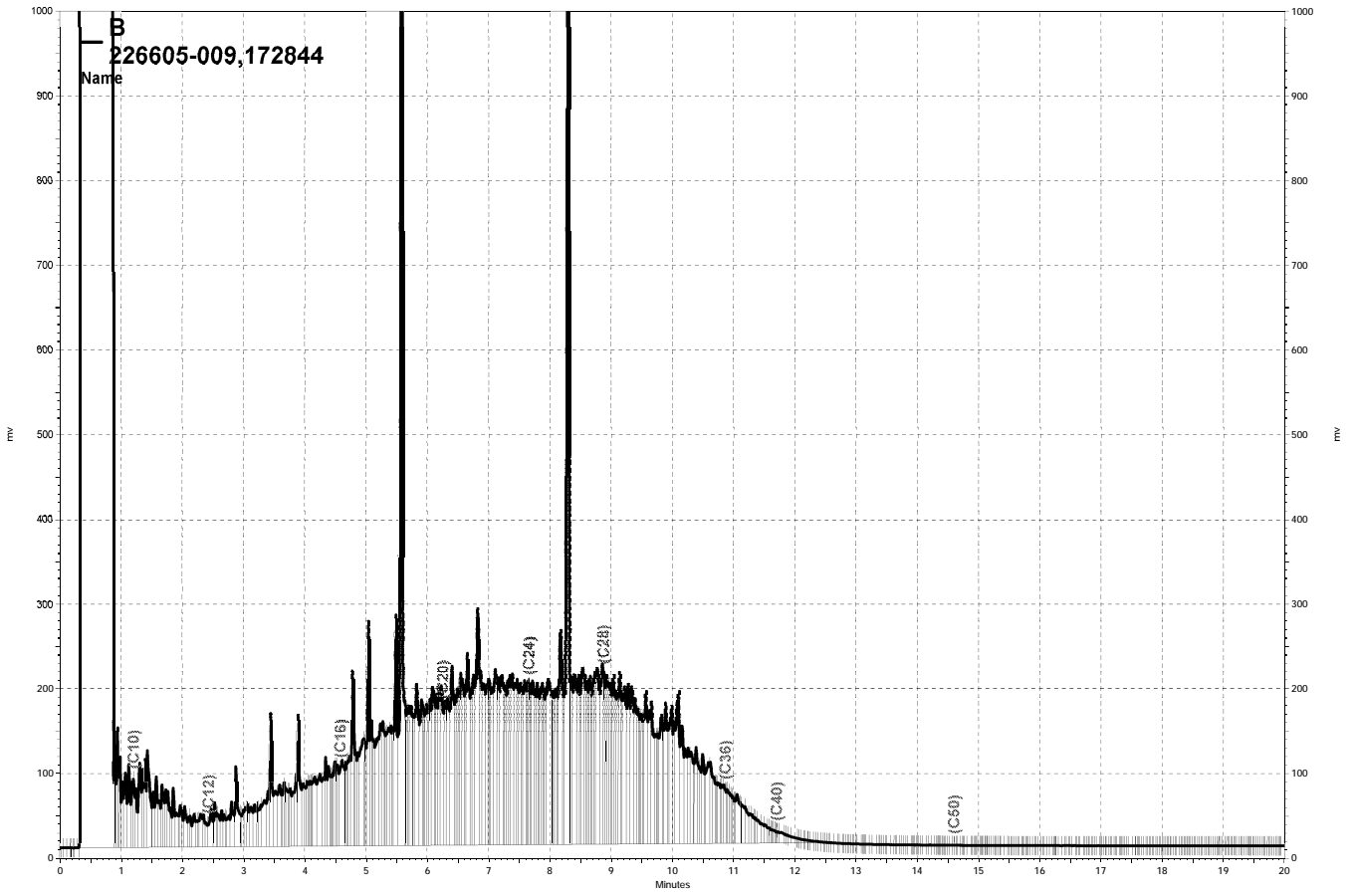
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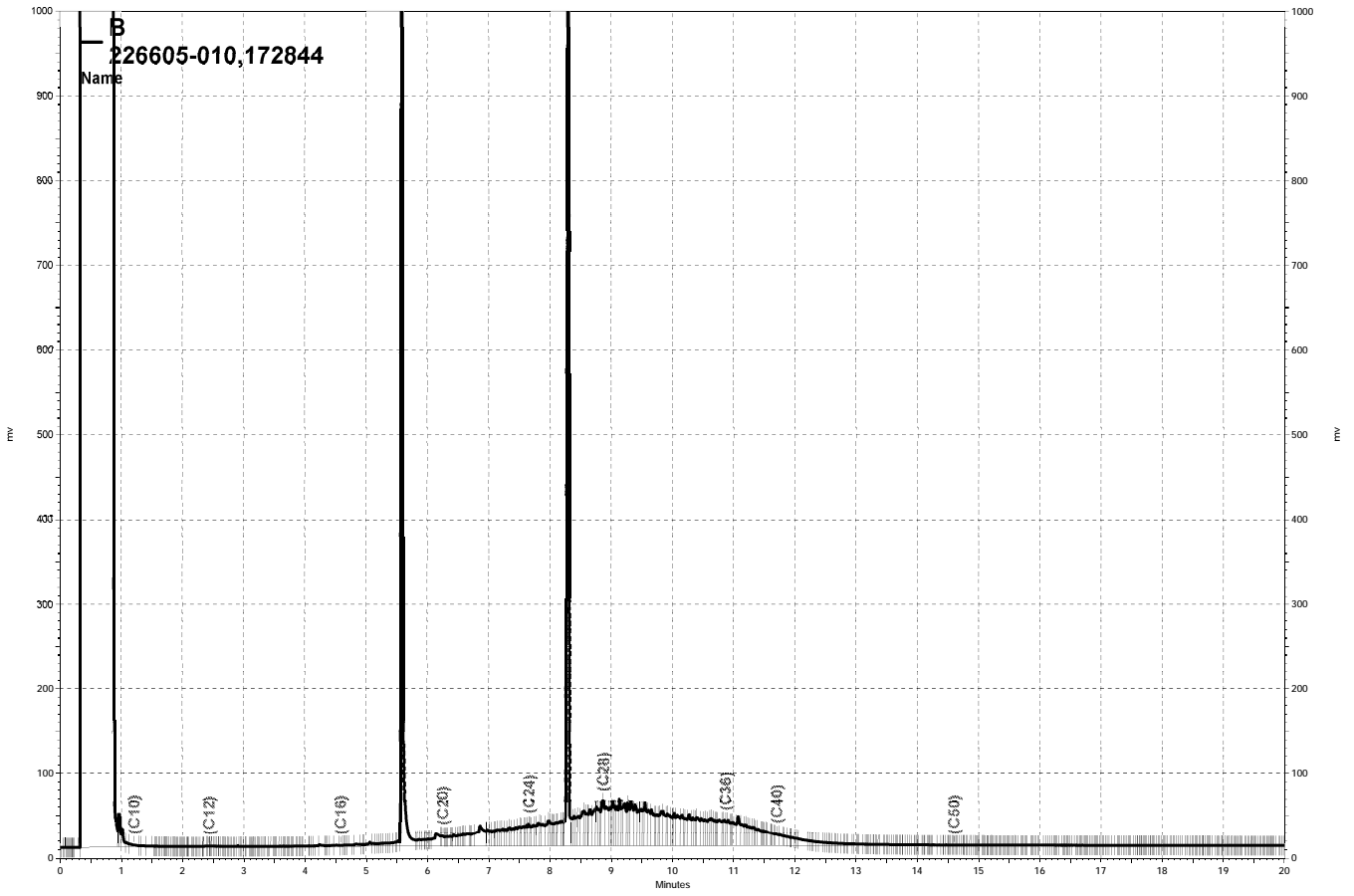


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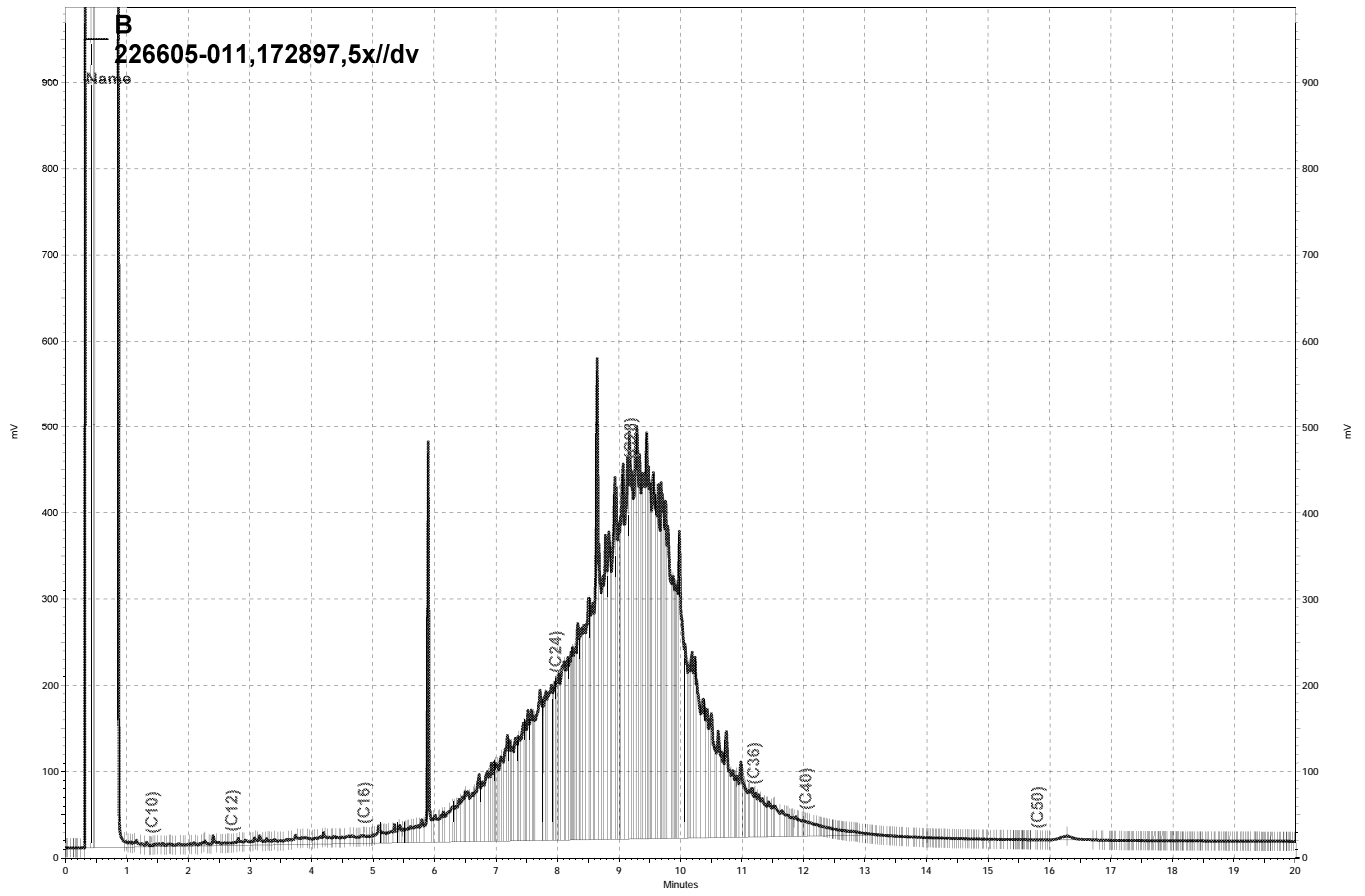


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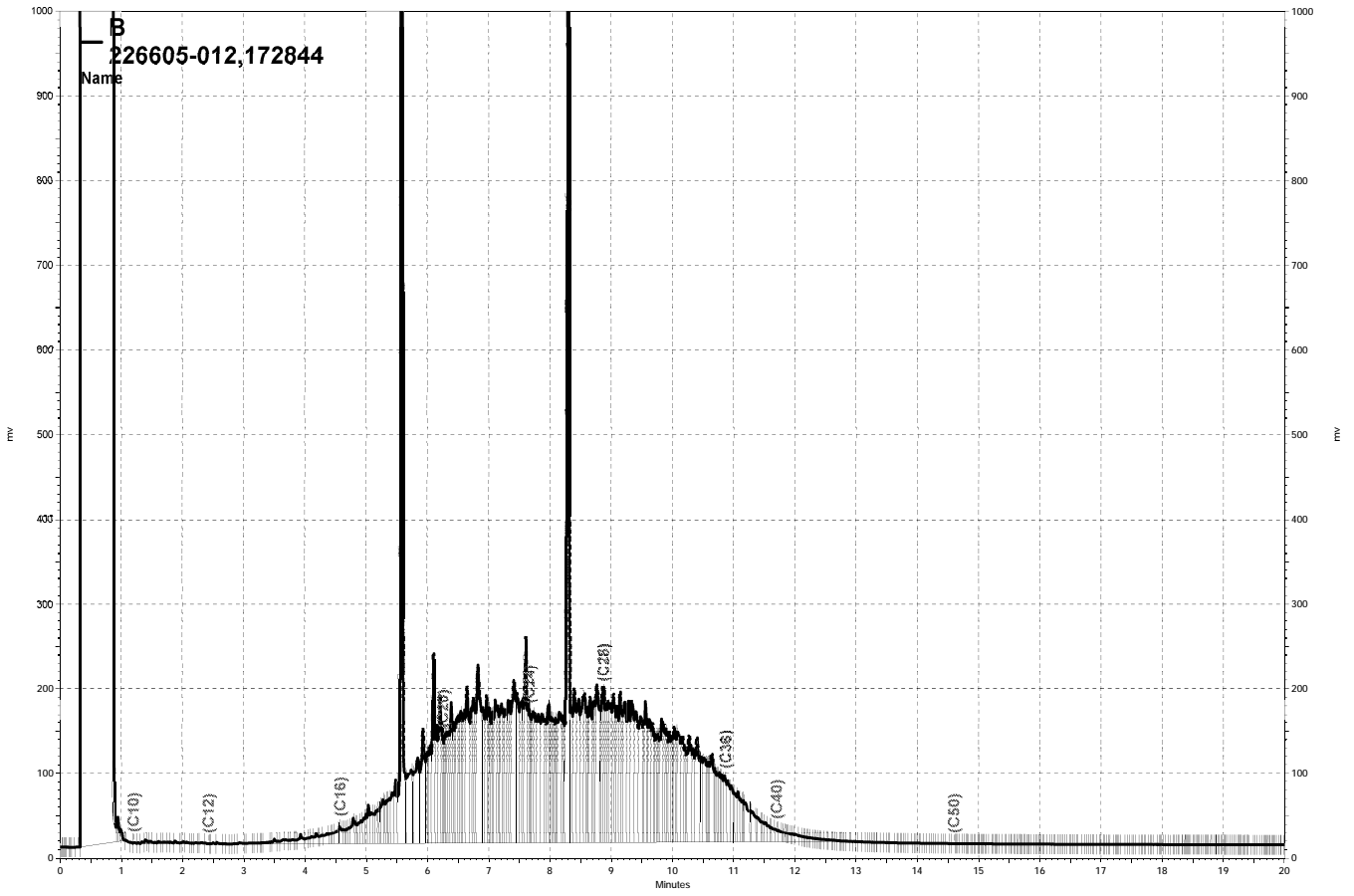




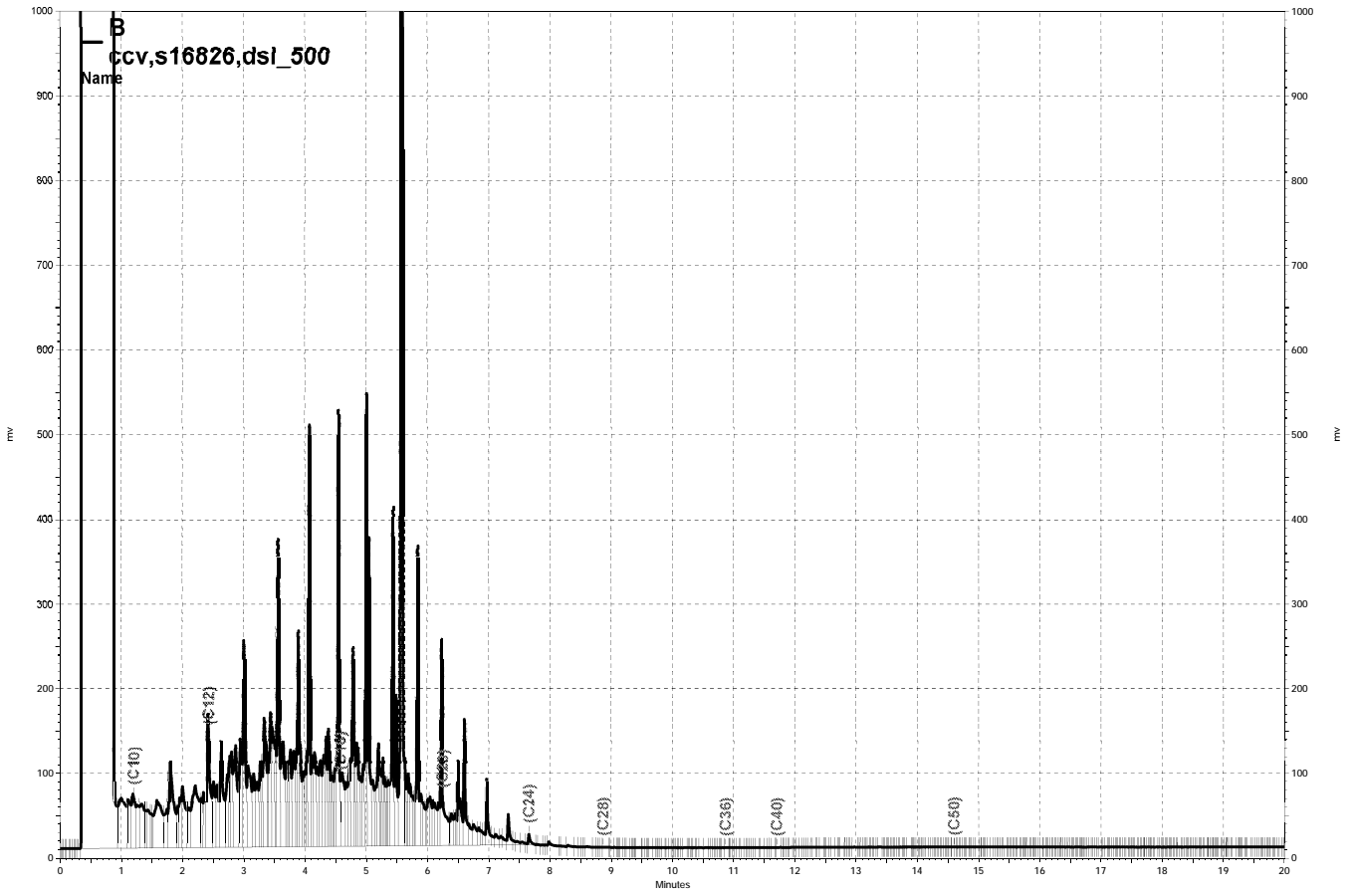
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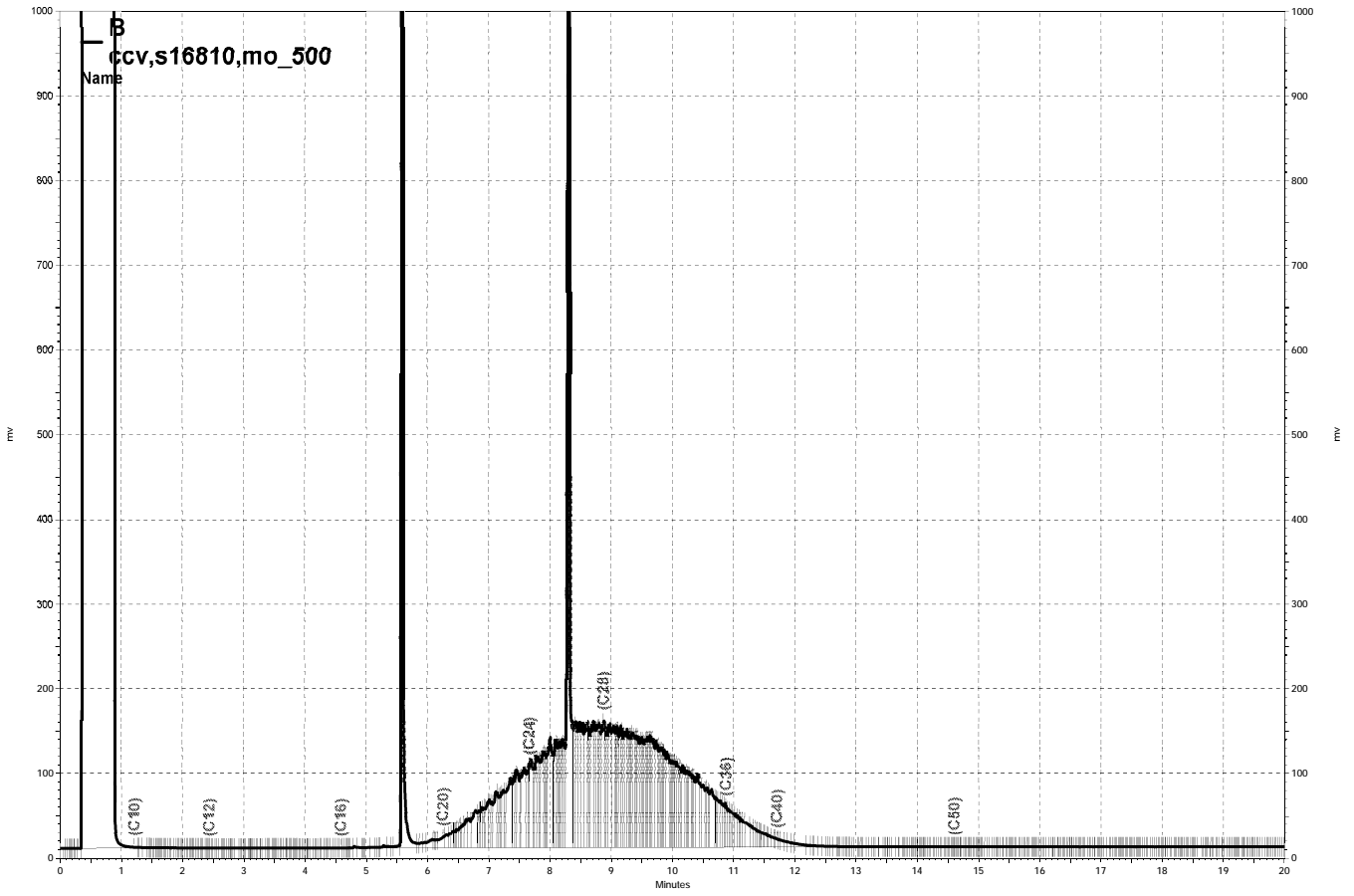
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### Purgeable Organics by GC/MS

Lab #:	226605	Location:	64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-7-2.5	Diln Fac:	0.7704
Lab ID:	226605-007	Batch#:	172812
Matrix:	Soil	Sampled:	03/14/11
Units:	ug/Kg	Received:	03/14/11
Basis:	as received	Analyzed:	03/16/11

Analyte	Result	RL
Freon 12	ND	7.7
Chloromethane	ND	7.7
Vinyl Chloride	ND	7.7
Bromomethane	ND	7.7
Chloroethane	ND	7.7
Trichlorofluoromethane	ND	3.9
Acetone	ND	15
Freon 113	ND	3.9
1,1-Dichloroethene	ND	3.9
Methylene Chloride	ND	15
Carbon Disulfide	ND	3.9
MTBE	ND	3.9
trans-1,2-Dichloroethene	ND	3.9
Vinyl Acetate	ND	39
1,1-Dichloroethane	ND	3.9
2-Butanone	ND	7.7
cis-1,2-Dichloroethene	ND	3.9
2,2-Dichloropropane	ND	3.9
Chloroform	ND	3.9
Bromochloromethane	ND	3.9
1,1,1-Trichloroethane	ND	3.9
1,1-Dichloropropene	ND	3.9
Carbon Tetrachloride	ND	3.9
1,2-Dichloroethane	ND	3.9
Benzene	ND	3.9
Trichloroethene	ND	3.9
1,2-Dichloropropane	ND	3.9
Bromodichloromethane	ND	3.9
Dibromomethane	ND	3.9
4-Methyl-2-Pentanone	ND	7.7
cis-1,3-Dichloropropene	ND	3.9
Toluene	ND	3.9
trans-1,3-Dichloropropene	ND	3.9
1,1,2-Trichloroethane	ND	3.9
2-Hexanone	ND	7.7
1,3-Dichloropropane	ND	3.9
Tetrachloroethene	ND	3.9

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226605	Location:	64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-7-2.5	Diln Fac:	0.7704
Lab ID:	226605-007	Batch#:	172812
Matrix:	Soil	Sampled:	03/14/11
Units:	ug/Kg	Received:	03/14/11
Basis:	as received	Analyzed:	03/16/11

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

Surrogate	%REC	Limits
Dibromofluoromethane	101	79-120
1,2-Dichloroethane-d4	97	72-148
Toluene-d8	101	80-120
Bromofluorobenzene	108	78-130

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC583966	Batch#: 172812
Matrix:	Soil	Analyzed: 03/16/11
Units:	ug/Kg	

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

ND= Not Detected

RL= Reporting Limit



**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC583966	Batch#: 172812
Matrix:	Soil	Analyzed: 03/16/11
Units:	ug/Kg	

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

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	97	79-120
1,2-Dichloroethane-d4	95	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	101	78-130

ND= Not Detected

RL= Reporting Limit

## Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC583967	Batch#: 172812
Matrix:	Soil	Analyzed: 03/16/11
Units:	ug/Kg	

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	16.95	85	68-134
Benzene	20.00	21.09	105	80-128
Trichloroethene	20.00	19.00	95	75-130
Toluene	20.00	18.67	93	80-130
Chlorobenzene	20.00	19.41	97	80-126

Surrogate	%REC	Limits
Dibromofluoromethane	96	79-120
1,2-Dichloroethane-d4	98	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	91	78-130



Semivolatile Organics by GC/MS			
Lab #:	226605	Location:	64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-7-2.5	Batch#:	172878
Lab ID:	226605-007	Sampled:	03/14/11
Matrix:	Soil	Received:	03/14/11
Units:	ug/Kg	Prepared:	03/17/11
Basis:	as received	Analyzed:	03/17/11
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	67
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	67
Hexachlorocyclopentadiene	ND	670
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	670
Dimethylphthalate	ND	330
Acenaphthylene	ND	67
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	670
Acenaphthene	ND	67
2,4-Dinitrophenol	ND	670
4-Nitrophenol	ND	670
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	67
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	670
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	670
Phenanthrene	ND	67
Anthracene	ND	67
Di-n-butylphthalate	ND	330

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-7-2.5	Batch#: 172878
Lab ID:	226605-007	Sampled: 03/14/11
Matrix:	Soil	Received: 03/14/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/17/11
Diln Fac:	1.000	

Analyte	Result	RL
Fluoranthene	ND	67
Pyrene	ND	67
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67

Surrogate	%REC	Limits
2-Fluorophenol	71	35-120
Phenol-d5	75	33-120
2,4,6-Tribromophenol	77	30-120
Nitrobenzene-d5	63	43-120
2-Fluorobiphenyl	74	47-120
Terphenyl-d14	70	40-120

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584221	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
Fluoranthene	ND	66

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Semivolatile Organics by GC/MS		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584221	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

Analyte	Result	RL
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	93	35-120
Phenol-d5	94	33-120
2,4,6-Tribromophenol	69	30-120
Nitrobenzene-d5	70	43-120
2-Fluorobiphenyl	83	47-120
Terphenyl-d14	78	40-120

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584222	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

<b>Analyte</b>	<b>Spiked</b>	<b>Result</b>	<b>%REC</b>	<b>Limits</b>
Phenol	2,665	2,184	82	39-120
2-Chlorophenol	2,665	2,258	85	44-120
1,4-Dichlorobenzene	2,665	2,091	78	46-120
N-Nitroso-di-n-propylamine	2,665	2,209	83	33-120
1,2,4-Trichlorobenzene	2,665	2,200	83	48-120
4-Chloro-3-methylphenol	2,665	2,099	79	47-120
Acenaphthene	999.3	812.8	81	47-120
4-Nitrophenol	2,665	1,947	73	35-120
2,4-Dinitrotoluene	2,665	2,152	81	46-120
Pentachlorophenol	2,665	2,104	79	25-120
Pyrene	999.3	791.9	79	45-120

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
2-Fluorophenol	84	35-120
Phenol-d5	85	33-120
2,4,6-Tribromophenol	86	30-120
Nitrobenzene-d5	68	43-120
2-Fluorobiphenyl	72	47-120
Terphenyl-d14	68	40-120



**Batch QC Report**

Semivolatile Organics by GC/MS		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#: 172878
MSS Lab ID:	226568-028	Sampled: 03/09/11
Matrix:	Soil	Received: 03/11/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/17/11
Diln Fac:	1.000	

Type: MS Lab ID: QC584223

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<14.82	2,649	2,087	79	41-120
2-Chlorophenol	<13.77	2,649	2,137	81	44-120
1,4-Dichlorobenzene	<7.231	2,649	1,923	73	46-120
N-Nitroso-di-n-propylamine	<15.00	2,649	2,123	80	36-120
1,2,4-Trichlorobenzene	<8.374	2,649	2,035	77	48-120
4-Chloro-3-methylphenol	<8.558	2,649	2,007	76	47-120
Acenaphthene	<6.608	993.4	779.0	78	45-120
4-Nitrophenol	<6.996	2,649	1,951	74	35-120
2,4-Dinitrotoluene	<8.230	2,649	2,130	80	44-120
Pentachlorophenol	<101.3	2,649	1,659	63	19-120
Pyrene	<7.224	993.4	777.8	78	41-120

Surrogate	%REC	Limits
2-Fluorophenol	76	35-120
Phenol-d5	80	33-120
2,4,6-Tribromophenol	77	30-120
Nitrobenzene-d5	63	43-120
2-Fluorobiphenyl	68	47-120
Terphenyl-d14	67	40-120

Type: MSD Lab ID: QC584224

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,642	2,170	82	41-120	4	45
2-Chlorophenol	2,642	1,934	73	44-120	10	44
1,4-Dichlorobenzene	2,642	1,632	62	46-120	16	41
N-Nitroso-di-n-propylamine	2,642	2,418	92	36-120	13	50
1,2,4-Trichlorobenzene	2,642	1,566	59	48-120	26	39
4-Chloro-3-methylphenol	2,642	1,796	68	47-120	11	40
Acenaphthene	990.8	682.8	69	45-120	13	39
4-Nitrophenol	2,642	1,685	64	35-120	14	57
2,4-Dinitrotoluene	2,642	1,847	70	44-120	14	42
Pentachlorophenol	2,642	1,543	58	19-120	7	66
Pyrene	990.8	668.6	67	41-120	15	52

Surrogate	%REC	Limits
2-Fluorophenol	81	35-120
Phenol-d5	87	33-120
2,4,6-Tribromophenol	70	30-120
Nitrobenzene-d5	55	43-120
2-Fluorobiphenyl	61	47-120
Terphenyl-d14	58	40-120

RPD= Relative Percent Difference

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-9-2.5	Basis:	as received
Lab ID:	226605-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.2	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	8.8	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	150	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.34	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	1.5	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	36	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	8.8	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	200	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	95	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.32	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	0.31	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	42	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	250	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-9-6.5	Basis:	as received
Lab ID:	226605-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	1.1	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	3.2	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	150	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.52	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	39	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	8.3	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	24	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	11	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.23	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	36	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	43	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	43	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-9-12.5	Basis:	as received
Lab ID:	226605-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	1.4	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	3.2	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	190	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.16	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	0.35	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	8.5	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	5.2	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	12	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	36	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.12	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	8.2	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/17/11	EPA 3050B	EPA 6010B
Vanadium	25	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	270	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-12-2.5	Basis:	as received
Lab ID:	226605-004	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.6	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	20	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	190	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.30	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	0.95	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	36	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	8.1	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	170	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	180	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.69	0.021	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	0.92	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	37	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	32	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	260	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-12-7.5	Basis:	as received
Lab ID:	226605-005	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.9	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	5.4	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	180	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.38	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	0.82	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	35	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	8.7	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	160	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	160	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.26	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	0.56	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	42	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	0.42	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	33	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	380	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-12-12.5	Basis:	as received
Lab ID:	226605-006	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	1.1	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	5.1	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	210	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.42	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	0.28	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	47	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	9.3	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	27	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	130	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.17	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	42	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	140	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-7-2.5	Basis:	as received
Lab ID:	226605-007	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.1	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	5.5	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	440	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.42	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	0.61	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	41	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	8.4	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	72	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	210	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.090	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	62	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	33	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	290	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-7-5.0	Basis:	as received
Lab ID:	226605-008	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.6	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	3.6	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	150	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.32	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	0.51	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	18	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	7.9	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	38	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	83	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.17	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	19	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	150	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-7-12.0	Basis:	as received
Lab ID:	226605-009	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.94	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	8.9	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	69	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.38	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	0.62	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	62	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	9.6	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	35	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	48	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.83	0.021	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	54	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	0.32	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	45	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	110	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-8-2.5	Basis:	as received
Lab ID:	226605-010	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	4.9	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	31	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.12	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	32	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	9.2	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	8.1	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	3.4	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.066	0.021	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	42	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	35	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	37	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-8-6.5	Basis:	as received
Lab ID:	226605-011	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	0.89	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	4.3	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	170	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.40	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	0.43	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	40	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	10	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	25	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	80	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.15	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	68	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/17/11	EPA 3050B	EPA 6010B
Vanadium	39	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	140	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226605	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie/Emeryville, CA
Field ID:	SB-8-12.5	Basis:	as received
Lab ID:	226605-012	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/14/11
Units:	mg/Kg	Received:	03/14/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Arsenic	1.8	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Barium	88	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Chromium	8.5	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Cobalt	2.8	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Copper	5.9	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Lead	11	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Mercury	0.18	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Nickel	7.9	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Vanadium	15	0.25	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B
Zinc	25	1.0	172807	03/15/11	03/16/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

California Title 22 Metals		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC583944	Batch#: 172807
Matrix:	Soil	Prepared: 03/15/11
Units:	mg/Kg	Analyzed: 03/16/11

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

California Title 22 Metals			
Lab #:	226605	Location:	64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	241.082.02.001	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	172807
Units:	mg/Kg	Prepared:	03/15/11
Diln Fac:	1.000	Analyzed:	03/16/11

Type: BS Lab ID: QC583945

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.5	102	80-120
Arsenic	50.00	52.17	104	80-120
Barium	100.0	98.53	99	80-120
Beryllium	2.500	2.669	107	80-120
Cadmium	10.00	10.20	102	80-120
Chromium	100.0	99.20	99	80-120
Cobalt	25.00	24.57	98	80-120
Copper	12.50	12.46	100	78-120
Lead	100.0	98.75	99	80-120
Molybdenum	20.00	20.35	102	80-120
Nickel	25.00	24.59	98	80-120
Selenium	50.00	50.06	100	80-120
Silver	10.00	9.780	98	80-120
Thallium	50.00	50.14	100	80-120
Vanadium	25.00	25.03	100	80-120
Zinc	25.00	25.32	101	80-120

Type: BSD Lab ID: QC583946

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	100.0	100	80-120	2	20
Arsenic	50.00	50.57	101	80-120	3	20
Barium	100.0	96.77	97	80-120	2	20
Beryllium	2.500	2.593	104	80-120	3	20
Cadmium	10.00	9.963	100	80-120	2	20
Chromium	100.0	96.55	97	80-120	3	20
Cobalt	25.00	23.94	96	80-120	3	20
Copper	12.50	12.27	98	78-120	2	20
Lead	100.0	96.28	96	80-120	3	20
Molybdenum	20.00	19.99	100	80-120	2	20
Nickel	25.00	23.90	96	80-120	3	20
Selenium	50.00	48.50	97	80-120	3	20
Silver	10.00	9.513	95	80-120	3	20
Thallium	50.00	48.87	98	80-120	3	20
Vanadium	25.00	24.43	98	80-120	2	20
Zinc	25.00	24.67	99	80-120	3	20

RPD= Relative Percent Difference

**Batch QC Report**

California Title 22 Metals		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#: 172807
MSS Lab ID:	226604-021	Sampled: 03/14/11
Matrix:	Soil	Received: 03/15/11
Units:	mg/Kg	Prepared: 03/15/11
Basis:	as received	Analyzed: 03/16/11
Diln Fac:	1.000	

Type: MS Lab ID: QC583947

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.1419	89.29	30.35	34	7-120
Arsenic	<0.07410	44.64	46.49	104	66-122
Barium	16.85	89.29	117.7	113	51-135
Beryllium	0.08762	2.232	2.371	102	73-120
Cadmium	<0.01427	8.929	8.037	90	64-120
Chromium	236.6	89.29	408.9	193 *	57-122
Cobalt	35.21	22.32	60.89	115	53-122
Copper	15.79	11.16	34.93	172 *	33-157
Lead	2.248	89.29	79.35	86	52-123
Molybdenum	0.1586	17.86	16.86	94	66-120
Nickel	752.9	22.32	731.9 >LR	-94 NM	42-137
Selenium	2.102	44.64	42.05	89	64-120
Silver	<0.06674	8.929	9.398	105	65-120
Thallium	1.671	44.64	41.27	89	55-120
Vanadium	30.31	22.32	63.90	150 *	49-139
Zinc	25.84	22.32	52.87	121	32-155

Type: MSD Lab ID: QC583948

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	33.74	34	7-120	1	44
Arsenic	50.00	51.15	102	66-122	2	35
Barium	100.0	122.3	105	51-135	6	42
Beryllium	2.500	2.584	100	73-120	2	22
Cadmium	10.00	8.675	87	64-120	4	36
Chromium	100.0	304.7	68	57-122	32	34
Cobalt	25.00	62.51	109	53-122	2	32
Copper	12.50	43.51	222 *	33-157	17	41
Lead	100.0	86.38	84	52-123	3	41
Molybdenum	20.00	17.92	89	66-120	5	20
Nickel	25.00	635.4 >LR	-470 NM	42-137	NC	36
Selenium	50.00	50.21	96	64-120	7	28
Silver	10.00	10.12	101	65-120	4	27
Thallium	50.00	44.93	87	55-120	2	27
Vanadium	25.00	78.24	192 *	49-139	15	32
Zinc	25.00	60.18	137	32-155	8	45

\*= Value outside of QC limits; see narrative  
 NC= Not Calculated  
 NM= Not Meaningful: Sample concentration > 4X spike concentration  
 >LR= Response exceeds instrument's linear range  
 RPD= Relative Percent Difference



## Batch QC Report

California Title 22 Metals			
Lab #:	226605	Location:	64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	172921
Lab ID:	QC584393	Prepared:	03/18/11
Matrix:	Soil	Analyzed:	03/18/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>California Title 22 Metals</b>		
Lab #:	226605	Location: 64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Batch#: 172921
Matrix:	Soil	Prepared: 03/18/11
Units:	mg/Kg	Analyzed: 03/18/11
Diln Fac:	1.000	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584394	0.2500	0.2610	104	80-120		
BSD	QC584395	0.2500	0.2640	106	80-120	1	20

RPD= Relative Percent Difference

**Batch QC Report**

<b>California Title 22 Metals</b>			
Lab #:	226605	Location:	64th & Christie/Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	SB-9-2.5	Batch#:	172921
MSS Lab ID:	226605-001	Sampled:	03/14/11
Matrix:	Soil	Received:	03/14/11
Units:	mg/Kg	Prepared:	03/18/11
Basis:	as received	Analyzed:	03/18/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584396	0.3191	0.2315	0.4435	54 *	72-124		
MSD	QC584397		0.2404	0.5260	86	72-124	15	31

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



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





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

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

Laboratory Job Number 226637
ANALYTICAL REPORT

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

Project : 241.082.02.001
Location : 64th & Christie Emeryville, CA
Level : II

Table with 2 columns: Sample ID and Lab ID. Lists 27 sample entries such as SB-41-2.5 (226637-001) through SB-38-12.5 (226637-027).

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

Desiree N. Tetrault

Signature: Project Manager

Date: 03/28/2011

## CASE NARRATIVE

Laboratory number: 226637  
Client: PES Environmental, Inc.  
Project: 241.082.02.001  
Location: 64th & Christie Emeryville, CA  
Request Date: 03/15/11  
Samples Received: 03/15/11

This data package contains sample and QC results for twenty seven soil samples, requested for the above referenced project on 03/15/11. The samples were received cold and intact.

### TPH-Purgeables and/or BTXE by GC (EPA 8015B):

High surrogate recovery was observed for bromofluorobenzene (FID) in SB-36-12.5 (lab # 226637-017). No other analytical problems were encountered.

### TPH-Extractables by GC (EPA 8015B):

Matrix spikes QC584512, QC584513 (batch 172955) were not reported because the parent sample was reextracted in another batch. High recovery was observed for diesel C10-C24 in the MS of SB-36-6.5 (lab # 226637-016); the LCS was within limits, and the associated RPD was within limits. Low surrogate recovery was observed for o-terphenyl in SB-37-2.5 (lab # 226637-011), was confirmed by re-analysis, and no sample remained for a re-extraction. The data shows heavy hydrocarbons which likely could have caused the low surrogate. Many samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

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

Matrix spikes were not performed for this analysis in batch 172815 due to limited sample volume or interferences from the solvent in sample dilutions. No other analytical problems were encountered.

### Semivolatile Organics by GC/MS (EPA 8270C):

SB-15-12.5 (lab # 226637-006) and SB-36-6.5 (lab # 226637-016) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

### Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for barium in the MS/MSD of SB-41-2.5 (lab # 226637-001); the BS/BSD were within limits, and the associated RPD was within limits. Low recovery was observed for mercury in the MS of SB-9-2.5 (lab # 226605-001); the BS/BSD were within limits, and the associated RPD was within limits. High recoveries were observed for mercury and lead in the MS of SB-36-2.5 (lab # 226637-015), the MSD of SB-13-2.5 (lab # 226637-021), and the MSD of SB-25-2.5 (lab # 226688-001); the BS/BSDs were within limits, and the associated RPDs were within limits. No other analytical problems were encountered.



LABORATORY: C+T  
JOB NUMBER: 241.08202.001  
NAME / LOCATION: 64<sup>th</sup> and Christie / Emeryville, CA  
PROJECT MANAGER: W Mast

SAMPLERS: K. Simmons / J. Alexander  
RECORDER: K. Simmons

	DATE				SAMPLE NUMBER / DESIGNATION
	YR	MO	DY	TIME	
1	1	10	31	509	15 SB-41-2.5
2				1000	SB-41-7.5
3				1020	SB-41-12.5
4				1025	SB-15-2.5
5				1100	SB-15-7.5
6				1130	SB-15-12.5
7				1140	SB-40-2.5
8				1145	SB-40-7.5
9				1150	SB-40-12.5
10				1210	SB-14-2.5
11				1300	SB-37-2.5
12				1305	SB-37-7.5

MATRIX	# of Containers & Preservatives								DEPTH IN FEET			
	Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>		HCl	Methanol	Water
			X		1					1	2	

ANALYSIS REQUESTED										
EPA 5035/8010										
EPA 5035/8021										
EPA 5035/8260B - VOCs										
TPHg by 5035/8015M										
TPHd by 8015M										
TPHmo by 8015M										
EPA 8270C - S VOCs										
MNA Parameters (see notes)										
T, He, 22 Metals - 6005										

**NOTES**  
Turn Around Time: Standard FAT  
Please retain samples after analysis for potential future BTLC/TCLP

CHAIN OF CUSTODY RECORD					
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
<i>[Signature]</i>	<i>[Signature]</i>		3/15/11	16:50	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)		DATE
METHOD OF SHIPMENT:					

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LABORATORY: C+T  
JOB NUMBER: 241.082.02.001  
NAME / LOCATION: 64<sup>th</sup> + Christie / Emeryville, CA  
PROJECT MANAGER: W. Mast

SAMPLERS: K. Simmons / J. Alexander  
RECORDER: K. Simmons

ANALYSIS REQUESTED										
EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B - VOCs	TPHg by 5035/8015M	TPHd by 8015M 2G/	TPHmo by 8015M 3G/	EPA 8270C - SVOCs	MNA Parameters (see notes)	122 metals - 60103		
			X	X	X			X		
		X				X				

DATE	SAMPLE NUMBER / DESIGNATION			
	YR	MO	DY	TIME
11	03	15	1310	SB-37-12.5
11	03	15	1320	SB-14-7.5
11	03	15	1340	SB-36-2.5
11	03	15	1345	SB-36-7.5
11	03	15	1350	SB-36-12.5
11	03	15	1415	SB-10-2.5
11	03	15	1420	SB-10-7.5
11	03	15	1425	SB-10-12.5
11	03	15	1430	SB-13-2.5
11	03	15	1450	SB-39-2.5
11	03	15	1455	SB-39-7.5
11	03	15	1500	SB-39-12.5

MATRIX	# of Containers & Preservatives							DEPTH IN FEET			
	Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>		HNO <sub>3</sub>	HCl	Method
			X		1					1	2

**NOTES**  
Turn Around Time: Standard TAT  
Please retain samples after analysis for potential future SILC/TCLP  
Page 2 of 3

CHAIN OF CUSTODY RECORD						
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature)	DATE	TIME
<i>[Signature]</i>				<i>[Signature]</i>	3/15/11	16:50
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)				RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME	
METHOD OF SHIPMENT:						

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LABORATORY: C+T

SAMPLERS: K. Simmons / J. Alexander

JOB NUMBER: 241.082.02.001

NAME / LOCATION: 64<sup>th</sup> and Christie / Emeryville, CA

PROJECT MANAGER: W. Meyst

RECORDER: K. Simmons

ANALYSIS REQUESTED

DATE				SAMPLE NUMBER / DESIGNATION
YR	MO	DY	TIME	
25	11	03	15:35	SB-38-2.5
26	↓	↓	↓	1540 SB-38-7.5
27	↓	↓	↓	1545 SB-38-12.5

MATRIX				# of Containers & Preservatives							DEPTH IN FEET
Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	Water	
		X		1					1	2	
		X		1					1	2	
		X		1					1	4	

EPA 5035/8010	
EPA 5035/8021	
EPA 5035/8260B - VOCs	
TPHg by 5035/8015M	X
TPHd by 8015M	X
TPHmo by 8015M	X
EPA 8270C - SVOCs	X
MNA Parameters (see notes)	
T22 Metals - 600B	X

**NOTES**

Turn Around Time: Standard FAT

Please retain samples after analysis for potential future STLC/TCLP

Page 3 of 3

**CHAIN OF CUSTODY RECORD**

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME		
<u>[Signature]</u>	<u>[Signature]</u>	3/19/04	16:50		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME		
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:					

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 226037 Date Received 3/15/11 Number of coolers 2  
 Client PEs Project 6th and Christie  
 Date Opened 3/15/11 By (print) R. Paris (sign) [Signature]  
 Date Logged in 3/16/11 By (print) ↓ (sign) [Signature]

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

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

2B. Were custody seals intact upon arrival? \_\_\_\_\_ YES NO (N/A)

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

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

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

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

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

7. Temperature documentation:

Type of ice used:  Wet  Blue/Gel  None Temp(°C) 7.9, 8.0

Samples Received on ice & cold without a temperature blank

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

8. Were Method 5035 sampling containers present? (YES) NO

If YES, what time were they transferred to freezer? terracores

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

10. Are samples in the appropriate containers for indicated tests? (YES) NO

11. Are sample labels present, in good condition and complete? (YES) NO

12. Do the sample labels agree with custody papers? (YES) NO

13. Was sufficient amount of sample sent for tests requested? (YES) NO

14. Are the samples appropriately preserved? (YES) NO N/A

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

16. Was the client contacted concerning this sample delivery? YES (NO)

If YES, Who was called? \_\_\_\_\_ By \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS

-005 no time written on label of jar.

**Desiree Tetrault**

---

**From:** "Chris Baldassari" <cbaldassari@pesenv.com>  
**To:** "Desiree Tetrault" <desiree.tetrault@ctberk.com>; "Ken Simmons" <KSimmons@pesenv.com>  
**Sent:** Monday, March 21, 2011 12:56 PM  
**Subject:** RE: 241.082 adjustments

Hi Desiree,

We don't need gravity separation for the sample, but would like silica-gel cleanup performed; please no reporting/analysis for without silica gel.

The digestion fee on analyses started already sounds fair to me; we just want to be clear on which ones shouldn't have metals reported (indicated in the COCs sent by Kenny)

Thanks,  
 Chris

---

**From:** Desiree Tetrault [mailto:desiree.tetrault@ctberk.com]  
**Sent:** Monday, March 21, 2011 12:52 PM  
**To:** Ken Simmons  
**Cc:** Chris Baldassari  
**Subject:** Re: 241.082 adjustments

Hey Ken and Chris- thanks for the update. There shouldn't be any problems changing the IDs and the requests for analyses, although for logins 226688 and 226712 we have already prepped the samples for the metals. I can remove the analyses that you listed, but will have to charge a \$10 digestion fee for the ones already started.

Could you confirm that you do or do not need gravity separation for the last water sample (226732-001) submitted on Friday? Also, do you need the results to be reported with and without silica gel cleanup?

Thank you and please feel free to call with any questions.

Desirée Tétrault  
 Project Manager  
 Curtis and Tompkins, Ltd  
 2323 Fifth Street  
 Berkeley CA 94710  
 510.204.2221  
[www.curtisandtompkins.com](http://www.curtisandtompkins.com)

----- Original Message -----

**From:** Ken Simmons  
**To:** [desiree.tetrault@ctberk.com](mailto:desiree.tetrault@ctberk.com)  
**Cc:** [Chris Baldassari](mailto:Chris Baldassari)  
**Sent:** Monday, March 21, 2011 10:58 AM  
**Subject:** 241.082 adjustments

Morning Desiree –

After reviewing the log-in sheets and COCs, there are a few adjustments to sample names and analysis that we would like to see.



# CHAIN OF CUSTODY RECORD

LABORATORY: CAT  
JOB NUMBER: 4107202.cvi  
NAME / LOCATION: City of Novato, Lakeview  
PROJECT MANAGER: [Signature]

SAMPLERS: [Signature]  
RECORDER: [Signature]

226637

YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION
		31	9:00	10-41-2.5
			10:00	10-41-7.5
			10:20	10-41-12.5
			10:25	10-5-2.5
			11:00	10-15-7.5
			11:30	10-15-12.5
			11:40	10-40-2.5
			11:45	10-40-7.5
			11:50	10-40-12.5
			12:10	10-14-2.5
			1:30	10-37-2.5
			1:35	10-37-7.5

MATRIX					# of Containers & Preservatives						DEPTH IN FEET	
Vapor	Water	Soil	Sediment		Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Other		Other
		X			1					1	2	

ANALYSIS REQUESTED	
EPA 5035/8010	
EPA 5035/8021	
EPA 5035/8260B - VOLs	X
TPHg by 5035/8015M	X
TPHd by 8015M	X
TPHmo by 8015M	X
EPA 8270C - VOLs	
MNA Parameters (see notes)	
	Table 22 METALS VOLs

**NOTES**

Turn Around Time: Standard TAT

Please retain samples after analysis for potential future DTLC/TKLP

CHAIN OF CUSTODY RECORD				
RELINQUISHED BY: (Signature)	<u>[Signature]</u>	RECEIVED BY: (Signature)	<u>[Signature]</u>	DATE TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE TIME
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE TIME
METHOD OF SHIPMENT:				



# CHAIN OF CUSTODY RECORD <sup>226637</sup>

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

LABORATORY: CAT

JOB NUMBER: 241.082.02.001

NAME / LOCATION: 241.082.02.001

PROJECT MANAGER: W. Mast

SAMPLERS: J. Mast

RECORDER: J. Mast

	DATE				SAMPLE NUMBER / DESIGNATION
	YR	MO	DY	TIME	
13	11	03	15	13:10	13-37-2.5
14				13:20	13-38-2.5
15				13:40	13-39-2.5
16				13:45	13-39-2.5
17				13:50	13-39-2.5
18				14:15	13-39-2.5
19				14:20	13-39-2.5
20				14:25	13-39-2.5
21				14:30	13-39-2.5
22				14:35	13-39-2.5
23				14:40	13-39-2.5
24				14:45	13-39-2.5

MATRIX	# of Containers & Preservatives								DEPTH IN FEET	
	Vapor	Water	Soil	Sediment	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>		HCl
					1				1	2
										4
										2

ANALYSIS REQUESTED										
EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MNA Parameters (see notes)			
			X			X				

NOTES
Turn Around Time: <u>1 week</u>
<u>13-37-2.5</u>
<u>13-38-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>
<u>13-39-2.5</u>

CHAIN OF CUSTODY RECORD					
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
<u>[Signature]</u>	<u>[Signature]</u>		<u>3/15/11</u>	<u>16:50</u>	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)		DATE TIME
METHOD OF SHIPMENT:					

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# CHAIN OF CUSTODY RECORD

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

226637

LABORATORY: C-T  
JOB NUMBER: 241.032.02.001  
NAME / LOCATION: 24<sup>th</sup> and Chestnut / Fremontville, CA  
PROJECT MANAGER: W. Mag+

SAMPLERS: K. S. ... / U. ...  
RECORDER: K. ...

### ANALYSIS REQUESTED

DATE				SAMPLE NUMBER / DESIGNATION
YR	MO	DY	TIME	
25	11	03	15:35	18-23-271
26	↓	↓	↓	1540
27	↓	↓	↓	1545

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

ANALYSIS REQUESTED											
EPA 5035/8010	EPA 5035/8021	EPA 5035/8260B - VOCs	TPH by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C - SVOCs	MNA Parameters (see notes)				
		X	X	X				X			
		X	X	X							

**NOTES**  
Turn Around Time: ...  
...

CHAIN OF CUSTODY RECORD					
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
<i>[Signature]</i>	<i>[Signature]</i>		11/16/00	16:30	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)		DATE TIME
METHOD OF SHIPMENT:					

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**Gasoline by GC/FID (5035 Prep)**

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	03/15/11
Basis:	as received	Received:	03/15/11

Field ID:	SB-41-2.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-001		

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Field ID:	SB-41-6.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-002		

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

Field ID:	SB-41-12.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-003		

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	67-140

Field ID:	SB-15-2.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-004		

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

**Gasoline by GC/FID (5035 Prep)**

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	03/15/11
Basis:	as received	Received:	03/15/11

Field ID:	SB-15-4.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-005		

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Field ID:	SB-15-12.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-006		

Analyte	Result	RL
Gasoline C7-C12	0.28 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

Field ID:	SB-40-2.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-007		

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

Field ID:	SB-40-7.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-008		

Analyte	Result	RL
Gasoline C7-C12	0.19 Y	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit



Gasoline by GC/FID (5035 Prep)		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Diln Fac: 1.000
Units:	mg/Kg	Sampled: 03/15/11
Basis:	as received	Received: 03/15/11

Field ID:	SB-40-12.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-009		

Analyte	Result	RL
Gasoline C7-C12	0.19 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	67-140

Field ID:	SB-14-2.5	Batch#:	172872
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-010		

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	67-140

Field ID:	SB-37-2.5	Batch#:	172895
Type:	SAMPLE	Analyzed:	03/17/11
Lab ID:	226637-011		

Analyte	Result	RL
Gasoline C7-C12	0.17 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	67-140

Field ID:	SB-37-7.5	Batch#:	172895
Type:	SAMPLE	Analyzed:	03/17/11
Lab ID:	226637-012		

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	67-140

\*= Value outside of QC limits; see narrative  
Y= Sample exhibits chromatographic pattern which does not resemble standard  
ND= Not Detected  
RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Diln Fac: 1.000
Units:	mg/Kg	Sampled: 03/15/11
Basis:	as received	Received: 03/15/11

Field ID: SB-37-12.5                      Batch#: 172895  
 Type: SAMPLE                              Analyzed: 03/17/11  
 Lab ID: 226637-013

Analyte	Result	RL
Gasoline C7-C12	ND	0.15
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	67-140

Field ID: SB-14-7.5                      Batch#: 172895  
 Type: SAMPLE                              Analyzed: 03/17/11  
 Lab ID: 226637-014

Analyte	Result	RL
Gasoline C7-C12	ND	0.17
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	67-140

Field ID: SB-36-2.5                      Batch#: 172895  
 Type: SAMPLE                              Analyzed: 03/17/11  
 Lab ID: 226637-015

Analyte	Result	RL
Gasoline C7-C12	ND	0.16
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	67-140

Field ID: SB-36-6.5                      Batch#: 172895  
 Type: SAMPLE                              Analyzed: 03/18/11  
 Lab ID: 226637-016

Analyte	Result	RL
Gasoline C7-C12	ND	0.19
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Diln Fac: 1.000
Units:	mg/Kg	Sampled: 03/15/11
Basis:	as received	Received: 03/15/11

Field ID: SB-36-12.5      Batch#: 172895  
 Type: SAMPLE      Analyzed: 03/17/11  
 Lab ID: 226637-017

Analyte	Result	RL
Gasoline C7-C12	1.8 Y	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	141 *	67-140

Field ID: SB-10-2.5      Batch#: 172895  
 Type: SAMPLE      Analyzed: 03/17/11  
 Lab ID: 226637-018

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	67-140

Field ID: SB-10-5.5      Batch#: 172895  
 Type: SAMPLE      Analyzed: 03/18/11  
 Lab ID: 226637-019

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	67-140

Field ID: SB-10-12.5      Batch#: 172895  
 Type: SAMPLE      Analyzed: 03/18/11  
 Lab ID: 226637-020

Analyte	Result	RL
Gasoline C7-C12	0.75 Y	0.23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	132	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

**Gasoline by GC/FID (5035 Prep)**

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	03/15/11
Basis:	as received	Received:	03/15/11

Field ID:	SB-13-2.5	Batch#:	172895
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-021		

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	67-140

Field ID:	SB-39-2.5	Batch#:	172895
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-022		

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	67-140

Field ID:	SB-39-5.0	Batch#:	172895
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-023		

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	67-140

Field ID:	SB-39-12.5	Batch#:	172895
Type:	SAMPLE	Analyzed:	03/18/11
Lab ID:	226637-024		

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Diln Fac: 1.000
Units:	mg/Kg	Sampled: 03/15/11
Basis:	as received	Received: 03/15/11

Field ID: SB-38-2.5                      Batch#: 172895  
 Type: SAMPLE                              Analyzed: 03/18/11  
 Lab ID: 226637-025

Analyte	Result	RL
Gasoline C7-C12	ND	0.16
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Field ID: SB-38-7.5                      Batch#: 172895  
 Type: SAMPLE                              Analyzed: 03/18/11  
 Lab ID: 226637-026

Analyte	Result	RL
Gasoline C7-C12	ND	0.18
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	67-140

Field ID: SB-38-12.5                      Batch#: 172895  
 Type: SAMPLE                              Analyzed: 03/18/11  
 Lab ID: 226637-027

Analyte	Result	RL
Gasoline C7-C12	0.55 Y	0.19
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	128	67-140

Type: BLANK                                      Batch#: 172872  
 Lab ID: QC584195                              Analyzed: 03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.20
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

**Gasoline by GC/FID (5035 Prep)**

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	03/15/11
Basis:	as received	Received:	03/15/11

Type:	BLANK	Batch#:	172895
Lab ID:	QC584290	Analyzed:	03/17/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584194	Batch#: 172872
Matrix:	Soil	Analyzed: 03/17/11
Units:	mg/Kg	

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.038	104	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Batch QC Report

Gasoline by GC/FID (5035 Prep)					
Lab #:	226637	Location:	64th & Christie Emeryville, CA		
Client:	PES Environmental, Inc.	Prep:	EPA 5030B		
Project#:	241.082.02.001	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000		
MSS Lab ID:	226692-001	Batch#:	172872		
Matrix:	Soil	Sampled:	03/17/11		
Units:	mg/Kg	Received:	03/17/11		
Basis:	as received	Analyzed:	03/17/11		

Type: MS Lab ID: QC584255

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.08917	9.615	6.370	65	41-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Type: MSD Lab ID: QC584256

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.709	6.308	64	41-120	2	47

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	67-140

RPD= Relative Percent Difference



Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172895
Units:	mg/Kg	Analyzed: 03/17/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584288

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.082	108	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Type: BSD Lab ID: QC584289

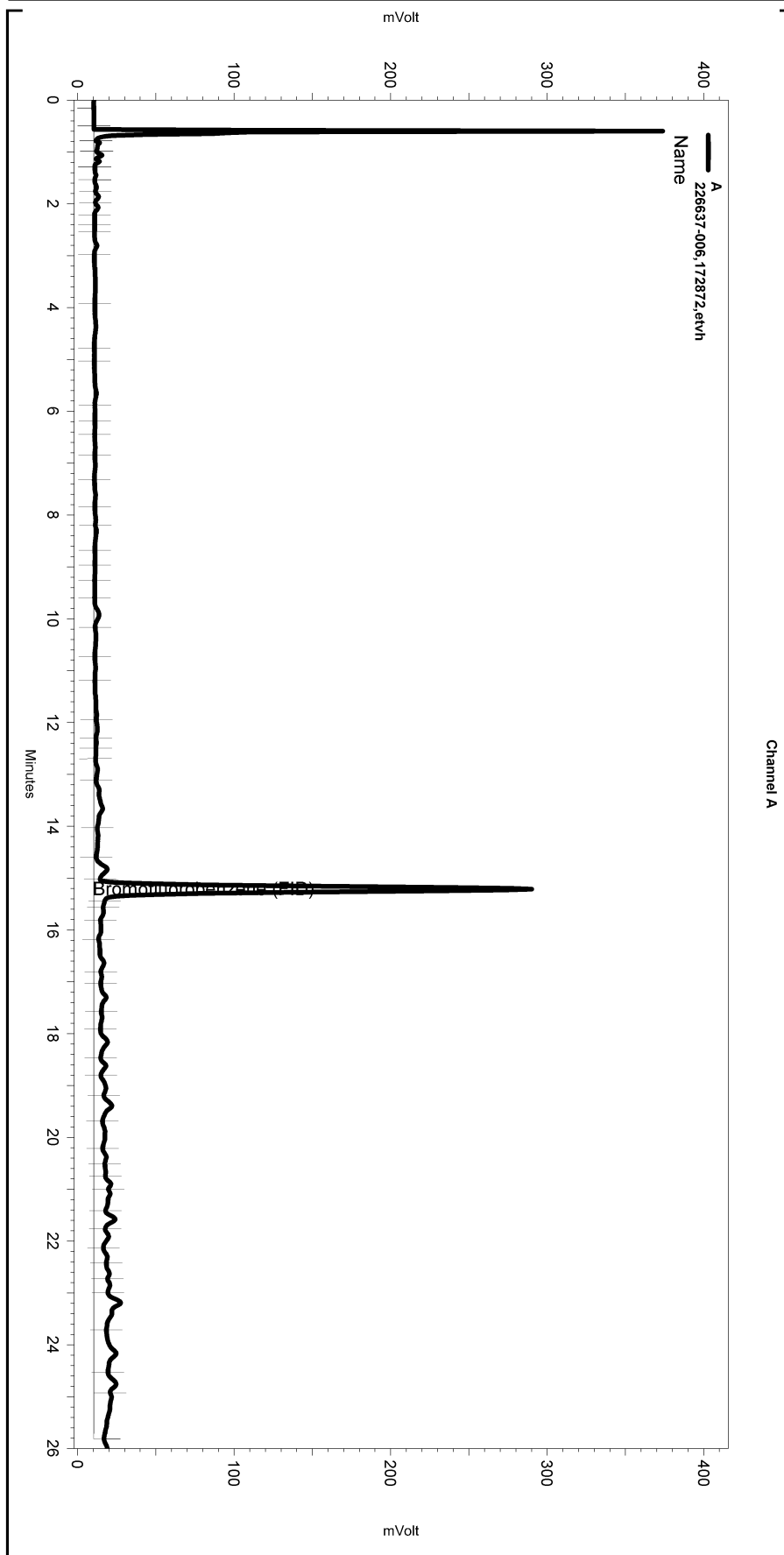
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.015	101	79-121	6	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	67-140

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\076.seq  
 Sample Name: 226637-006,172872,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\076-027  
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\lvhbtxe074.met

Software Version 3.1.7  
 Run Date: 3/18/2011 5:24:53 AM  
 Analysis Date: 3/18/2011 1:22:58 PM  
 Sample Amount: 6.45 Multiplier: 6.45  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

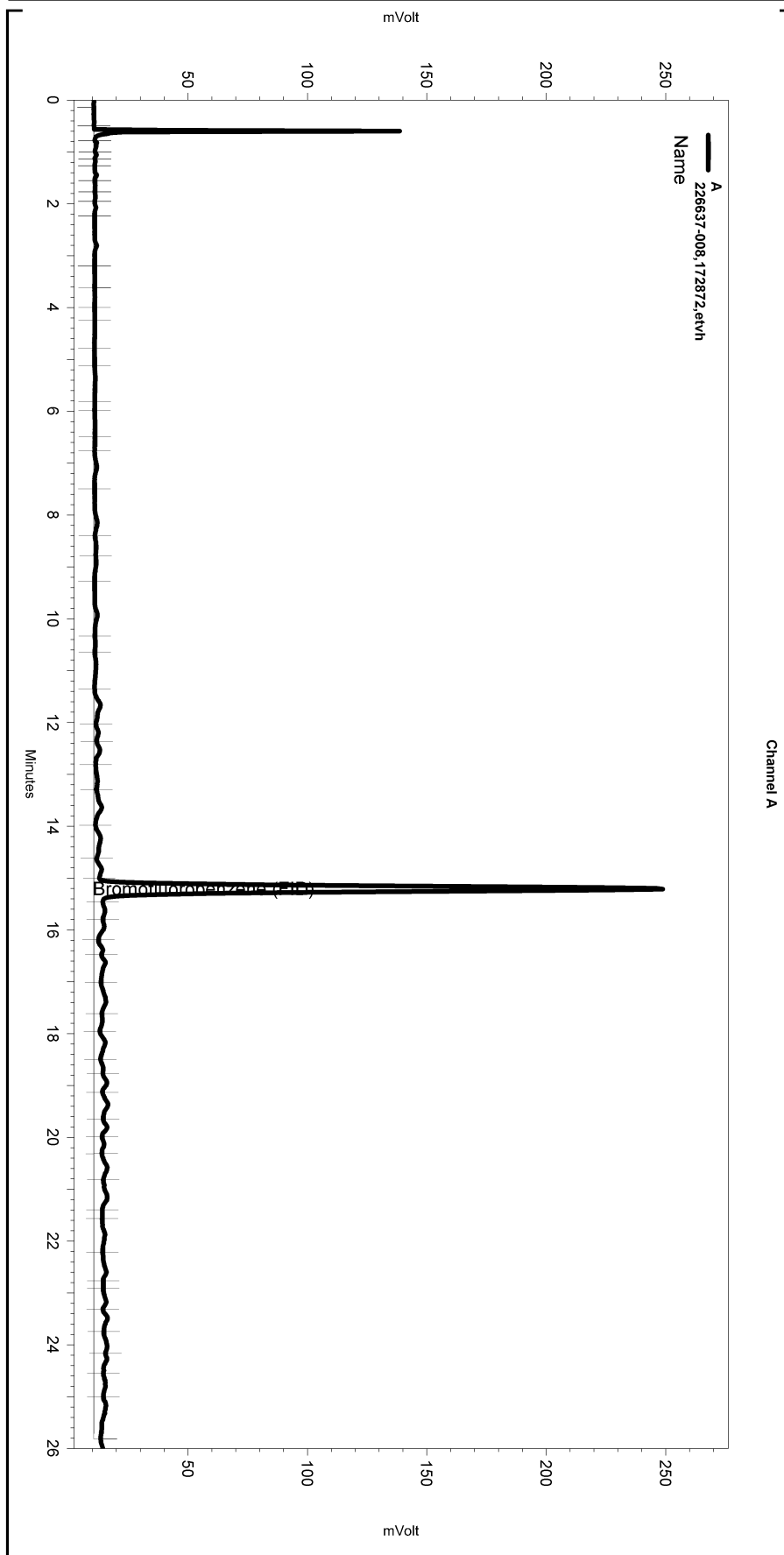
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\076-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.313	25.955	0
Yes	Split Peak	15.448	0	0

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 Sample Name: 226637-008,172872,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\076-029  
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\TVHBTXE074.met

Software Version 3.1.7  
 Run Date: 3/18/2011 6:41:56 AM  
 Analysis Date: 3/18/2011 1:24:06 PM  
 Sample Amount: 5.73 Multiplier: 5.73  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

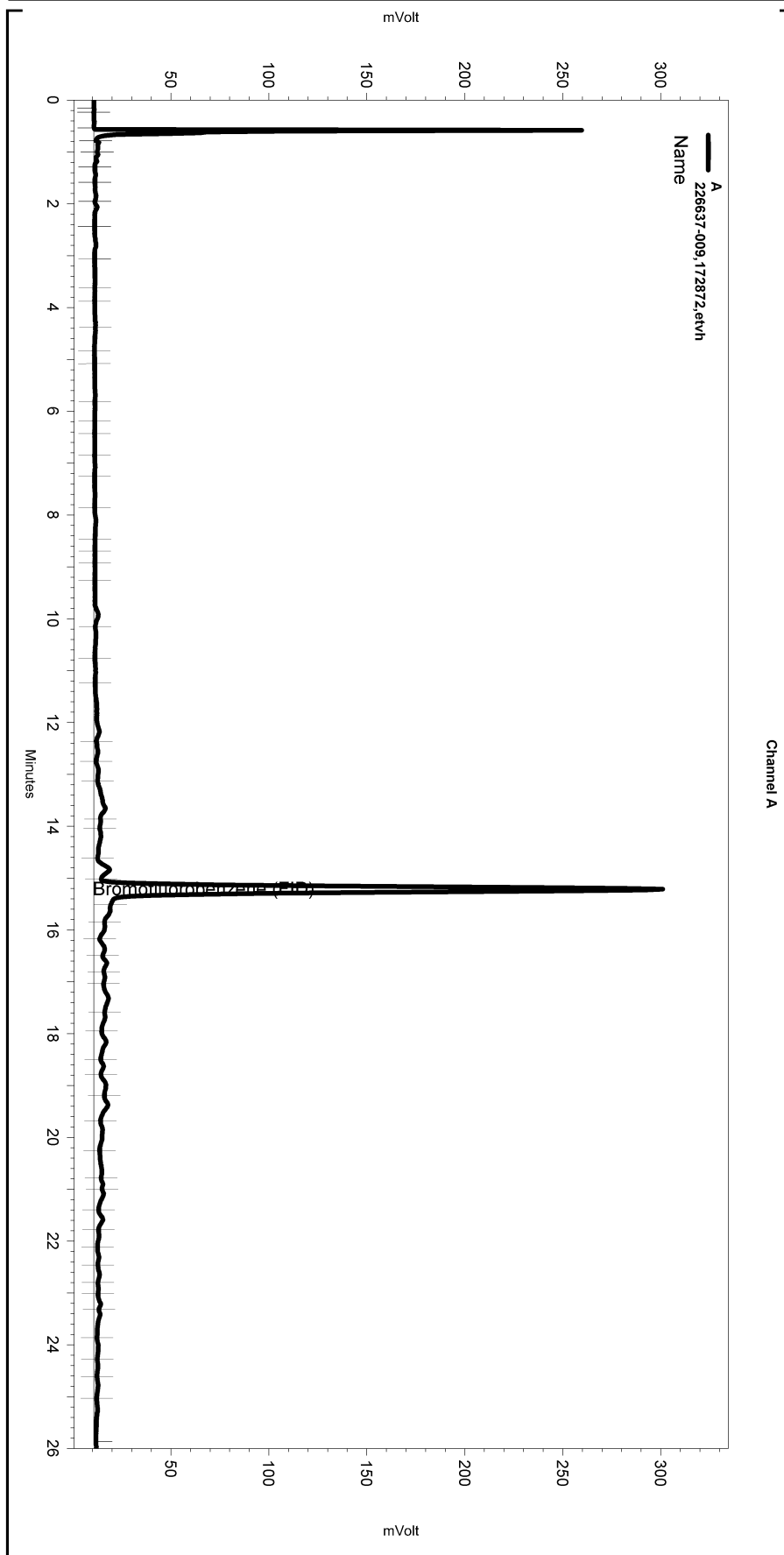
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\076-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.179	25.886	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\076.seq  
 Sample Name: 226637-009,172872,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\076-030  
 Instrument: GC07 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\lvhbtxe074.met

Software Version 3.1.7  
 Run Date: 3/18/2011 7:20:25 AM  
 Analysis Date: 3/18/2011 1:26:52 PM  
 Sample Amount: 6.39 Multiplier: 6.39  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

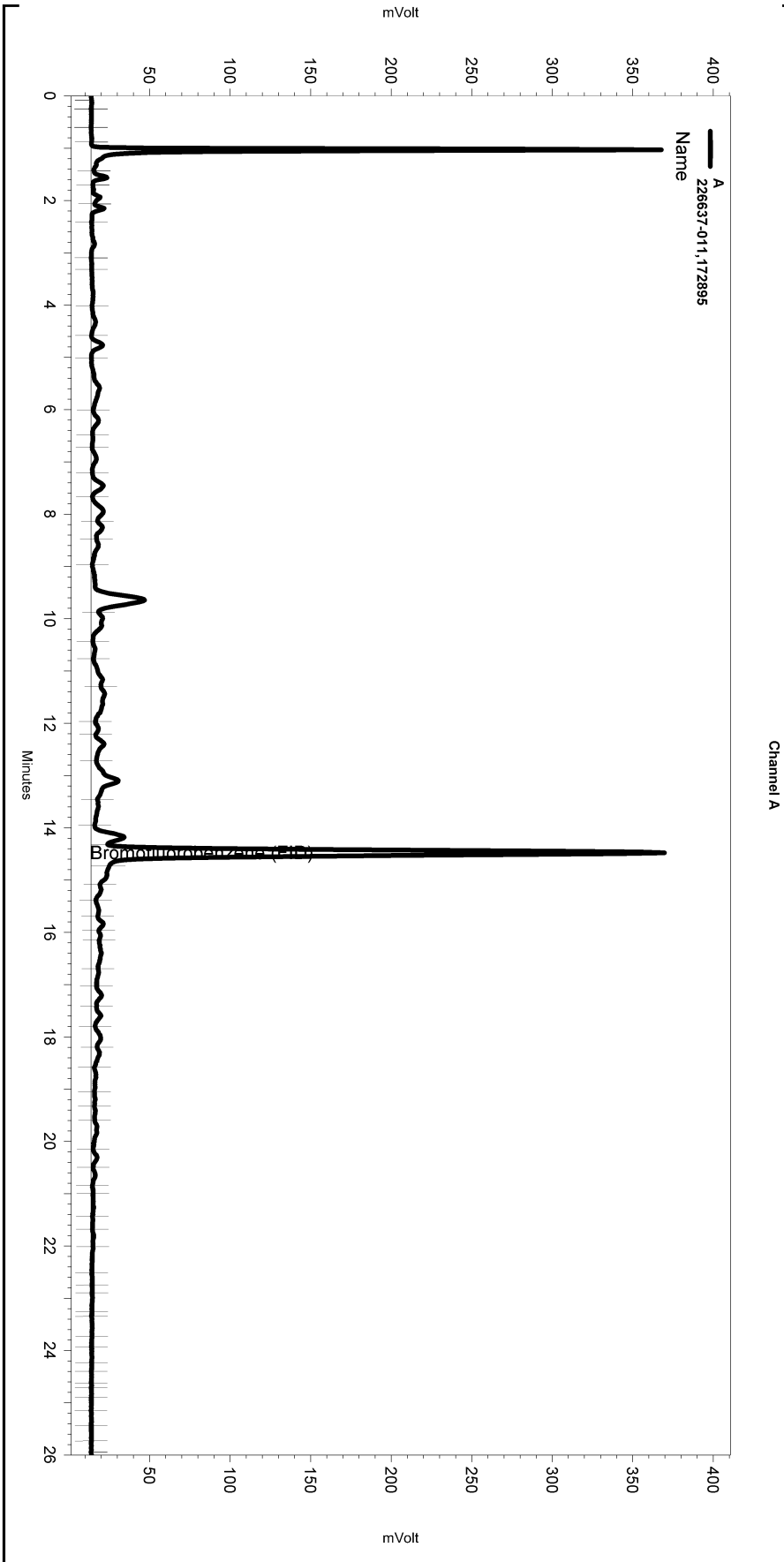
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\076-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.179	25.886	0
Yes	Split Peak	15.512	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\076.seq  
 Sample Name: 226637-011,172895  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\076-004  
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/17/2011 7:21:38 PM  
 Analysis Date: 3/18/2011 2:42:40 PM  
 Sample Amount: 6.12 Multiplier: 6.12  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

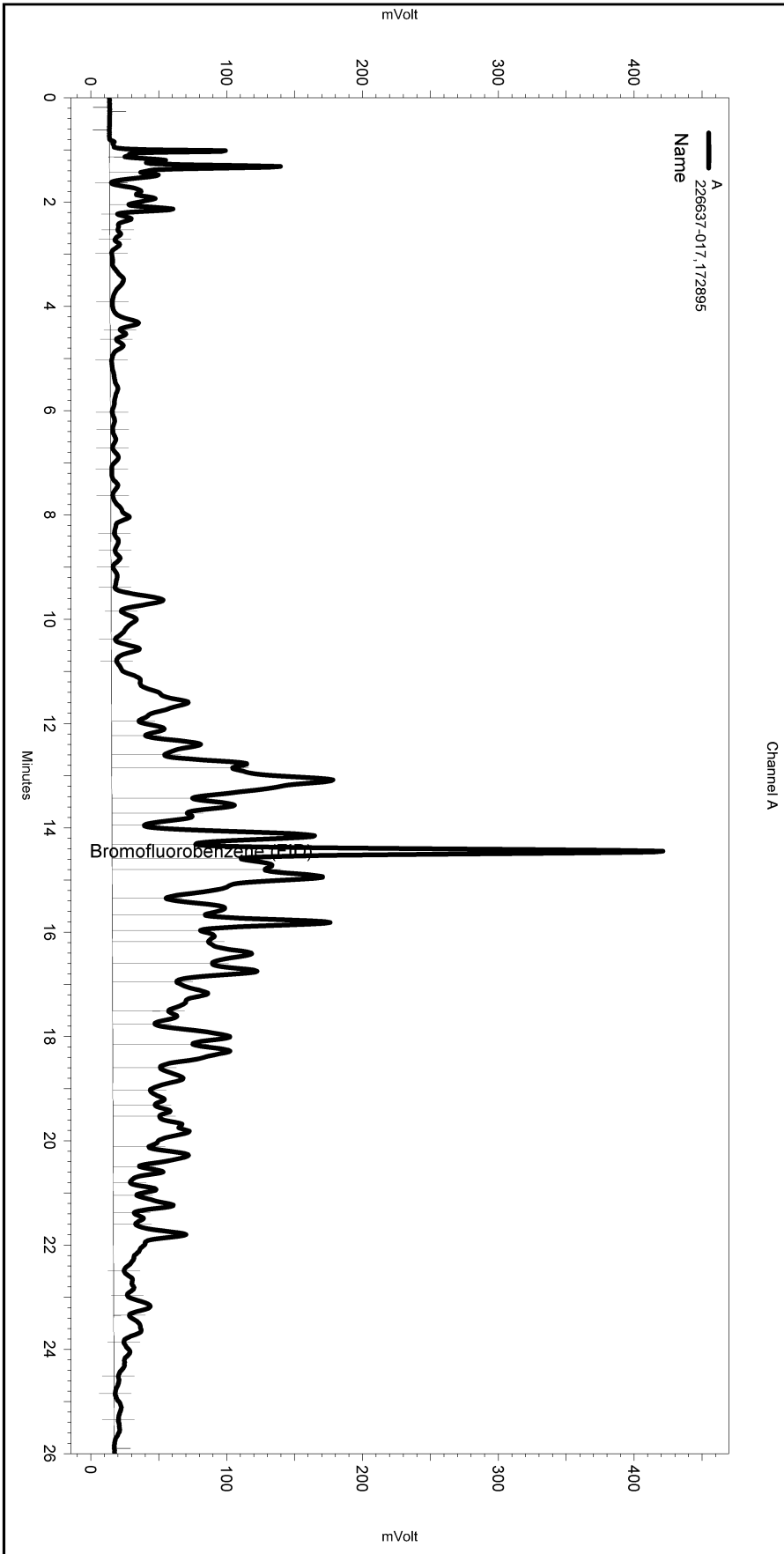
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\076-004

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	14.736	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\076.seq  
 Sample Name: 226637-017,172895  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\076-010  
 Instrument: GC04 Vial: N/A Operator: lims2k3\lvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/17/2011 11:10:45 PM  
 Analysis Date: 3/17/2011 11:40:12 PM  
 Sample Amount: 5.11 Multiplier: 5.11  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

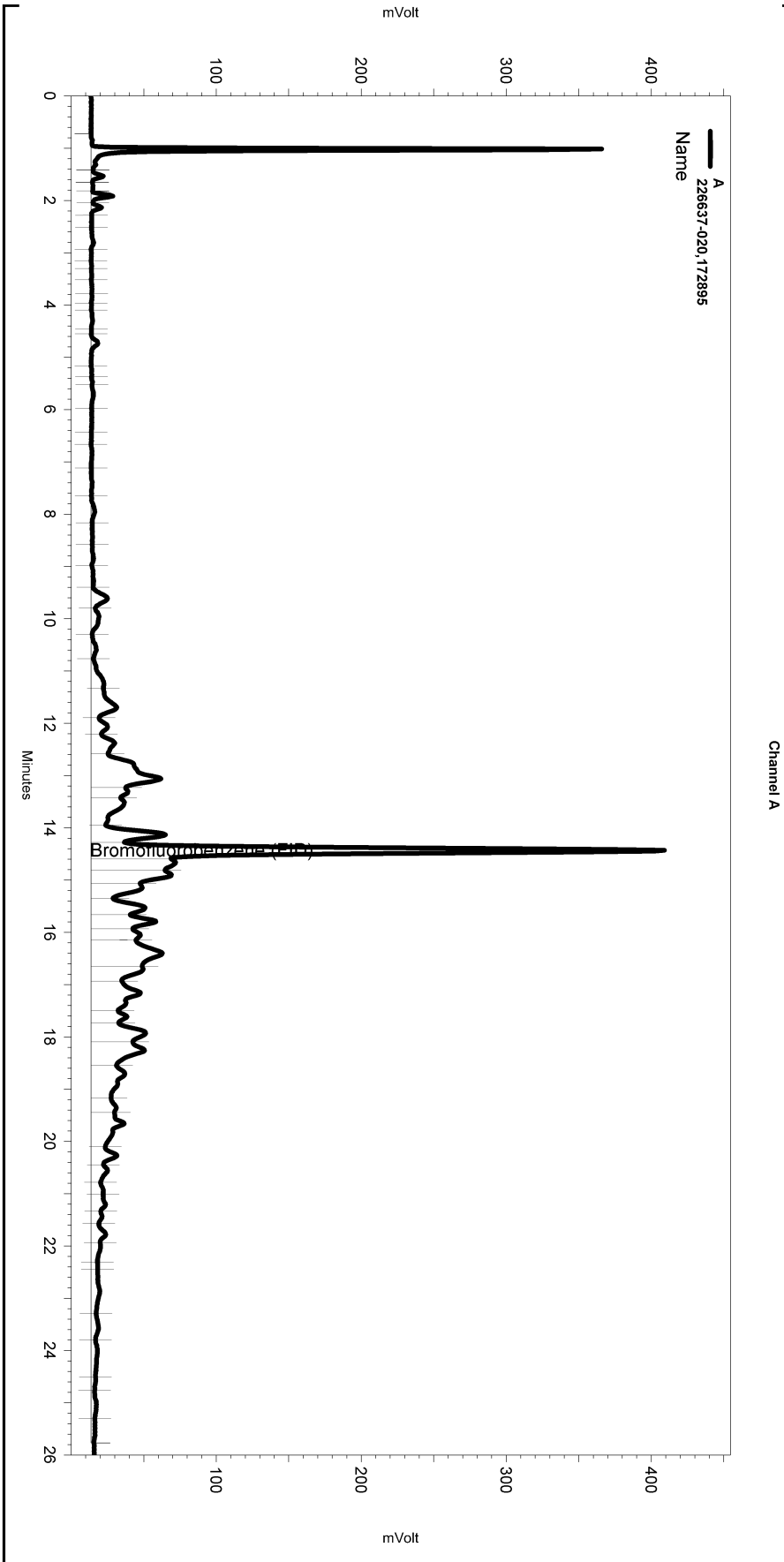
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\076-010\_82B5.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\076.seq  
 Sample Name: 226637-020,172895  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\076-026  
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/18/2011 12:05:27 PM  
 Analysis Date: 3/18/2011 3:15:56 PM  
 Sample Amount: 4.4 Multiplier: 4.4  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

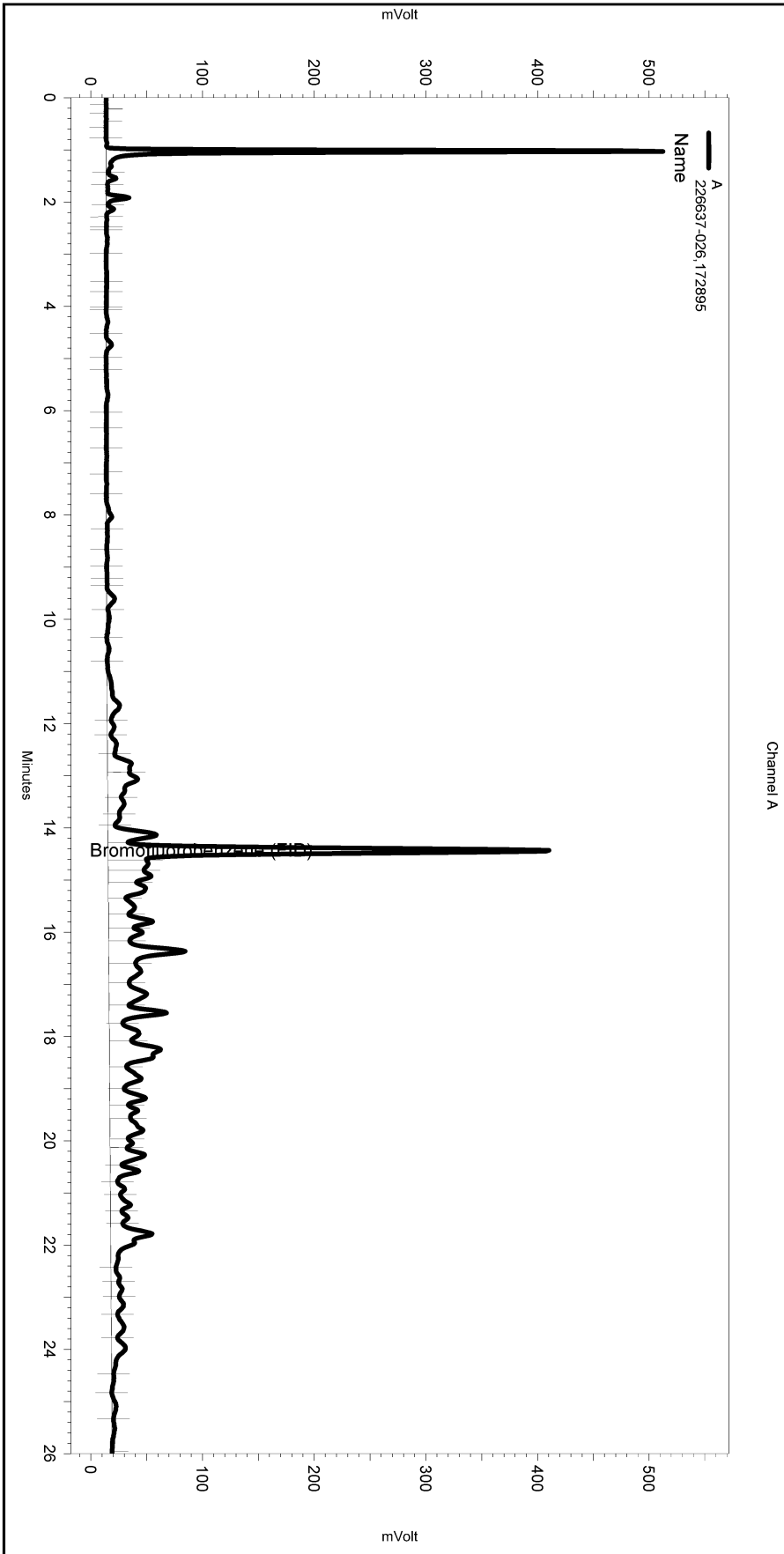
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\076-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.85	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\076.seq  
 Sample Name: 226637-026,172895  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\076-027  
 Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\TVHBTXE061.met

Software Version 3.1.7  
 Run Date: 3/18/2011 12:42:59 PM  
 Analysis Date: 3/18/2011 1:12:29 PM  
 Sample Amount: 5.34 Multiplier: 5.34  
 Vial & pH or Core ID: c



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

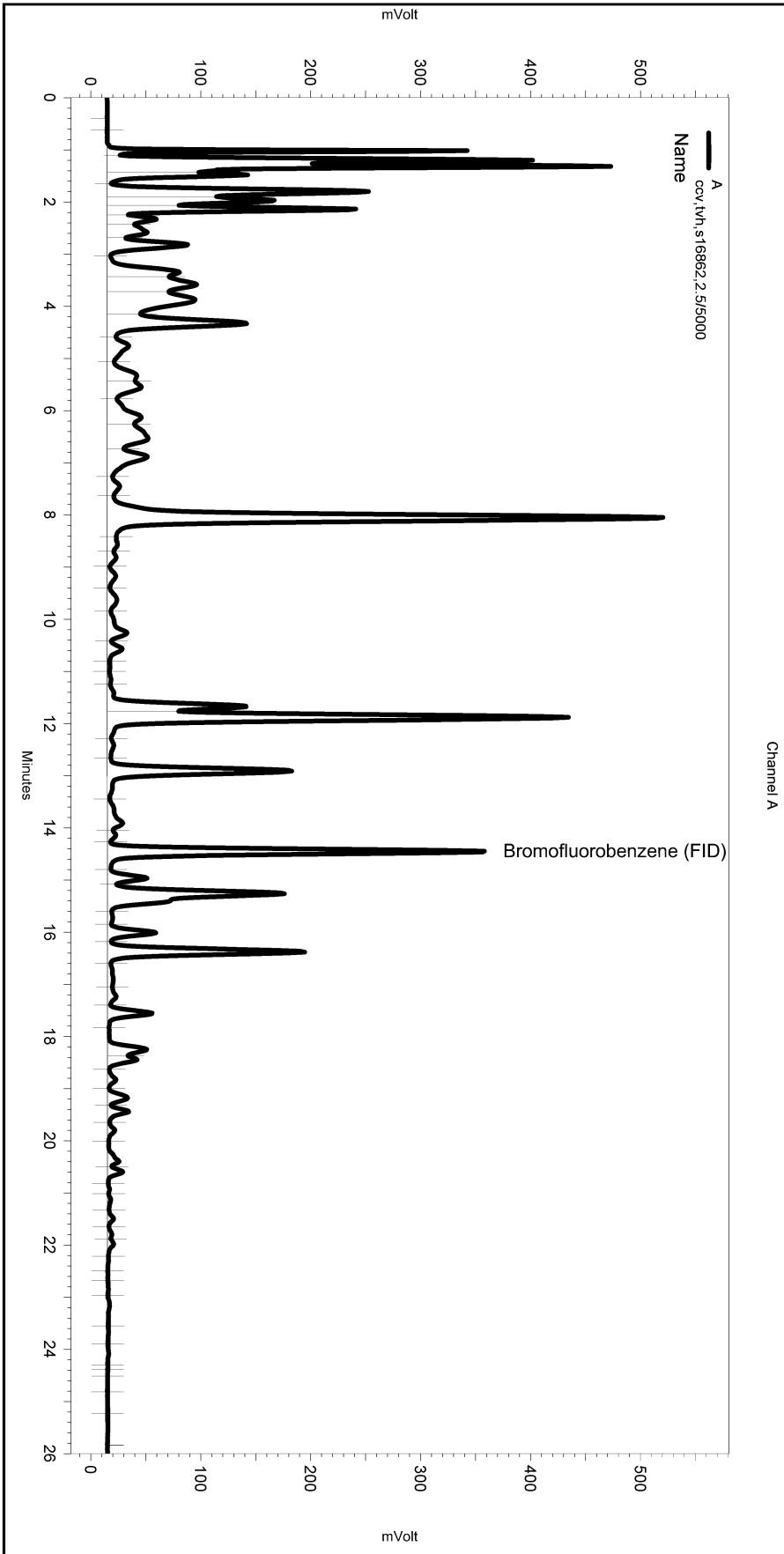
Data File: C:\Documents and Settings\All Users\Application  
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 Data\Instrument.10047\076-027\_82C7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\076.seq  
 Sample Name: ccv,tvh,s16862,2.5/5000  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\076-001  
 Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/17/2011 10:53:54 AM  
 Analysis Date: 3/17/2011 11:23:23 AM  
 Sample Amount: 5 Multiplier: 5  
 Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\076-001\_82AC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/15/11
Units:	mg/Kg	Received: 03/15/11
Basis:	as received	

Field ID:	SB-41-2.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-001	Prep:	SHAKER TABLE
Diln Fac:	20.00	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	110 Y	20
Motor Oil C24-C36	590	100

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-41-6.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-002	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	86 Y	1.0
Motor Oil C24-C36	190	5.0

Surrogate	%REC	Limits
o-Terphenyl	73	52-130

Field ID:	SB-41-12.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-003	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	120 Y	10
Motor Oil C24-C36	340	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/15/11
Units:	mg/Kg	Received: 03/15/11
Basis:	as received	

Field ID:	SB-15-2.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-004	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	130 Y	10
Motor Oil C24-C36	600	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-15-4.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-005	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	230 Y	10
Motor Oil C24-C36	410	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-15-12.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/20/11
Lab ID:	226637-006	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	98 Y	1.0
Motor Oil C24-C36	210	5.0

Surrogate	%REC	Limits
o-Terphenyl	70	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis:	EPA 8015B
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11
Basis:	as received		

Field ID:	SB-40-2.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-007	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	25 Y	1.0
Motor Oil C24-C36	90	5.0

Surrogate	%REC	Limits
o-Terphenyl	76	52-130

Field ID:	SB-40-7.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-008	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	64 Y	1.0
Motor Oil C24-C36	89	5.0

Surrogate	%REC	Limits
o-Terphenyl	72	52-130

Field ID:	SB-40-12.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/20/11
Lab ID:	226637-009	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	47 Y	0.99
Motor Oil C24-C36	56	5.0

Surrogate	%REC	Limits
o-Terphenyl	80	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/15/11
Units:	mg/Kg	Received: 03/15/11
Basis:	as received	

Field ID:	SB-14-2.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-010	Prep:	SHAKER TABLE
Diln Fac:	20.00	Cleanup Method:	EPA 3630C
Batch#:	172914		

Analyte	Result	RL
Diesel C10-C24	230 Y	20
Motor Oil C24-C36	800	100

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-37-2.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226637-011	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	99 Y	5.0
Motor Oil C24-C36	480	25

Surrogate	%REC	Limits
o-Terphenyl	31 *	52-130

Field ID:	SB-37-7.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-012	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172943		

Analyte	Result	RL
Diesel C10-C24	2.0 Y	1.0
Motor Oil C24-C36	8.6	5.0

Surrogate	%REC	Limits
o-Terphenyl	103	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/15/11
Units:	mg/Kg	Received: 03/15/11
Basis:	as received	

Field ID: SB-37-12.5      Prepared: 03/18/11  
 Type: SAMPLE      Analyzed: 03/21/11  
 Lab ID: 226637-013      Prep: EPA 3550B  
 Diln Fac: 1.000      Cleanup Method: EPA 3630C  
 Batch#: 172943

Analyte	Result	RL
Diesel C10-C24	53 Y	1.0
Motor Oil C24-C36	130	5.0

Surrogate	%REC	Limits
o-Terphenyl	98	52-130

Field ID: SB-14-7.5      Prepared: 03/18/11  
 Type: SAMPLE      Analyzed: 03/21/11  
 Lab ID: 226637-014      Prep: EPA 3550B  
 Diln Fac: 5.000      Cleanup Method: EPA 3630C  
 Batch#: 172943

Analyte	Result	RL
Diesel C10-C24	150 Y	5.0
Motor Oil C24-C36	360	25

Surrogate	%REC	Limits
o-Terphenyl	74	52-130

Field ID: SB-36-2.5      Prepared: 03/18/11  
 Type: SAMPLE      Analyzed: 03/21/11  
 Lab ID: 226637-015      Prep: EPA 3550B  
 Diln Fac: 5.000      Cleanup Method: EPA 3630C  
 Batch#: 172943

Analyte	Result	RL
Diesel C10-C24	35 Y	5.0
Motor Oil C24-C36	160	25

Surrogate	%REC	Limits
o-Terphenyl	103	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/15/11
Units:	mg/Kg	Received: 03/15/11
Basis:	as received	

Field ID:	SB-36-6.5	Prepared:	03/18/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-016	Prep:	EPA 3550B
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172943		

Analyte	Result	RL
Diesel C10-C24	130 Y	5.0
Motor Oil C24-C36	290	25

Surrogate	%REC	Limits
o-Terphenyl	95	52-130

Field ID:	SB-36-12.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-017	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	180	1.0
Motor Oil C24-C36	260	5.0

Surrogate	%REC	Limits
o-Terphenyl	69	52-130

Field ID:	SB-10-2.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226637-018	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	210 Y	5.0
Motor Oil C24-C36	630	25

Surrogate	%REC	Limits
o-Terphenyl	59	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226637	Location: 64th & Christie Emeryville, CA	
Client:	PES Environmental, Inc.	Analysis: EPA 8015B	
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11
Basis:	as received		

Field ID:	SB-10-5.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-019	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	1.3 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	76	52-130

Field ID:	SB-10-12.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-020	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	24 Y	1.0
Motor Oil C24-C36	42	5.0

Surrogate	%REC	Limits
o-Terphenyl	79	52-130

Field ID:	SB-13-2.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226637-021	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	140 Y	5.0
Motor Oil C24-C36	410	25

Surrogate	%REC	Limits
o-Terphenyl	60	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit



Total Extractable Hydrocarbons			
Lab #:	226637	Location: 64th & Christie Emeryville, CA	
Client:	PES Environmental, Inc.	Analysis: EPA 8015B	
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11
Basis:	as received		

Field ID:	SB-39-2.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-022	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	26 Y	1.0
Motor Oil C24-C36	36	5.0

Surrogate	%REC	Limits
o-Terphenyl	73	52-130

Field ID:	SB-39-5.0	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-023	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	38 Y	0.99
Motor Oil C24-C36	69	5.0

Surrogate	%REC	Limits
o-Terphenyl	80	52-130

Field ID:	SB-39-12.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-024	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	3.8 Y	1.0
Motor Oil C24-C36	18	5.0

Surrogate	%REC	Limits
o-Terphenyl	64	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/15/11
Units:	mg/Kg	Received: 03/15/11
Basis:	as received	

Field ID:	SB-38-2.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-025	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	16 Y	1.0
Motor Oil C24-C36	55	5.0

Surrogate	%REC	Limits
o-Terphenyl	86	52-130

Field ID:	SB-38-7.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226637-026	Prep:	SHAKER TABLE
Diln Fac:	100.0	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	3,500 Y	400
Motor Oil C24-C36	18,000	2,000

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-38-12.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226637-027	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	33	1.0
Motor Oil C24-C36	50	5.0

Surrogate	%REC	Limits
o-Terphenyl	59	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/15/11
Units:	mg/Kg	Received: 03/15/11
Basis:	as received	

Type:	BLANK	Prepared:	03/18/11
Lab ID:	QC584370	Analyzed:	03/20/11
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	172914	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	66	52-130

Type:	BLANK	Prepared:	03/18/11
Lab ID:	QC584470	Analyzed:	03/21/11
Diln Fac:	1.000	Prep:	EPA 3550B
Batch#:	172943	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	94	52-130

Type:	BLANK	Prepared:	03/20/11
Lab ID:	QC584510	Analyzed:	03/21/11
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	172955	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	74	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584371	Batch#: 172914
Matrix:	Soil	Prepared: 03/18/11
Units:	mg/Kg	Analyzed: 03/20/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.91	36.69	74	44-151

Surrogate	%REC	Limits
o-Terphenyl	74	52-130

**Batch QC Report**

<b>Total Extractable Hydrocarbons</b>			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	SHAKER TABLE
Project#:	241.082.02.001	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	172914
MSS Lab ID:	226568-034	Sampled:	03/09/11
Matrix:	Soil	Received:	03/11/11
Units:	mg/Kg	Prepared:	03/18/11
Basis:	as received	Analyzed:	03/20/11
Diln Fac:	1.000		

Type: MS Lab ID: QC584372

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	4.392	49.72	46.03	84	39-146

Surrogate	%REC	Limits
o-Terphenyl	83	52-130

Type: MSD Lab ID: QC584373

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.91	33.28	58	39-146	32	61

Surrogate	%REC	Limits
o-Terphenyl	65	52-130

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584471	Batch#: 172943
Matrix:	Soil	Prepared: 03/18/11
Units:	mg/Kg	Analyzed: 03/21/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.30	45.35	90	44-151

Surrogate	%REC	Limits
o-Terphenyl	97	52-130

Batch QC Report

**Total Extractable Hydrocarbons**

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8015B
Field ID:	SB-36-6.5	Batch#:	172943
MSS Lab ID:	226637-016	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	mg/Kg	Prepared:	03/18/11
Basis:	as received	Analyzed:	03/21/11
Diln Fac:	5.000		

Type: MS Cleanup Method: EPA 3630C  
 Lab ID: QC584472

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	134.7	50.47	275.8	280 *	39-146

Surrogate	%REC	Limits
o-Terphenyl	113	52-130

Type: MSD Cleanup Method: EPA 3630C  
 Lab ID: QC584473

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.34	156.2	43	39-146	55	61

Surrogate	%REC	Limits
o-Terphenyl	73	52-130

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

## Batch QC Report

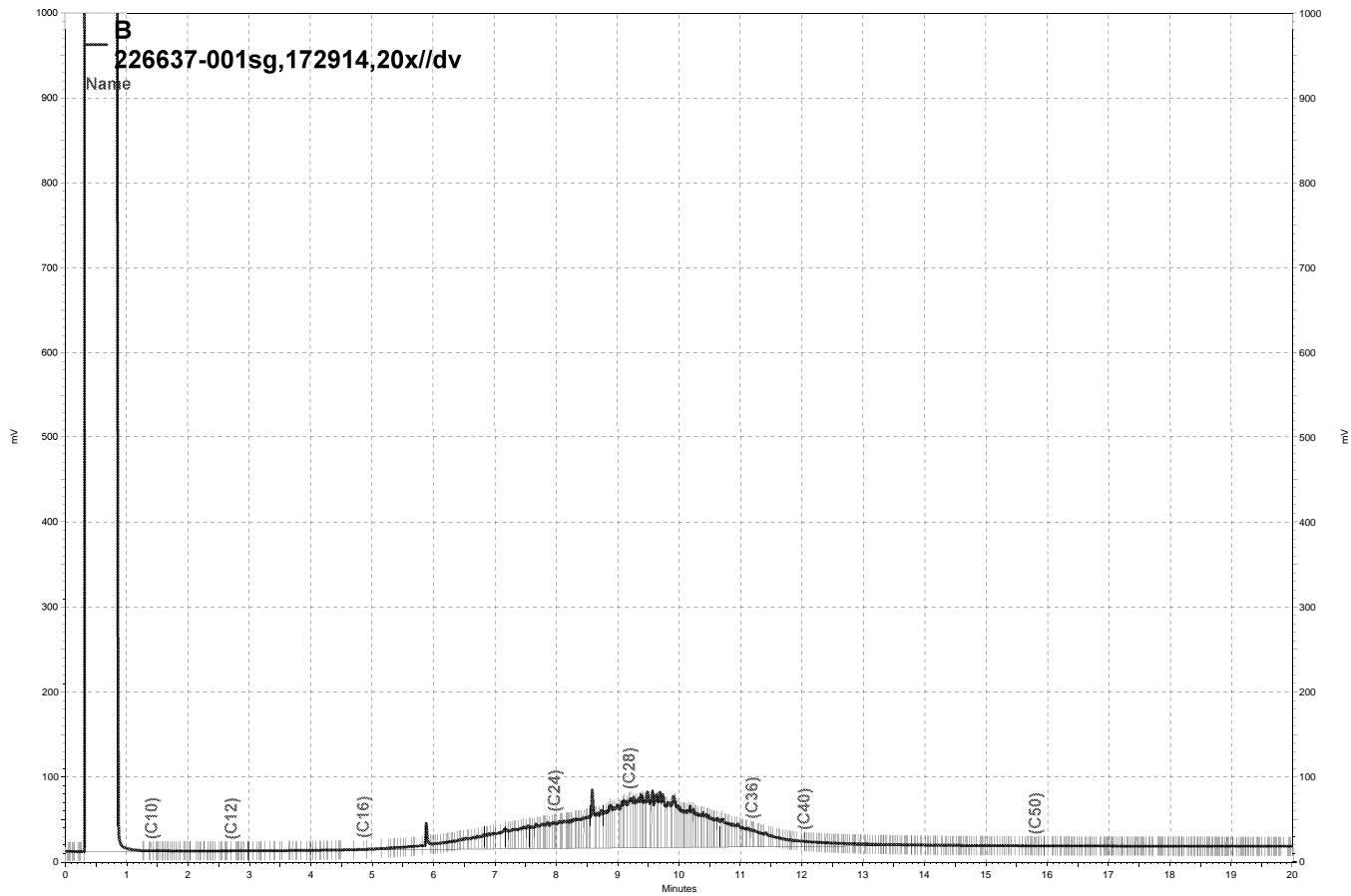
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Lab #:	226637	Location: 64th & Christie Emeryville, CA
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Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
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Matrix:	Soil	Prepared: 03/20/11
Units:	mg/Kg	Analyzed: 03/21/11

Cleanup Method: EPA 3630C

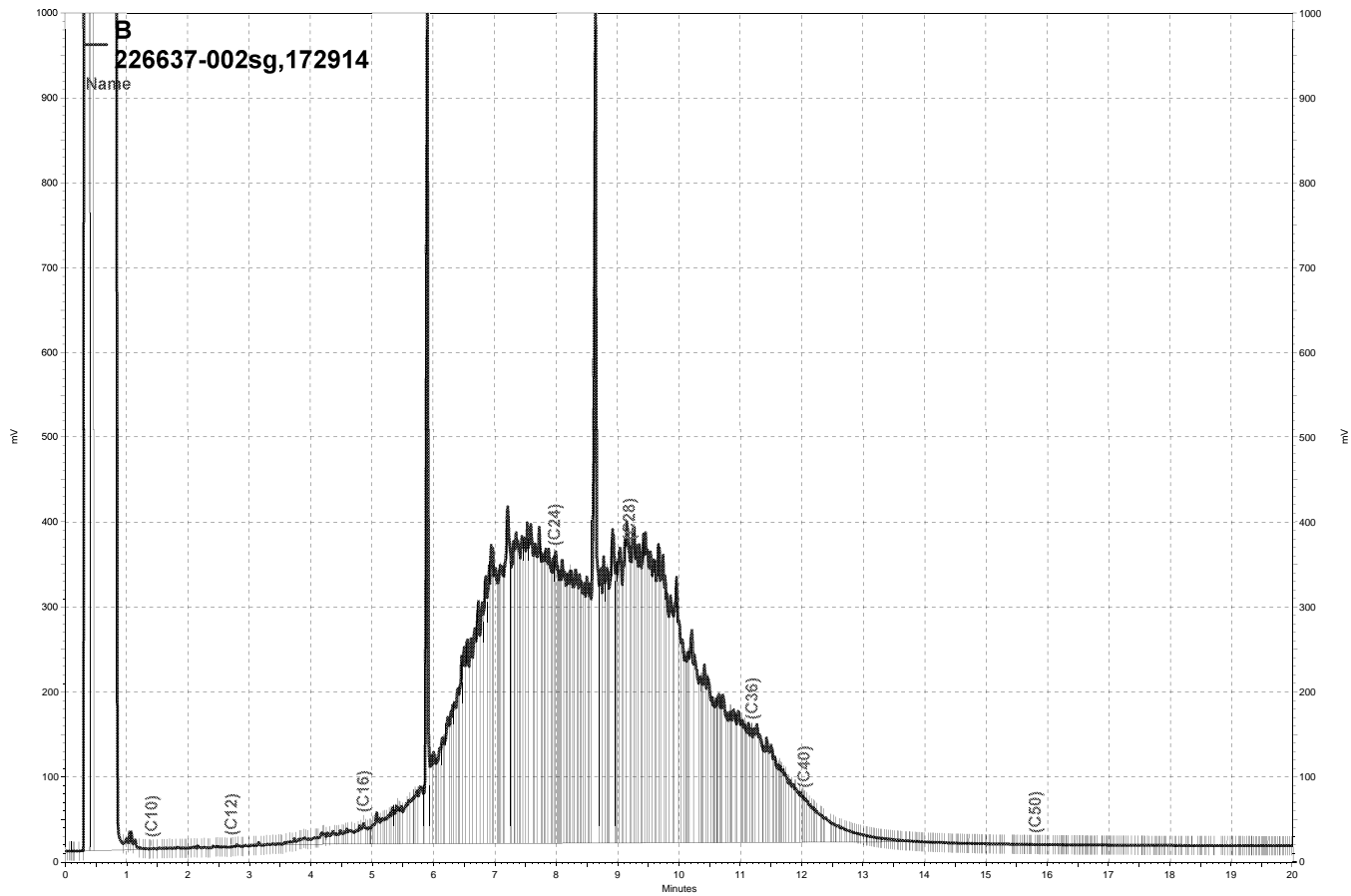
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Diesel C10-C24	49.82	40.21	81	44-151

Surrogate	%REC	Limits
o-Terphenyl	82	52-130

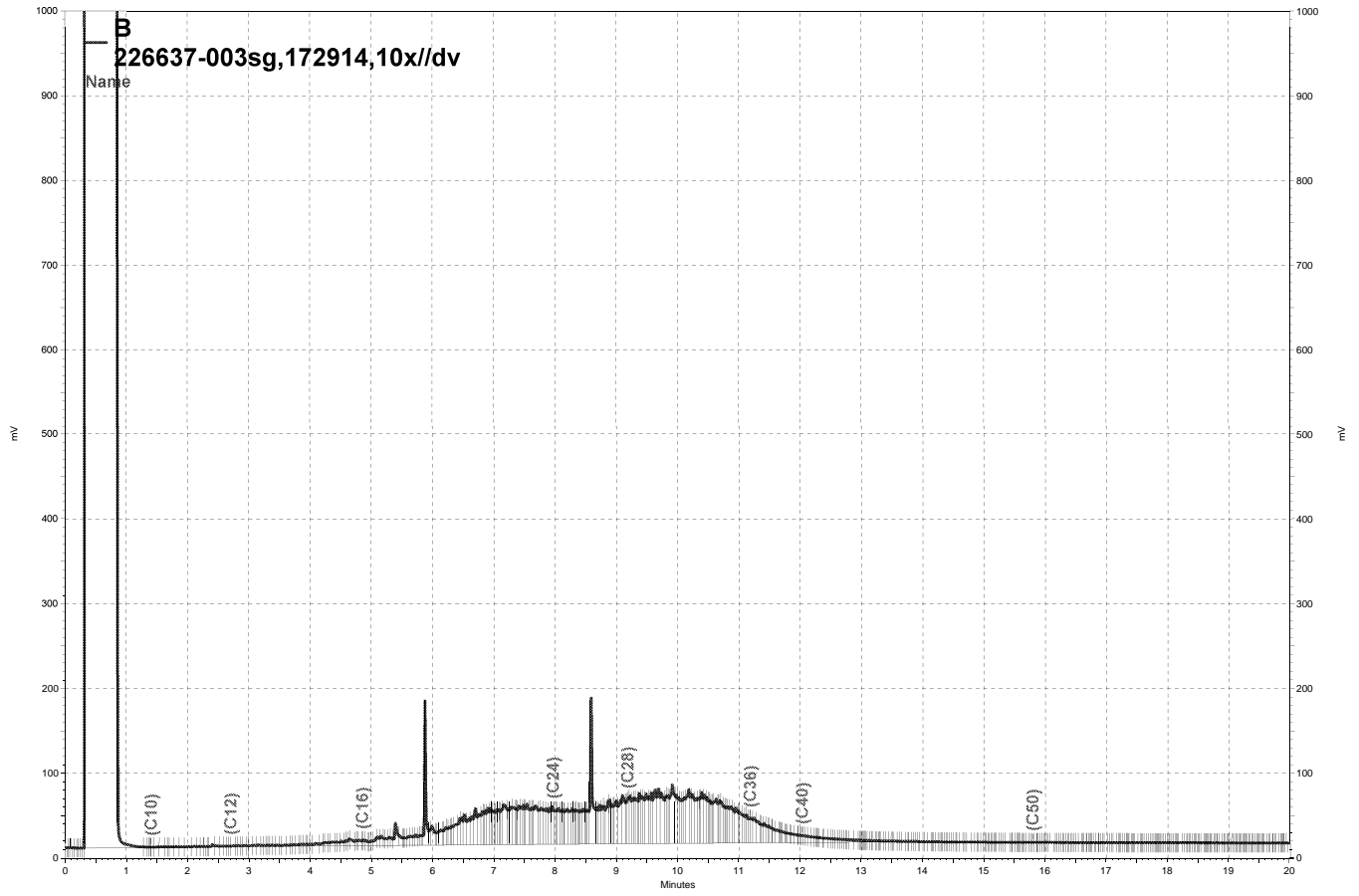




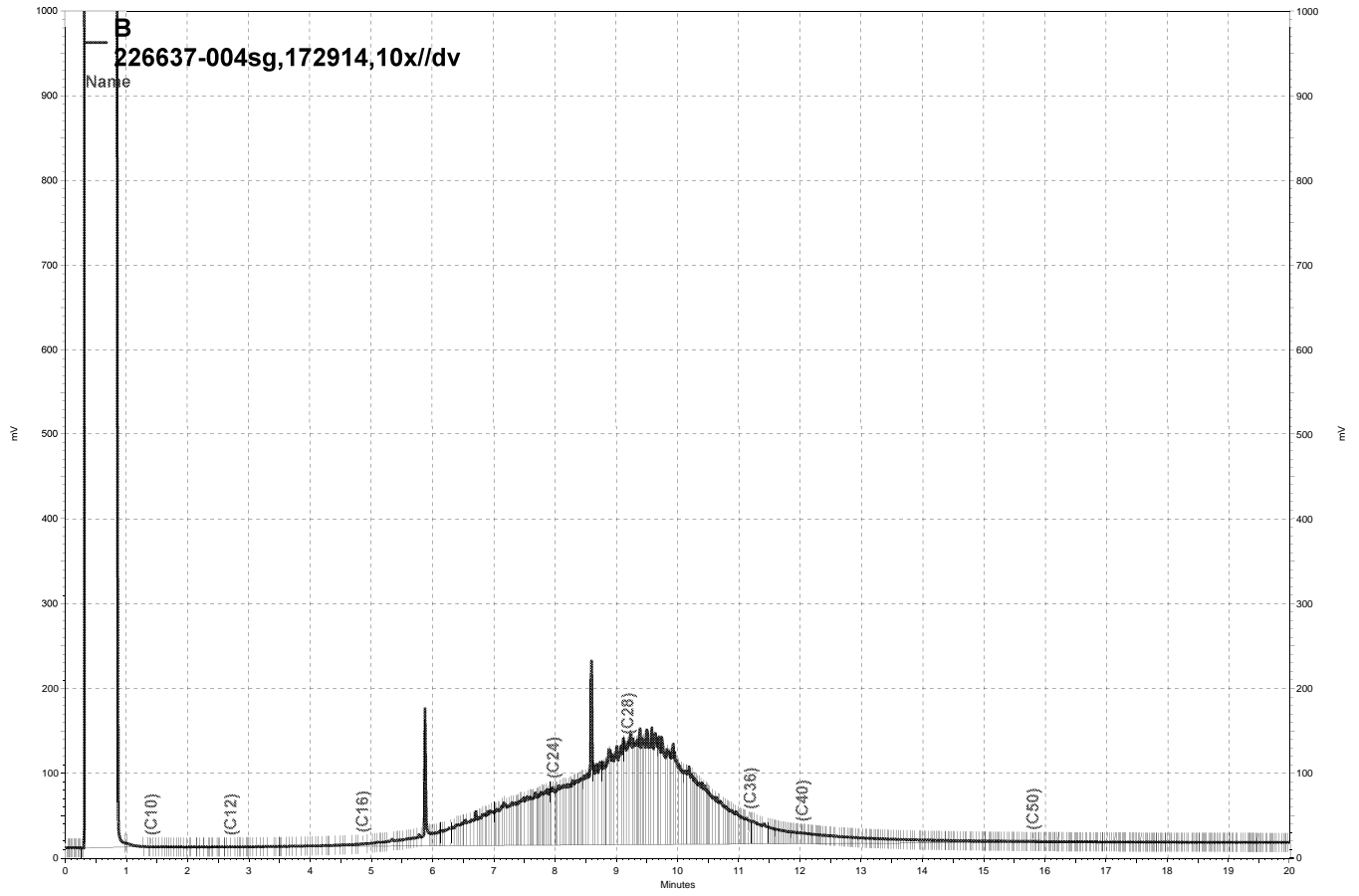
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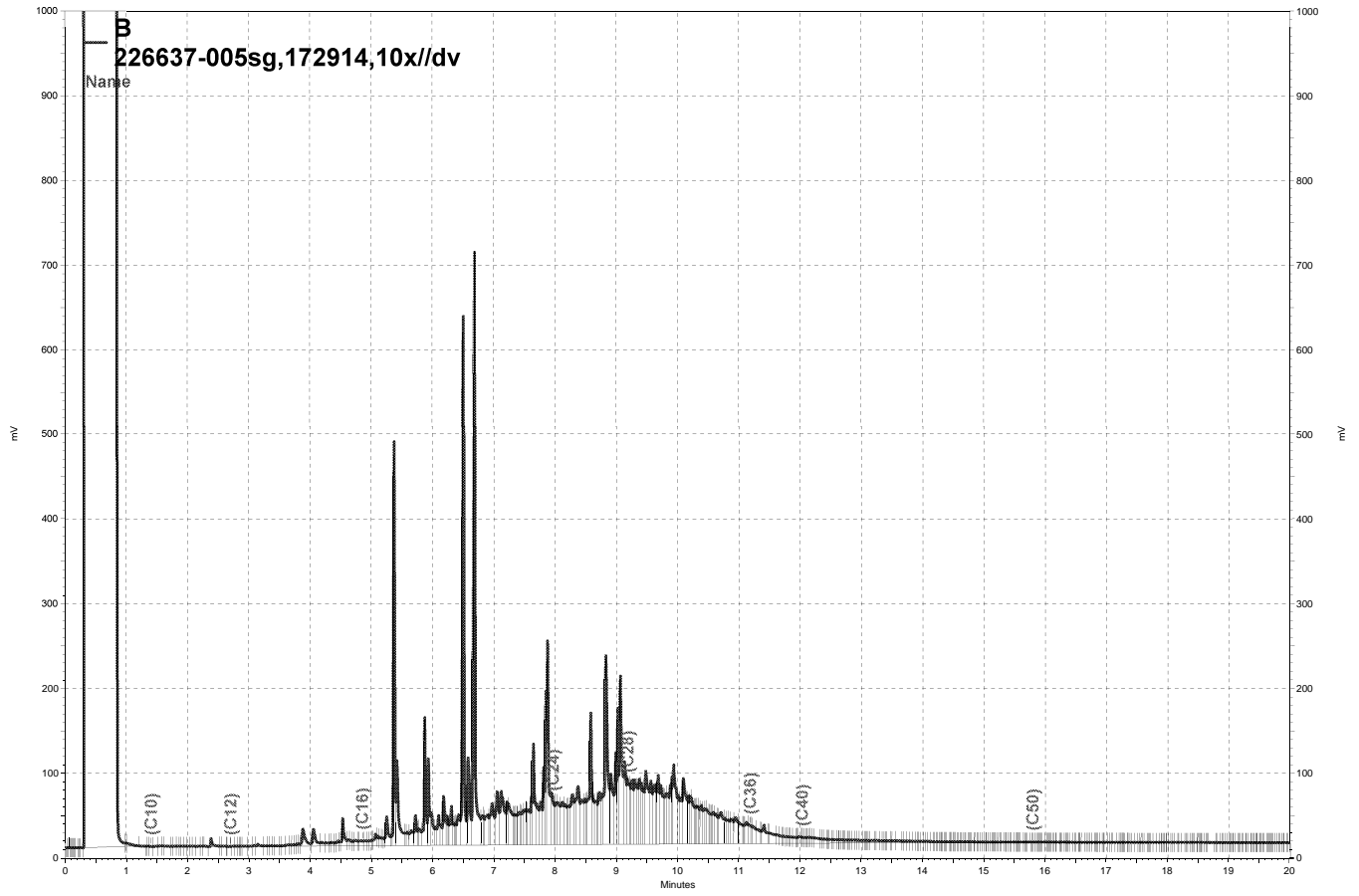
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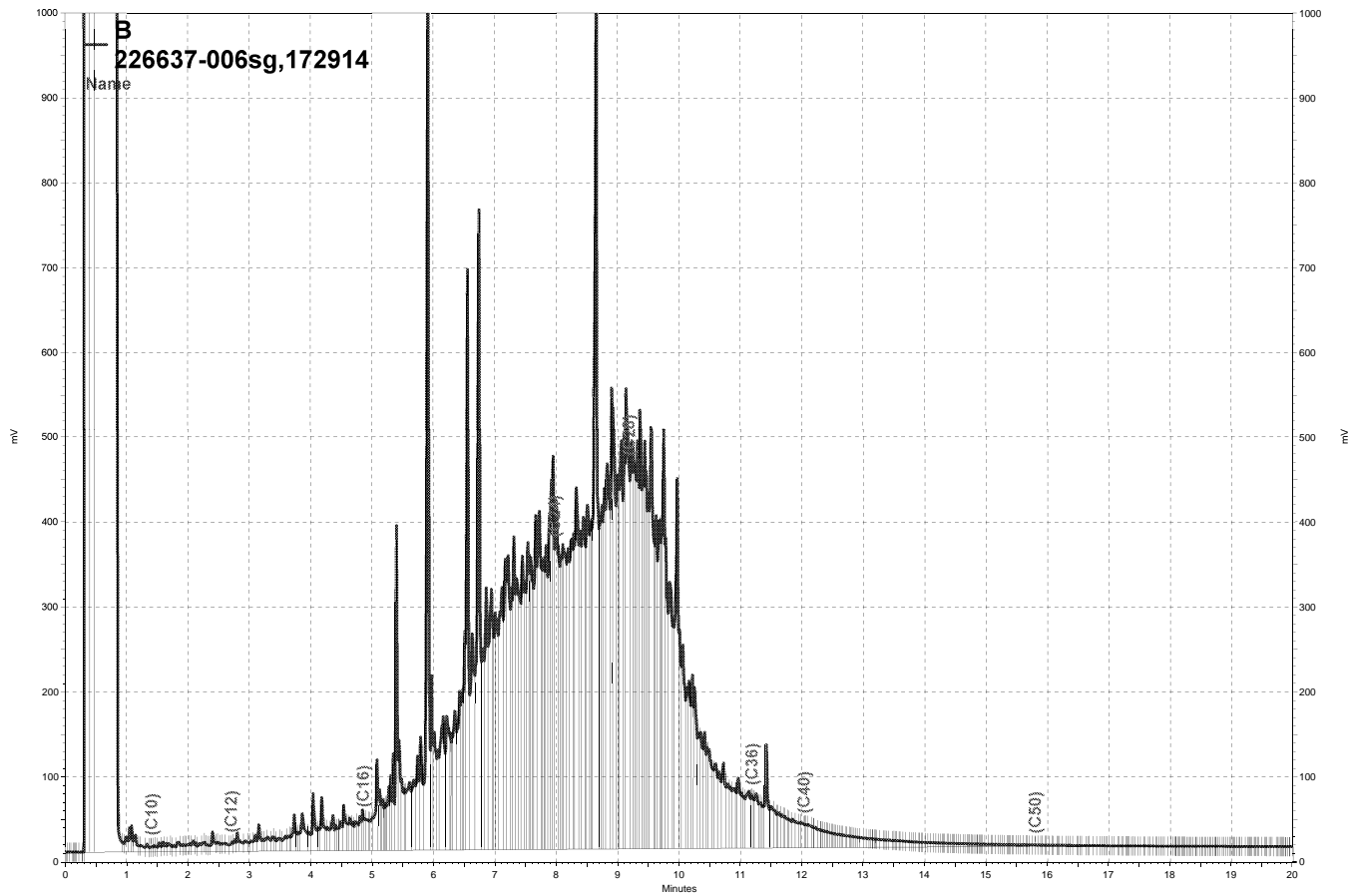
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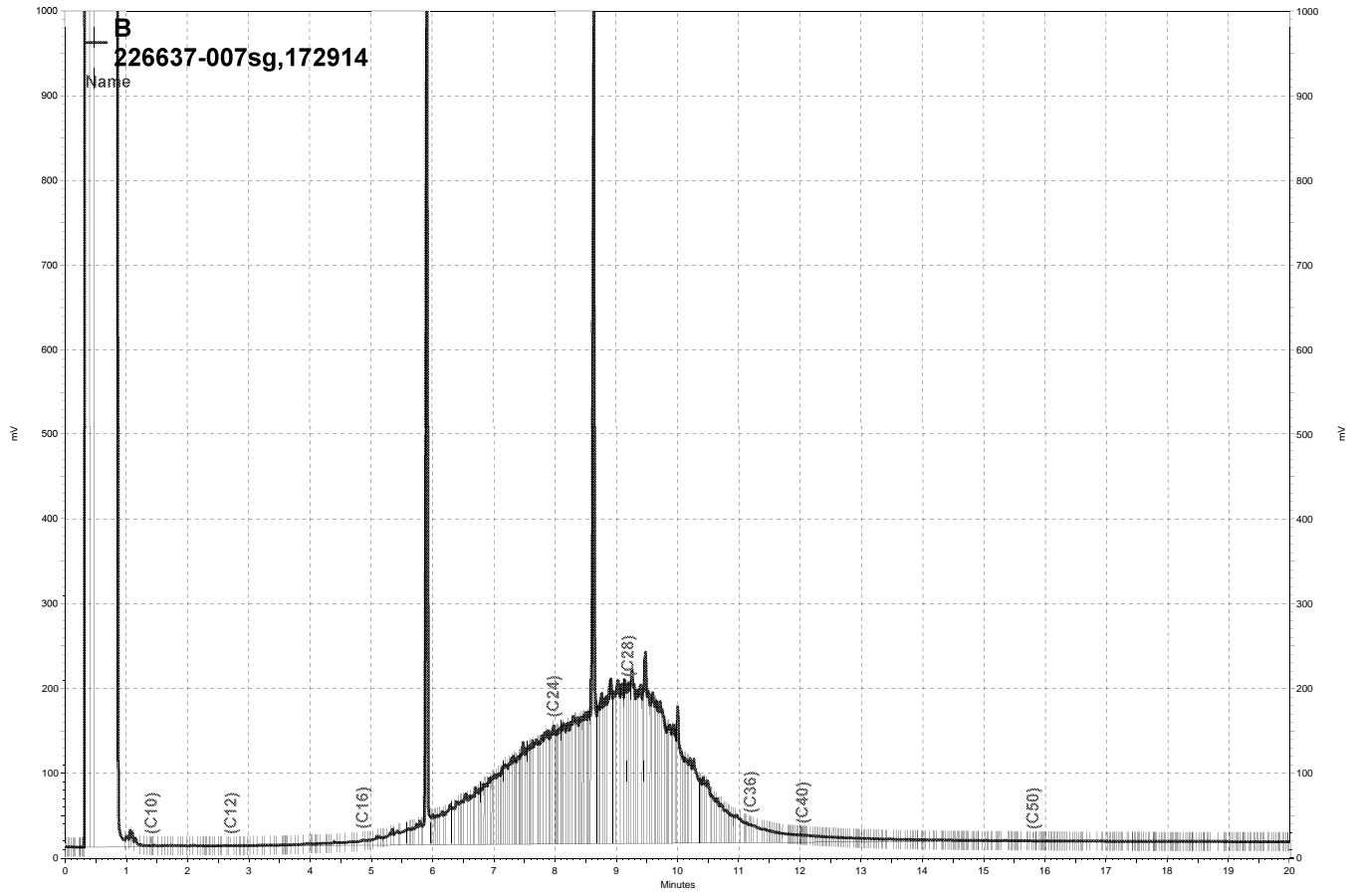
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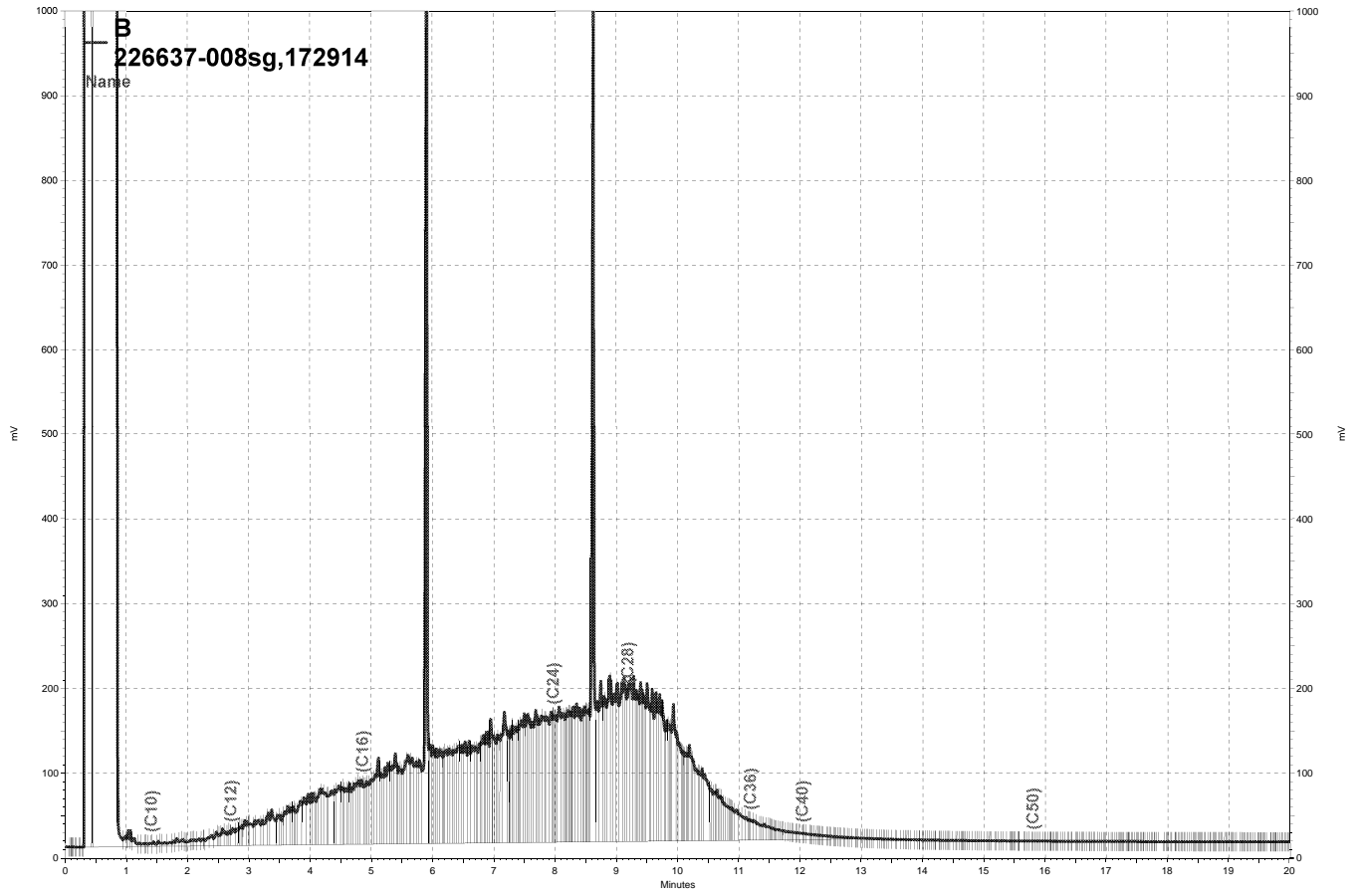
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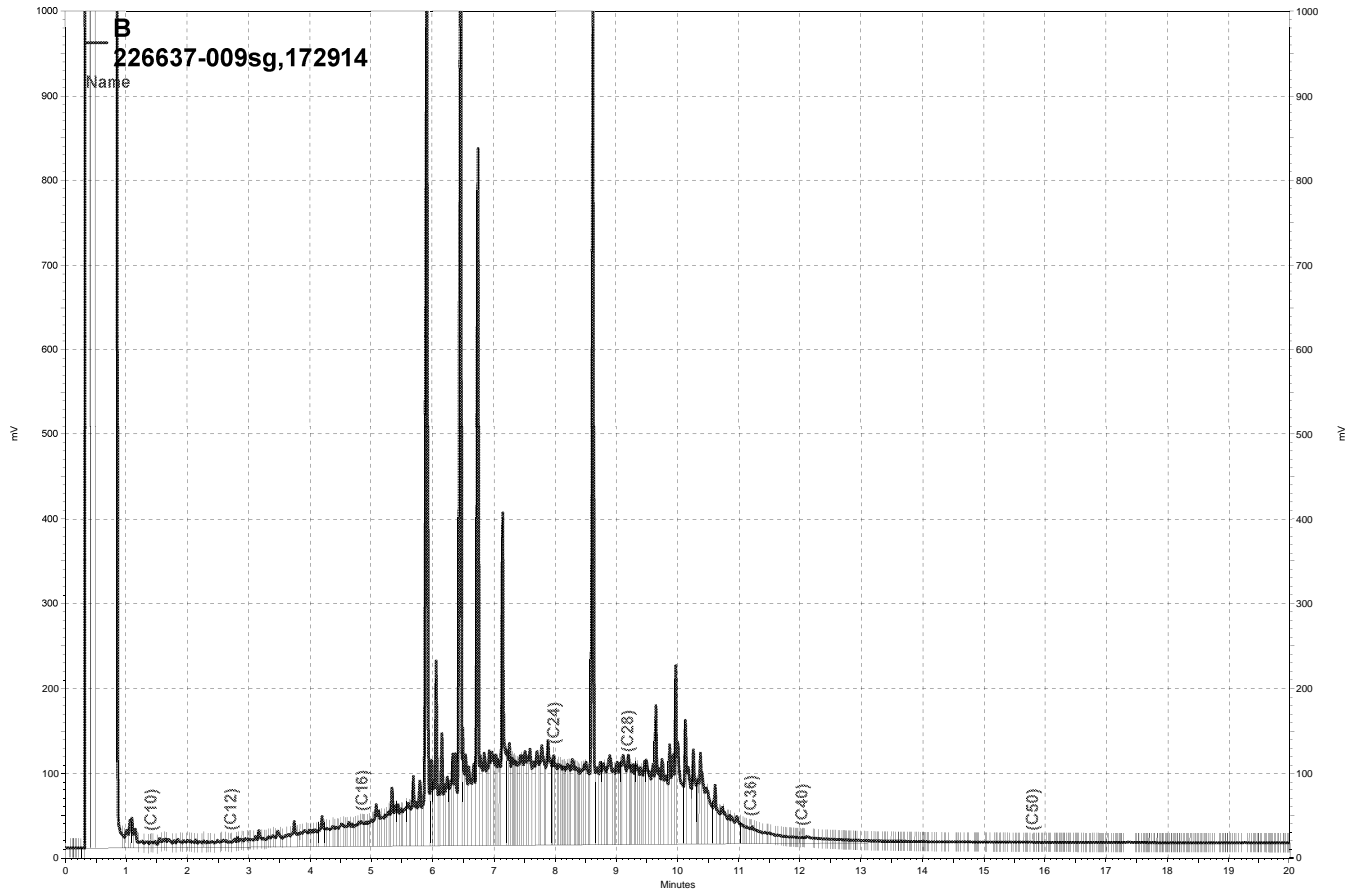


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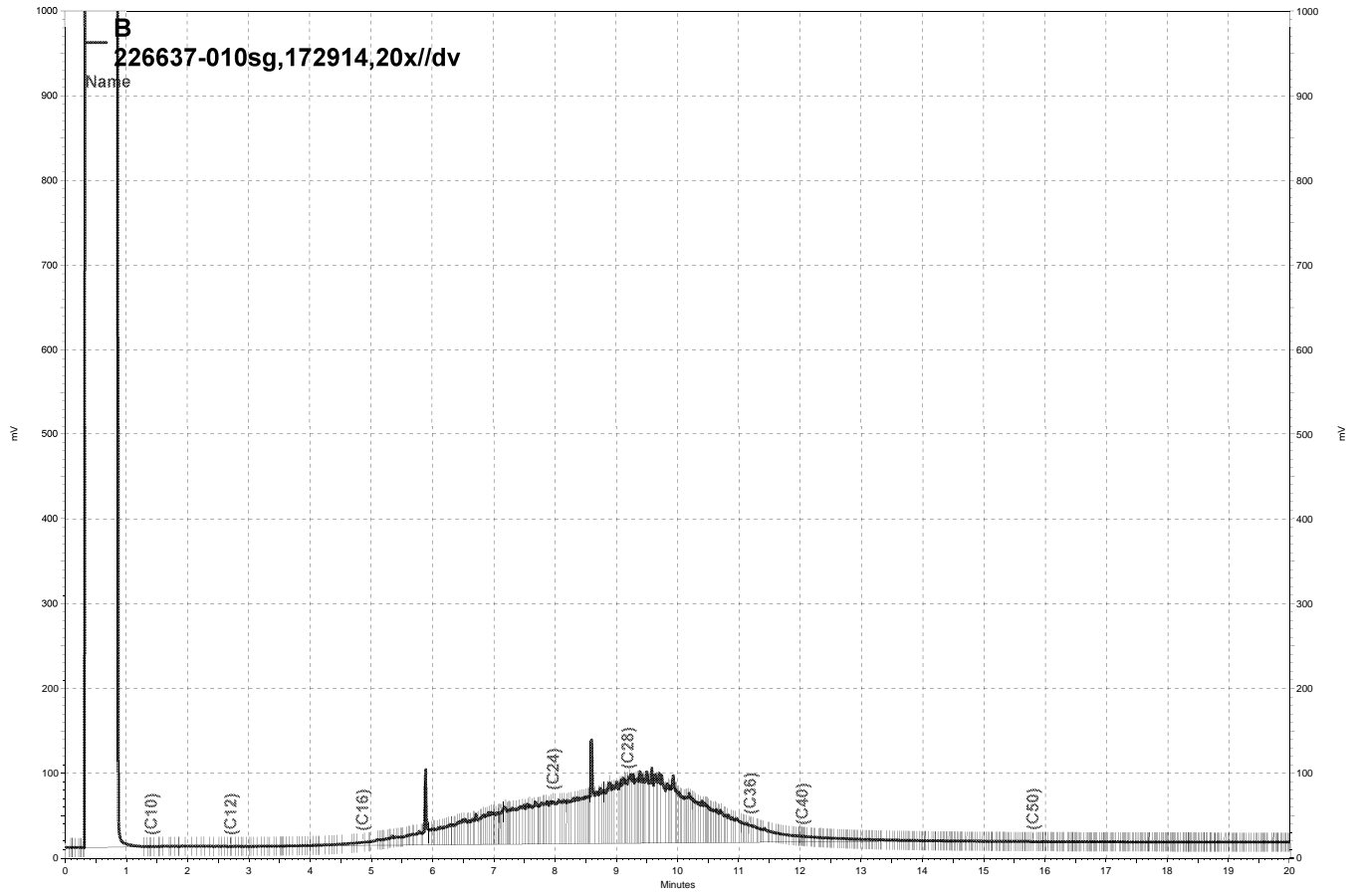


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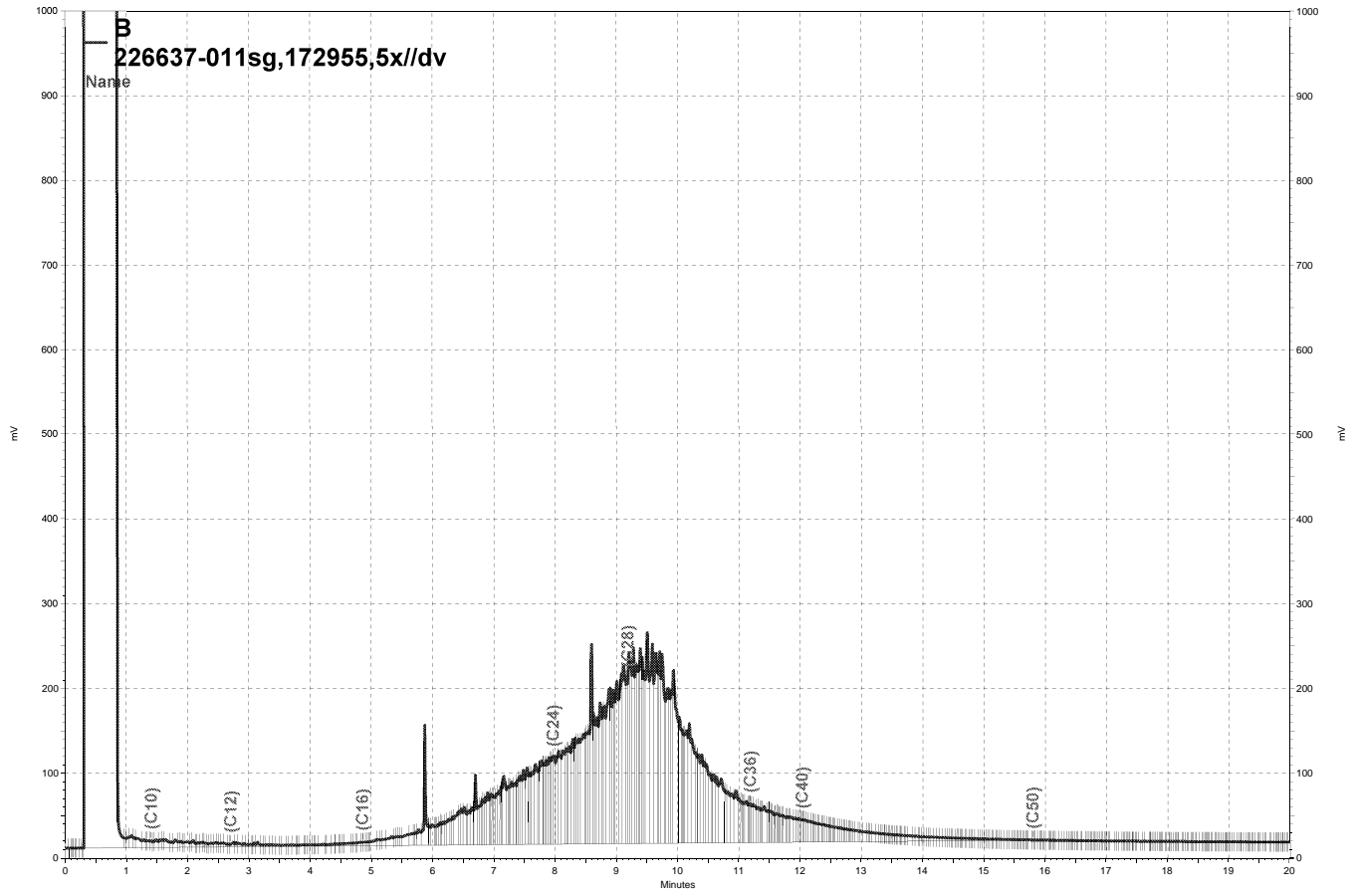




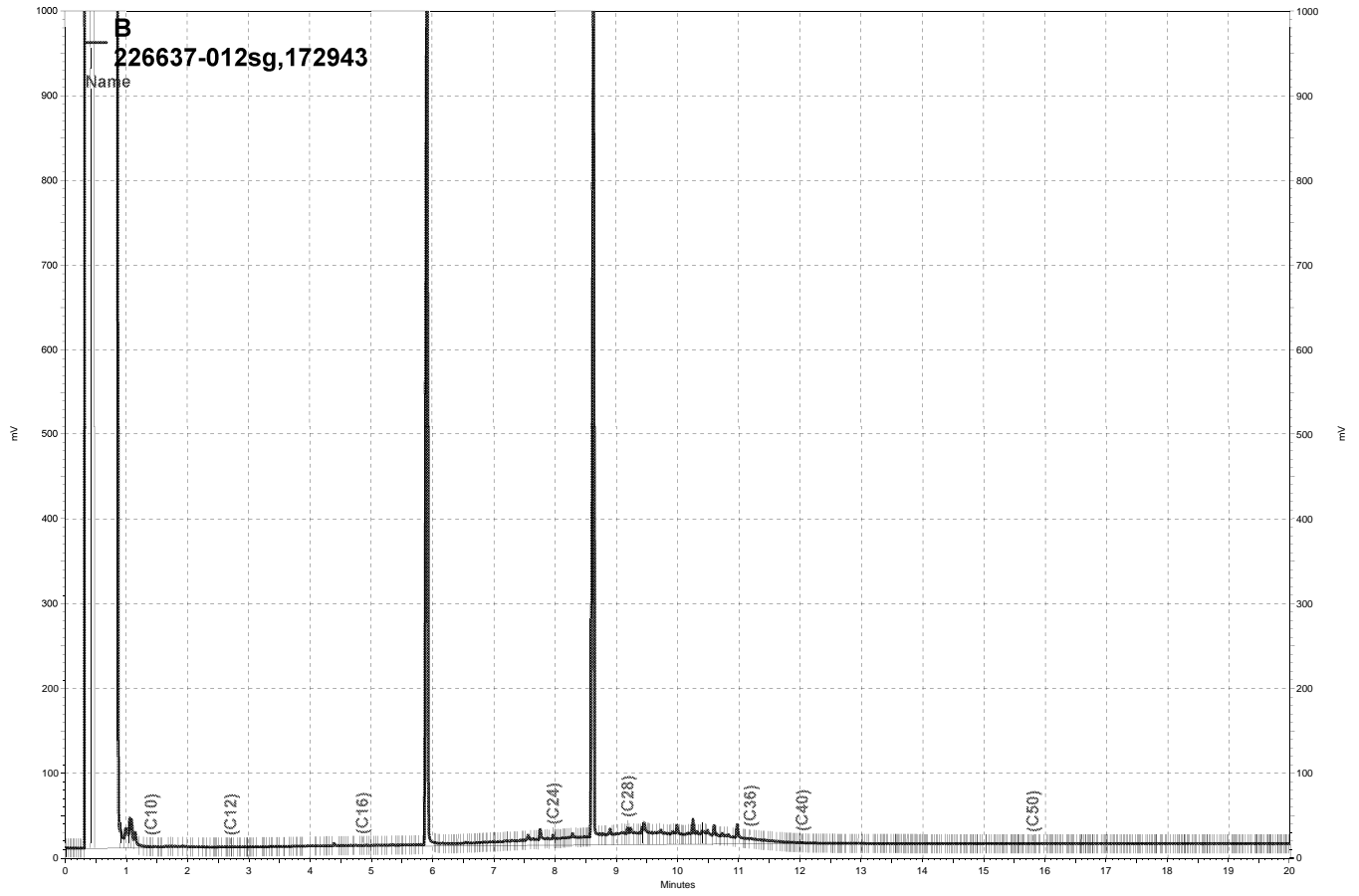
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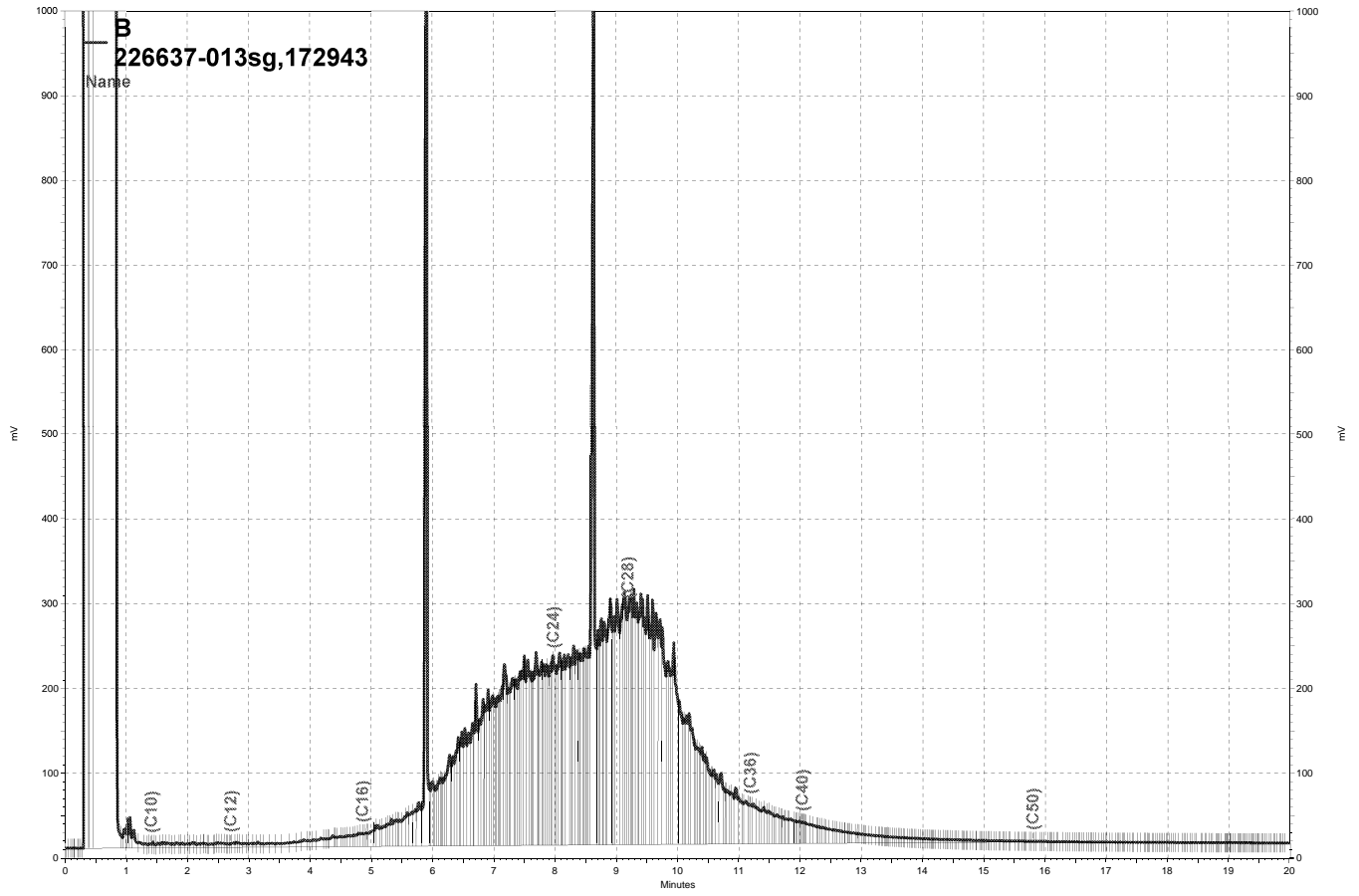
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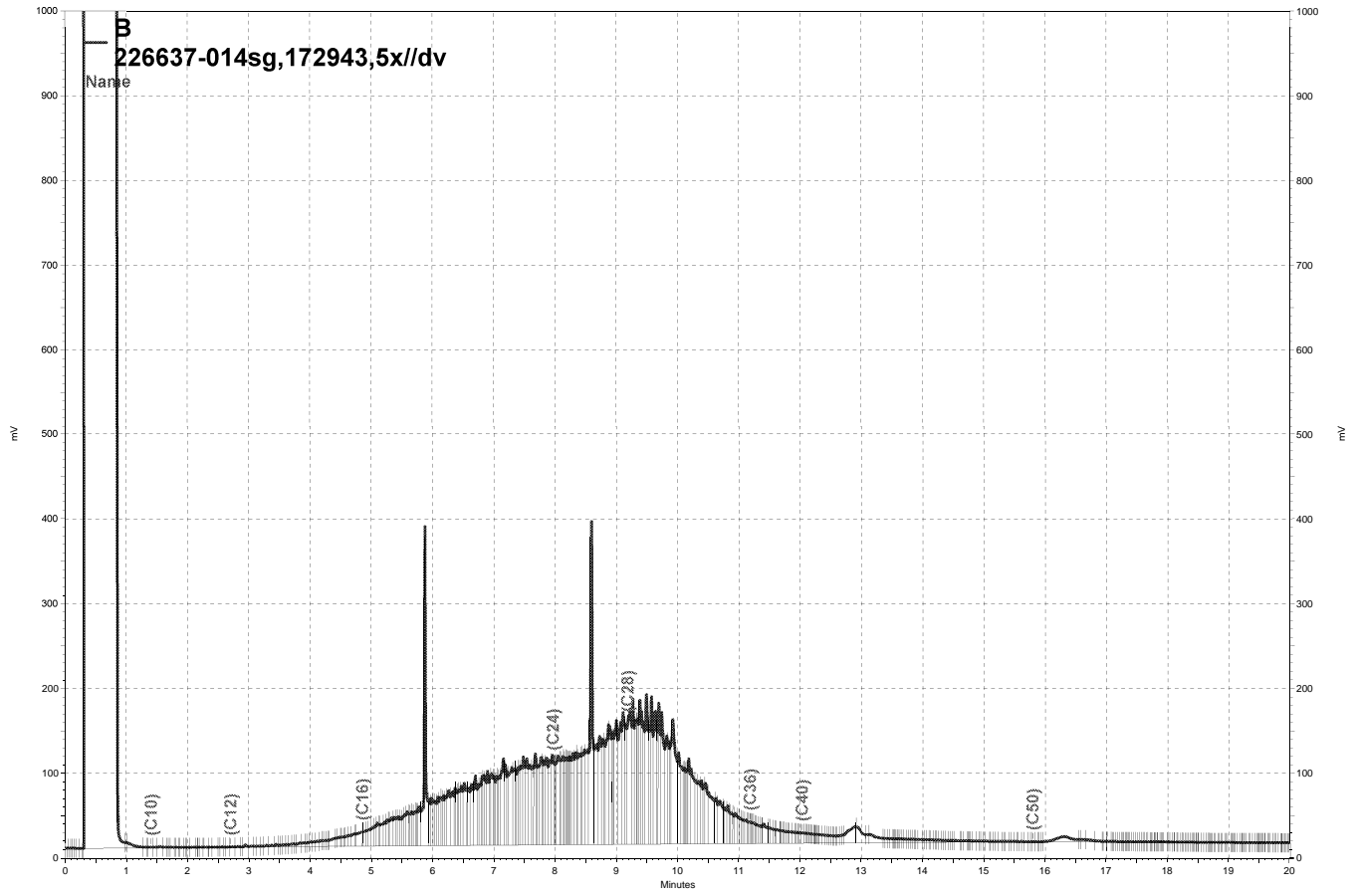
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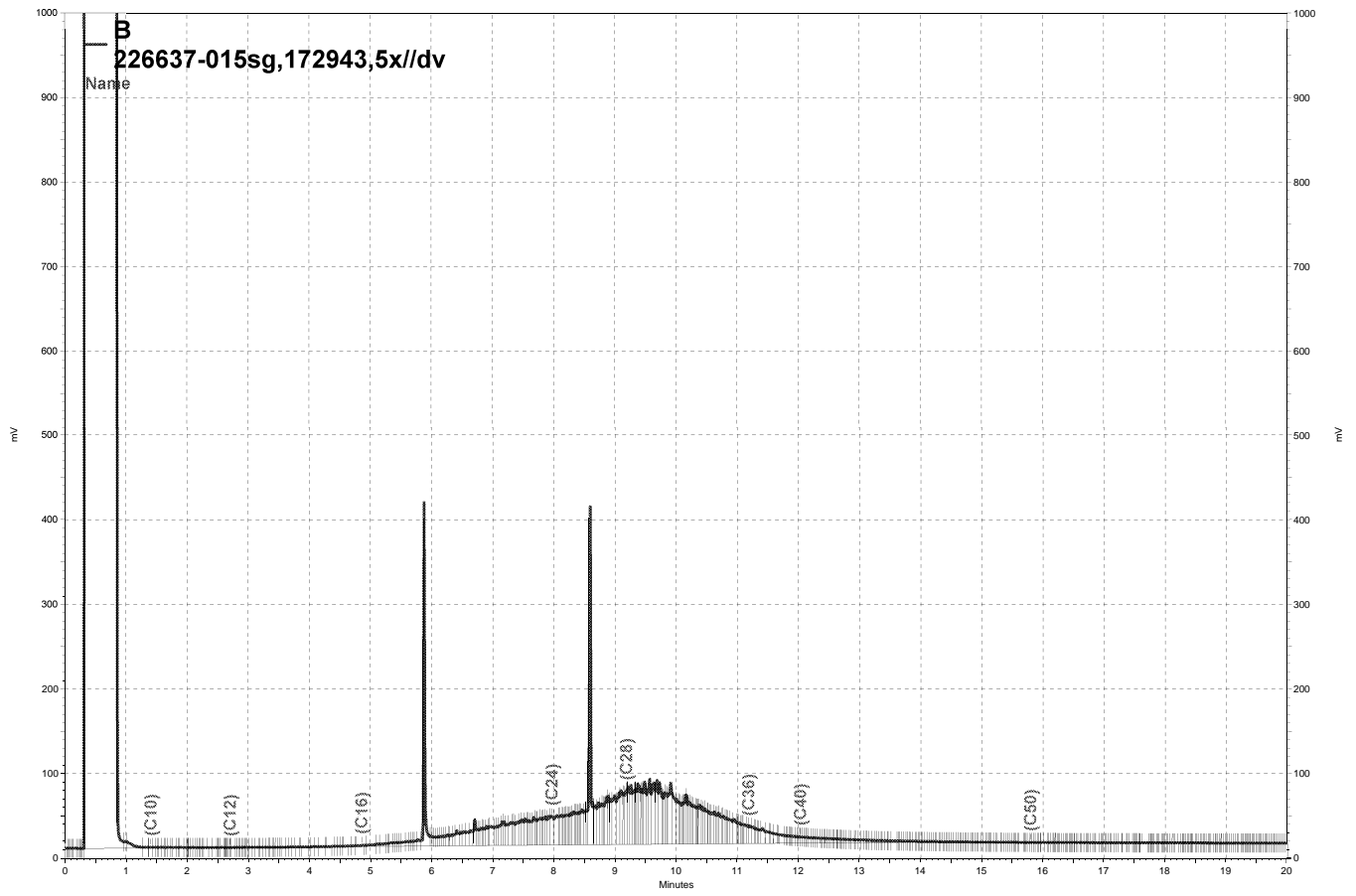
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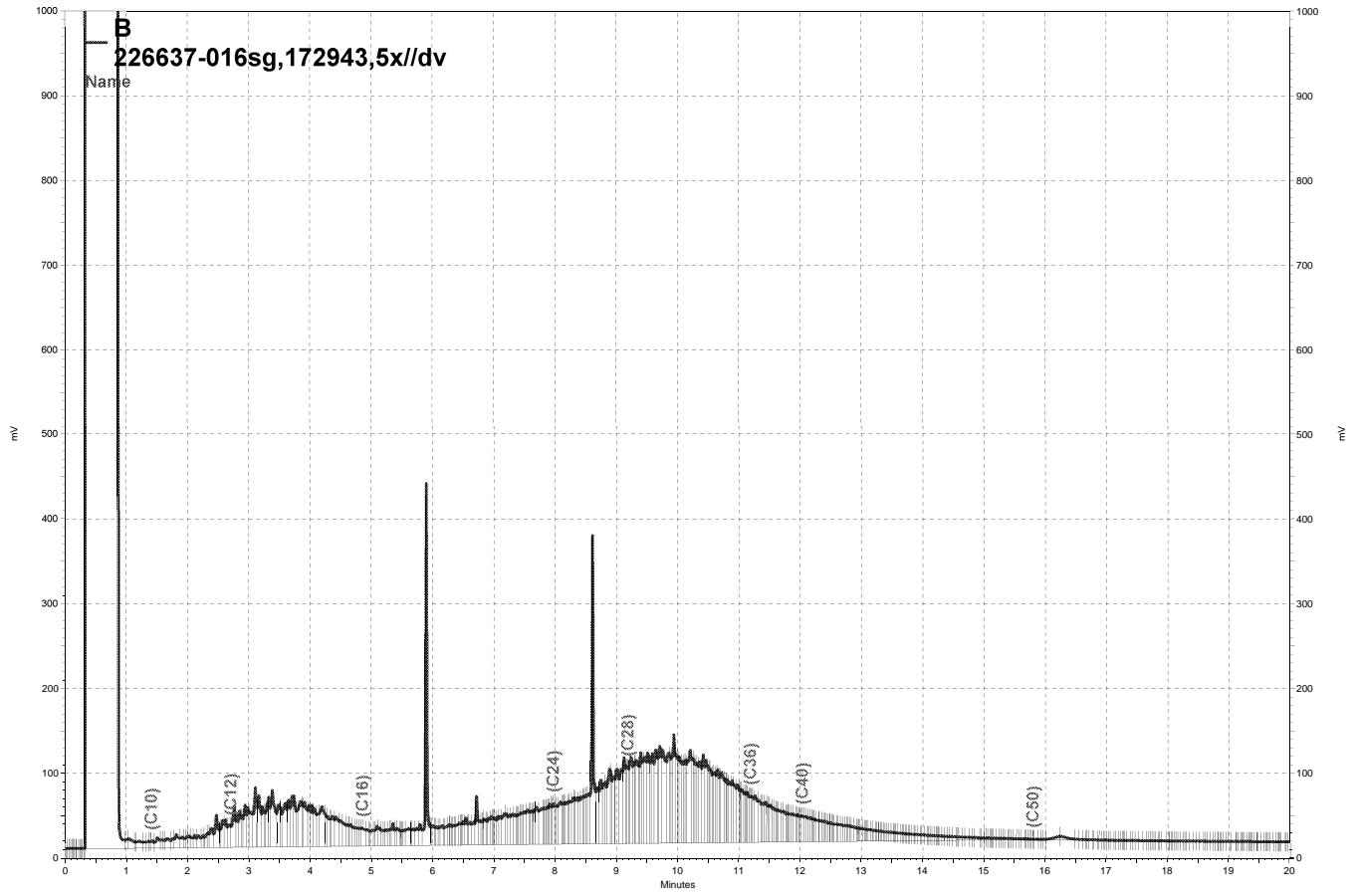
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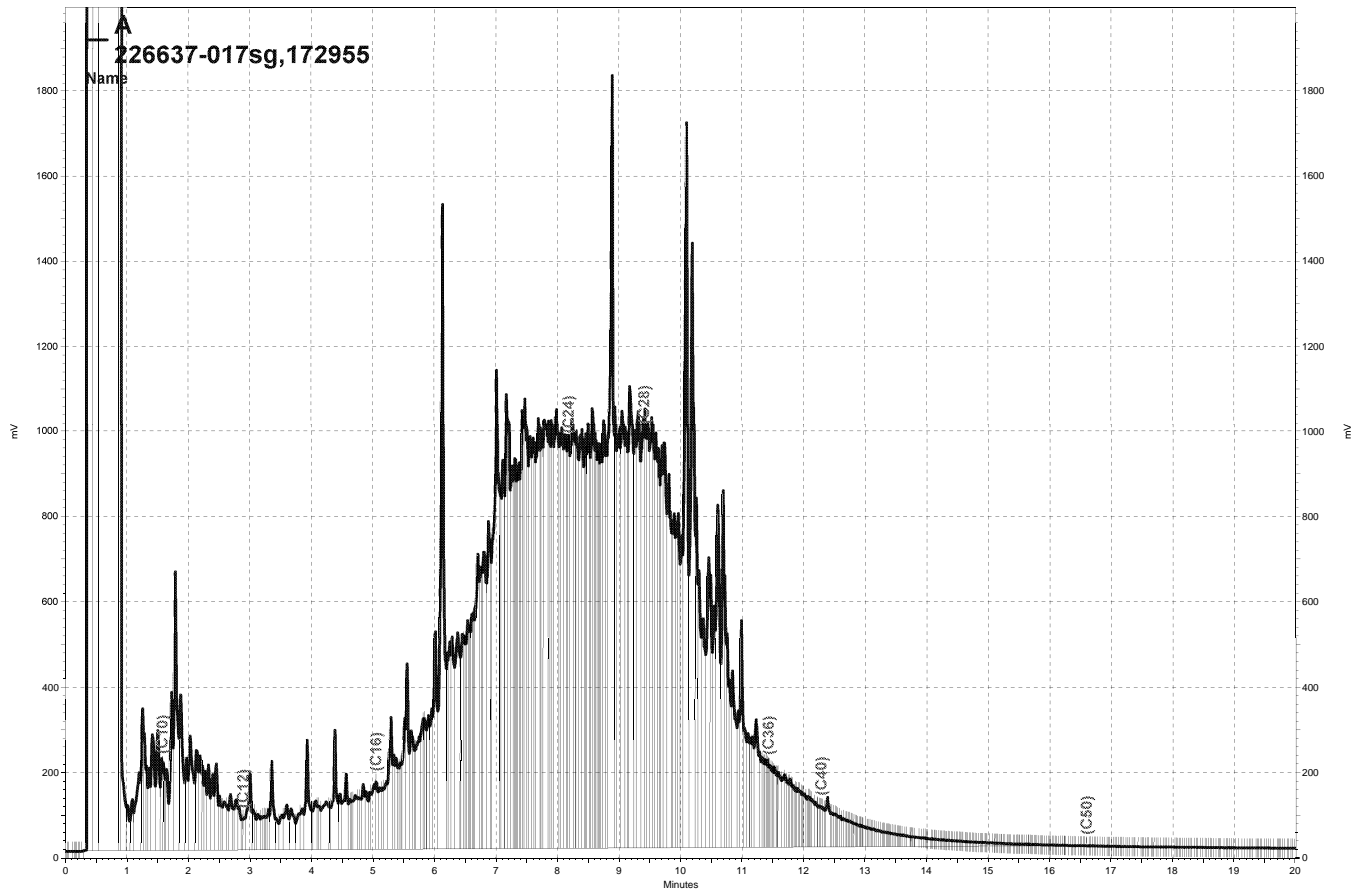


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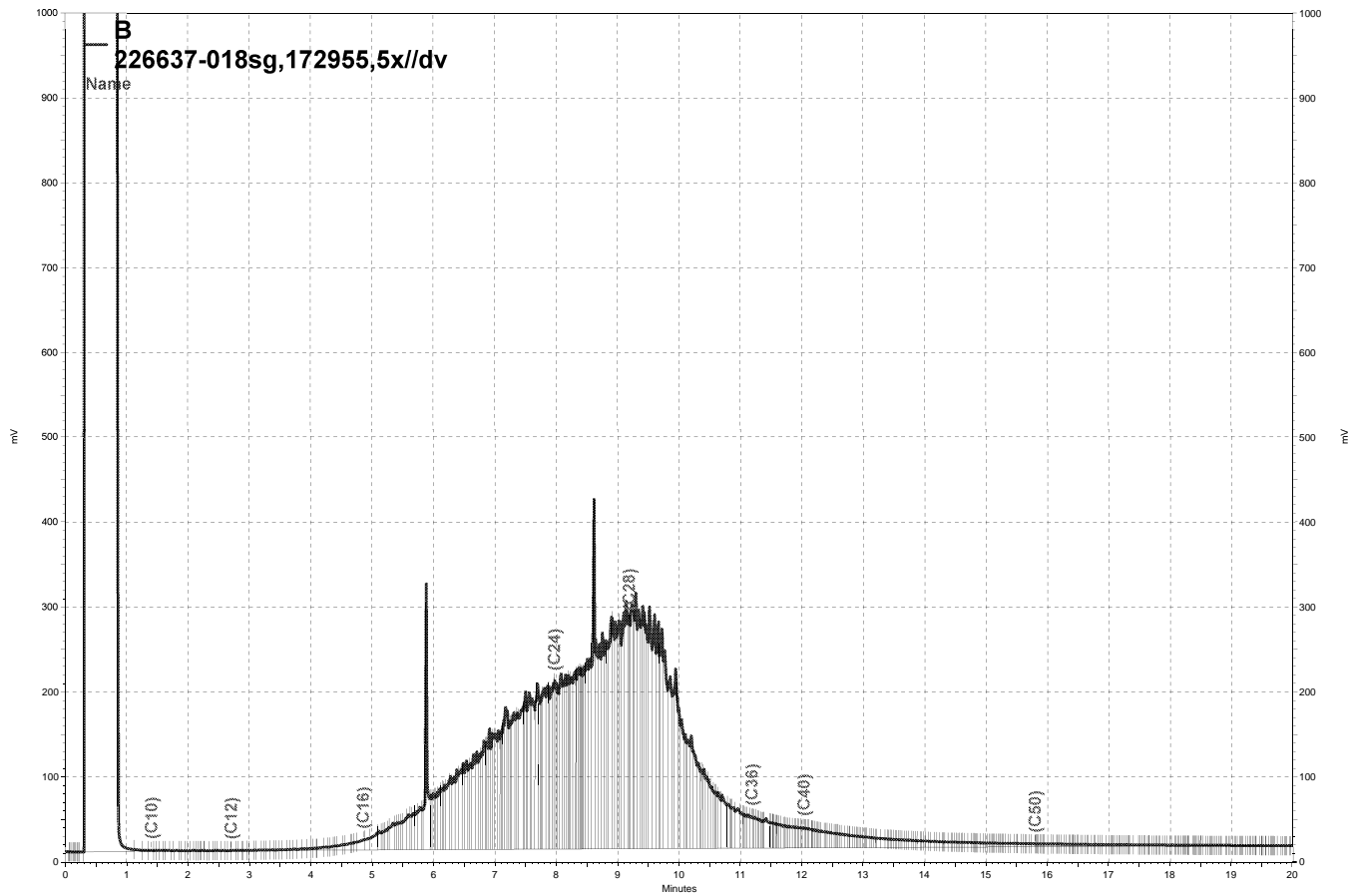


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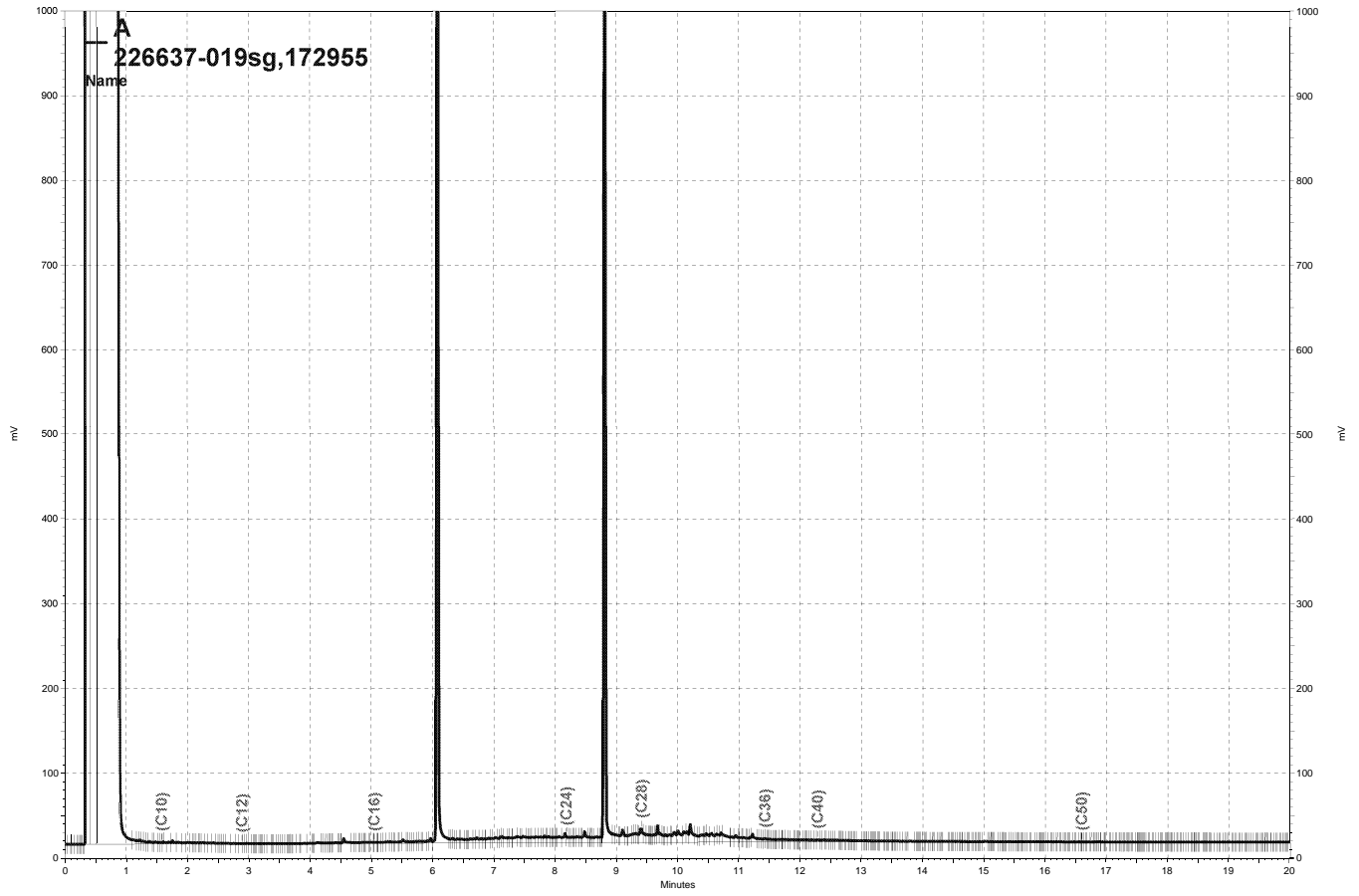




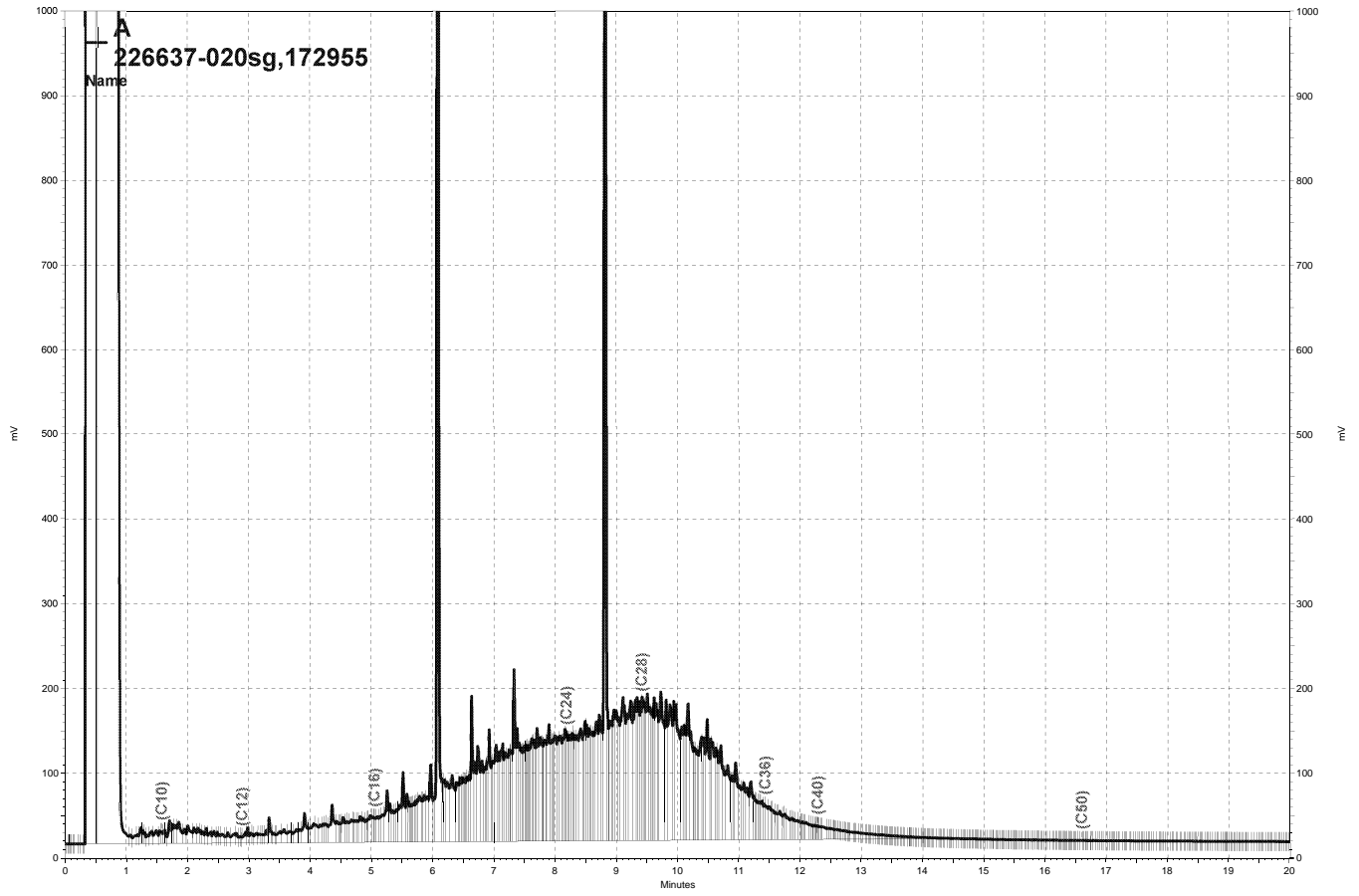
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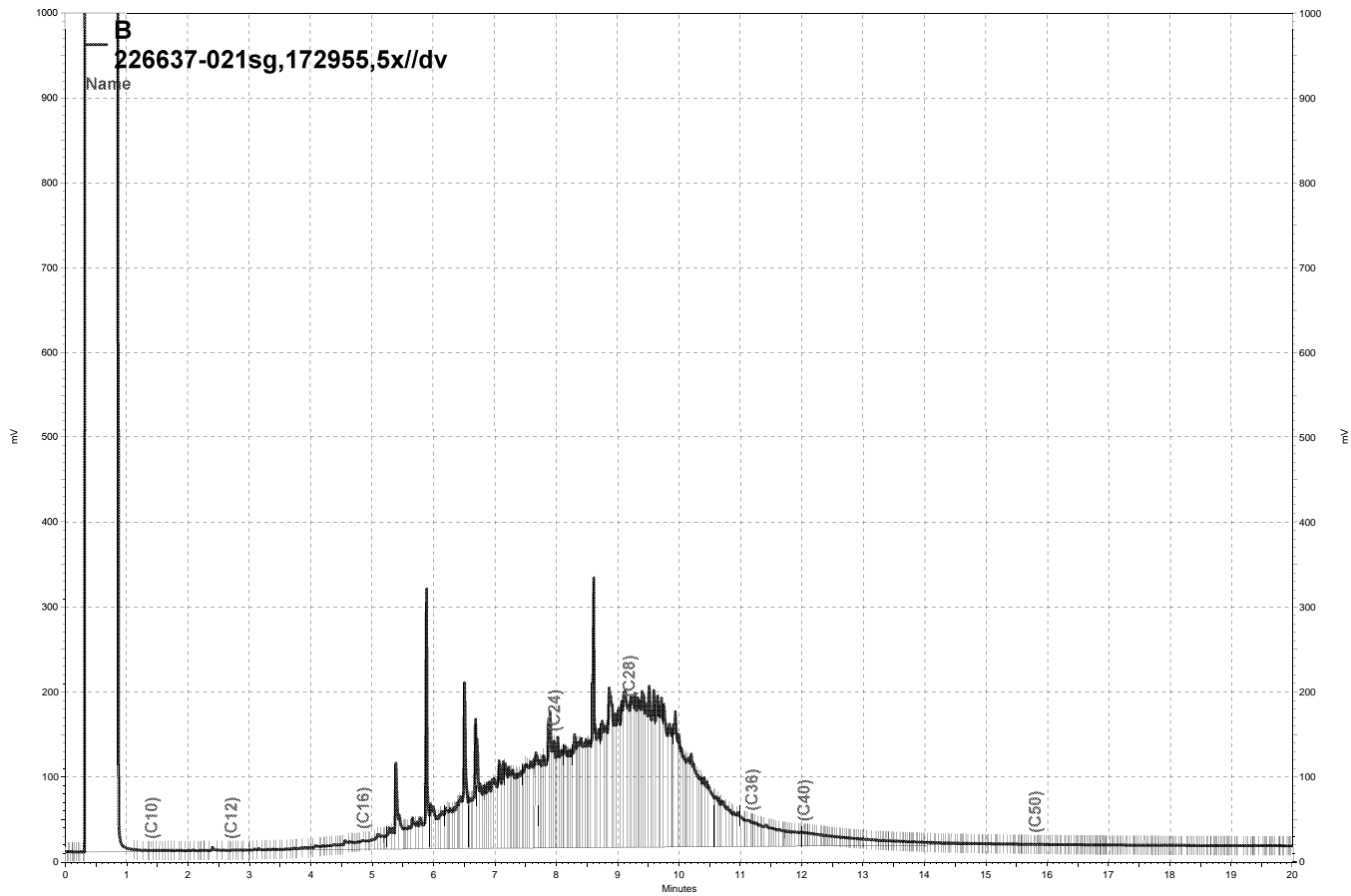
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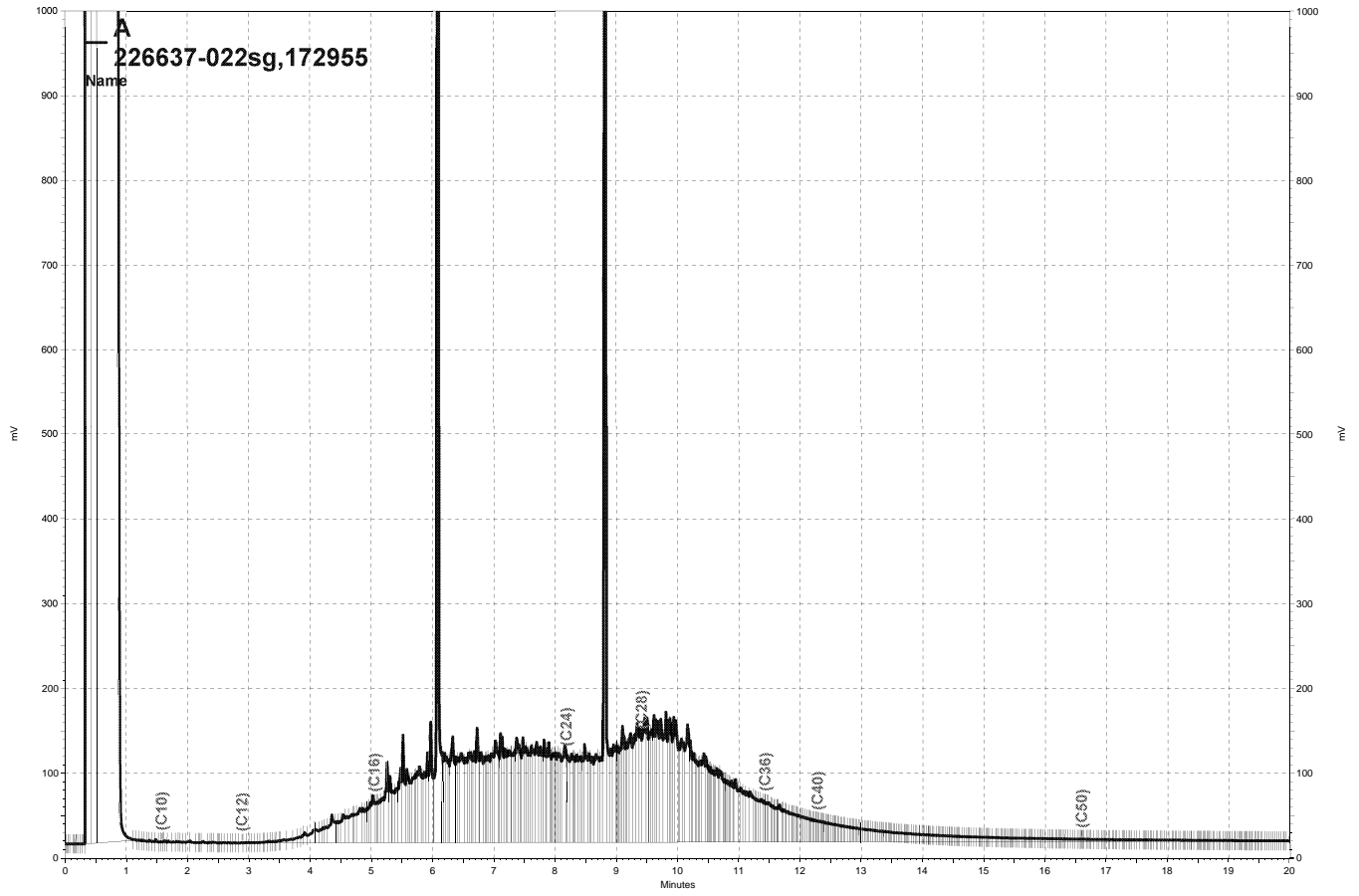
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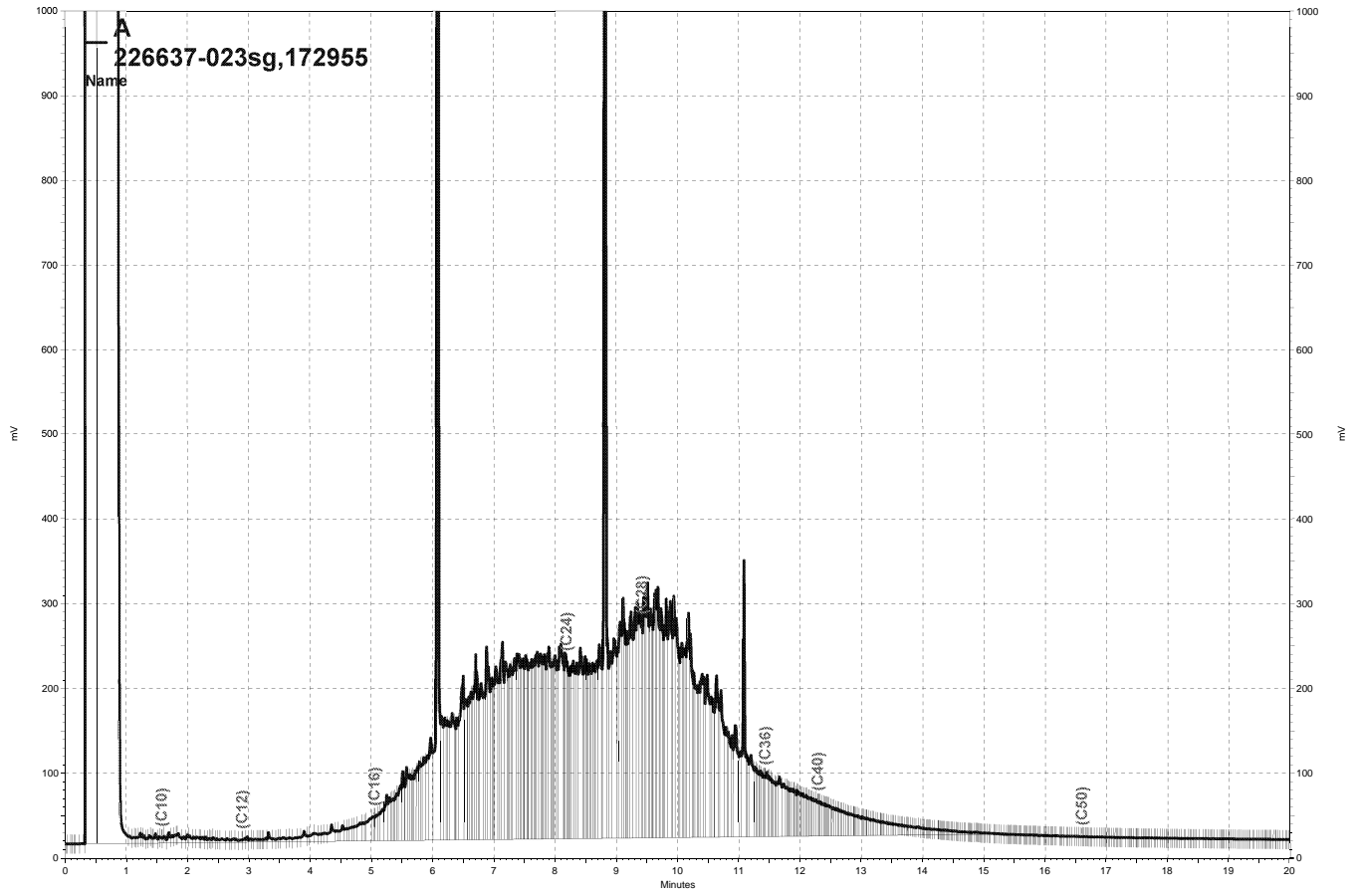
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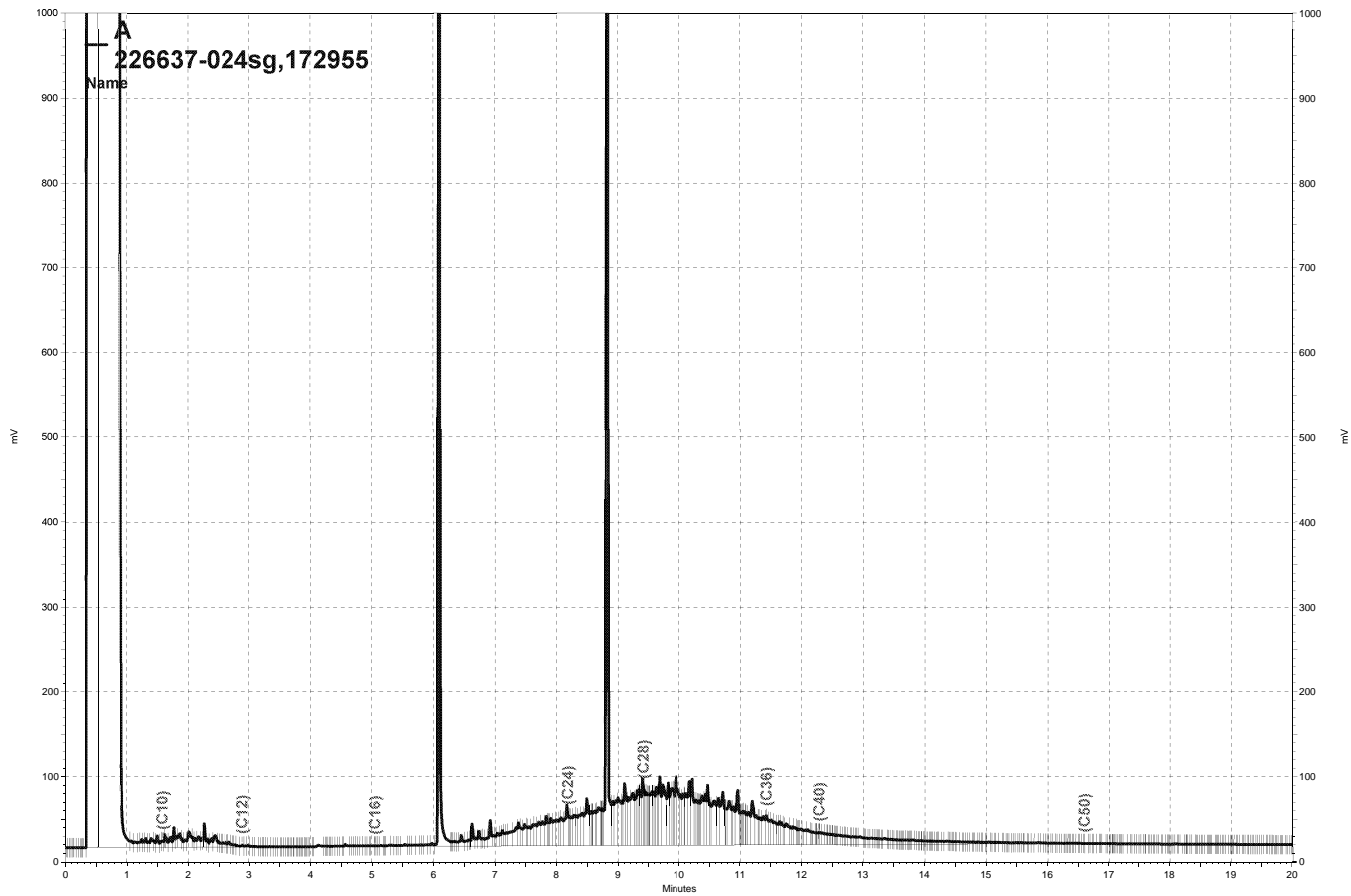
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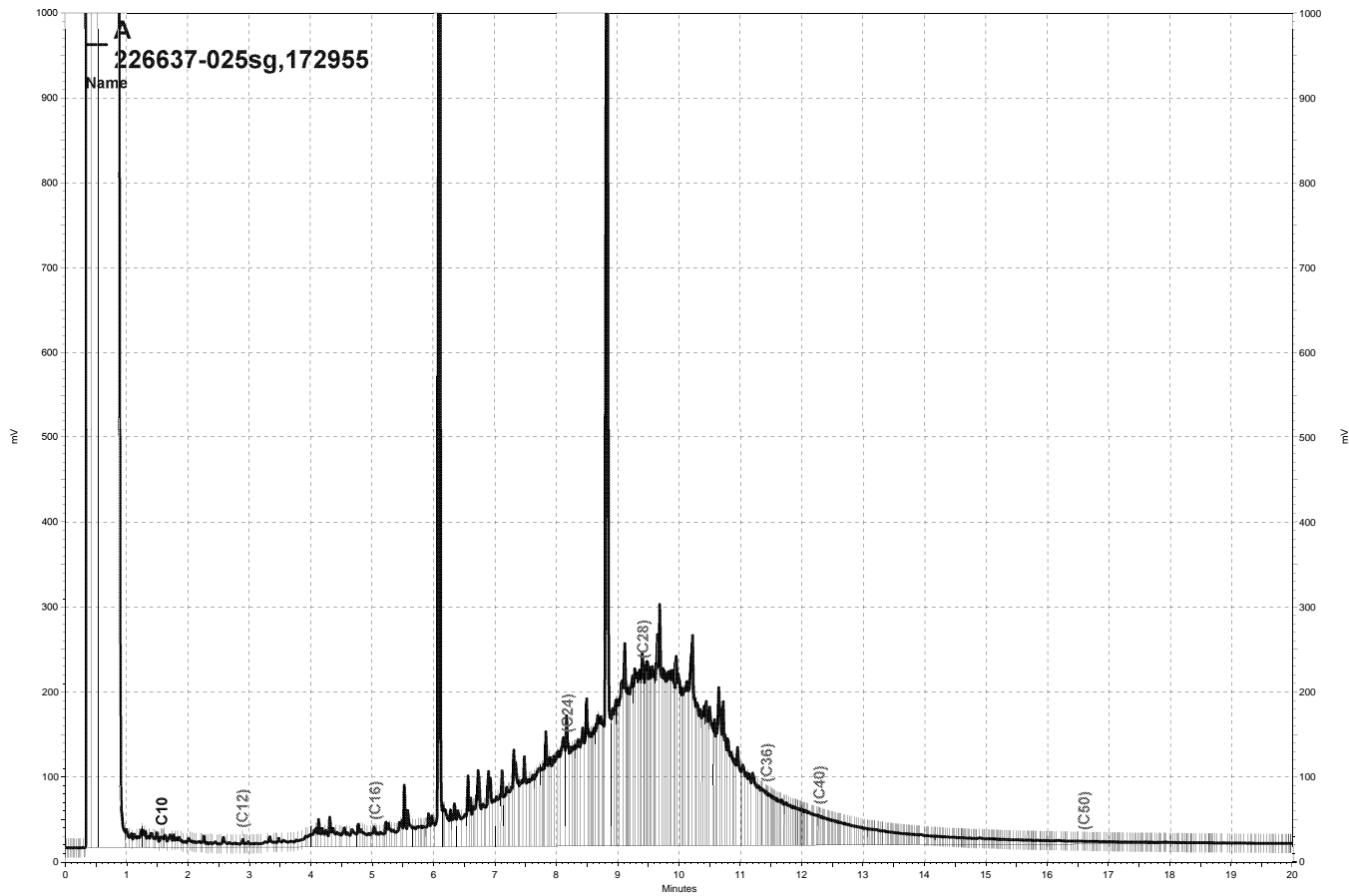


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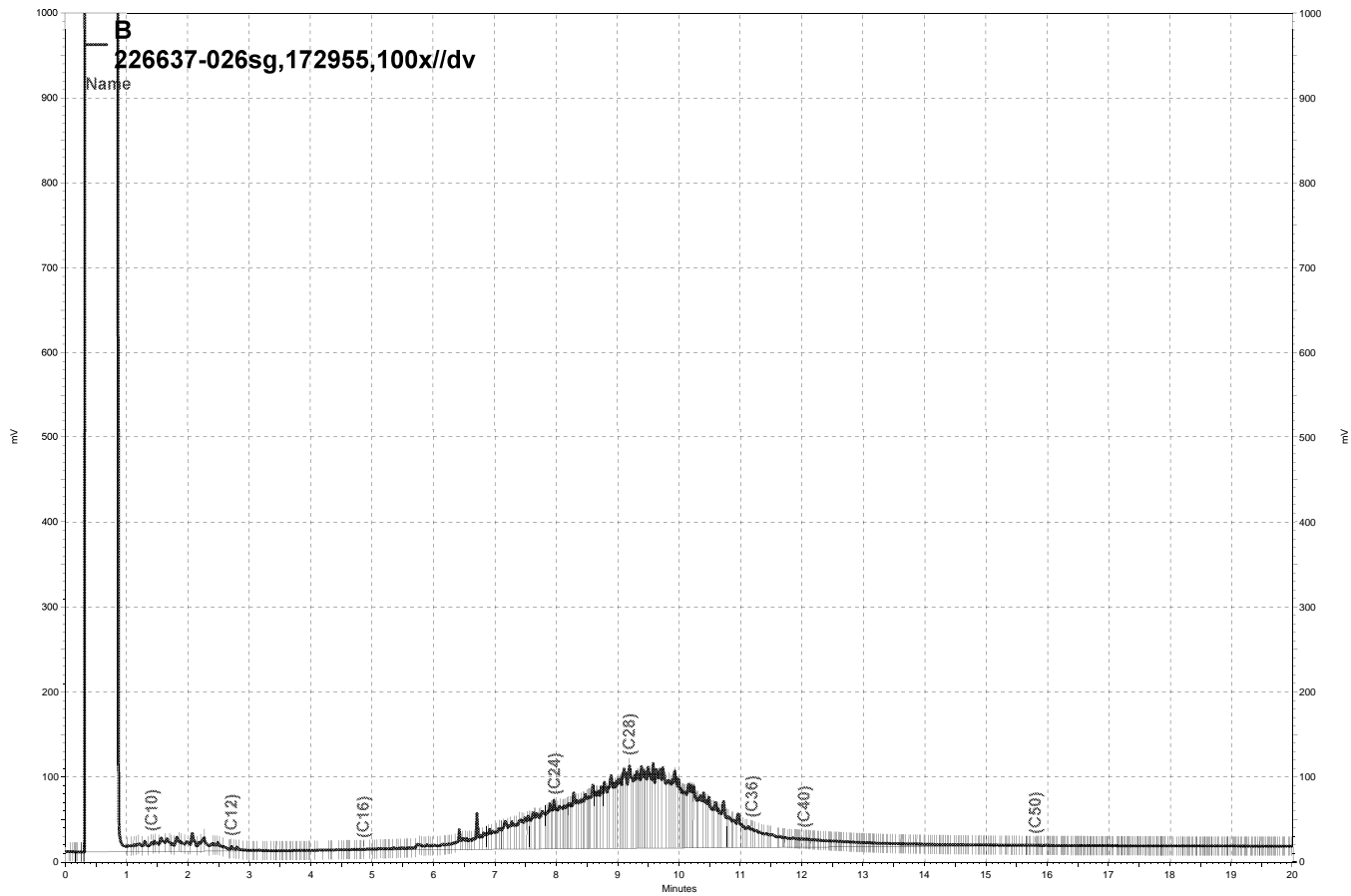


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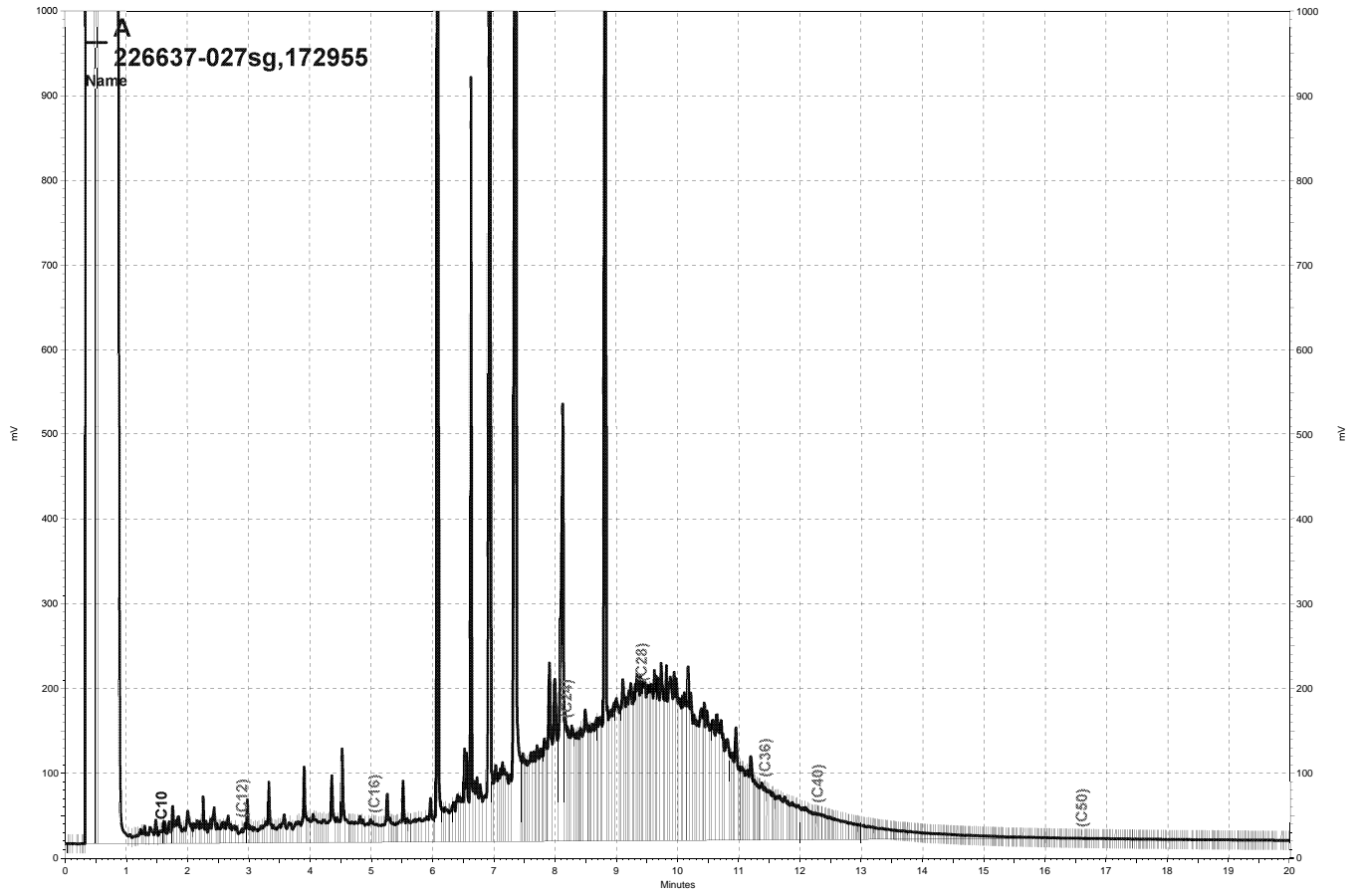




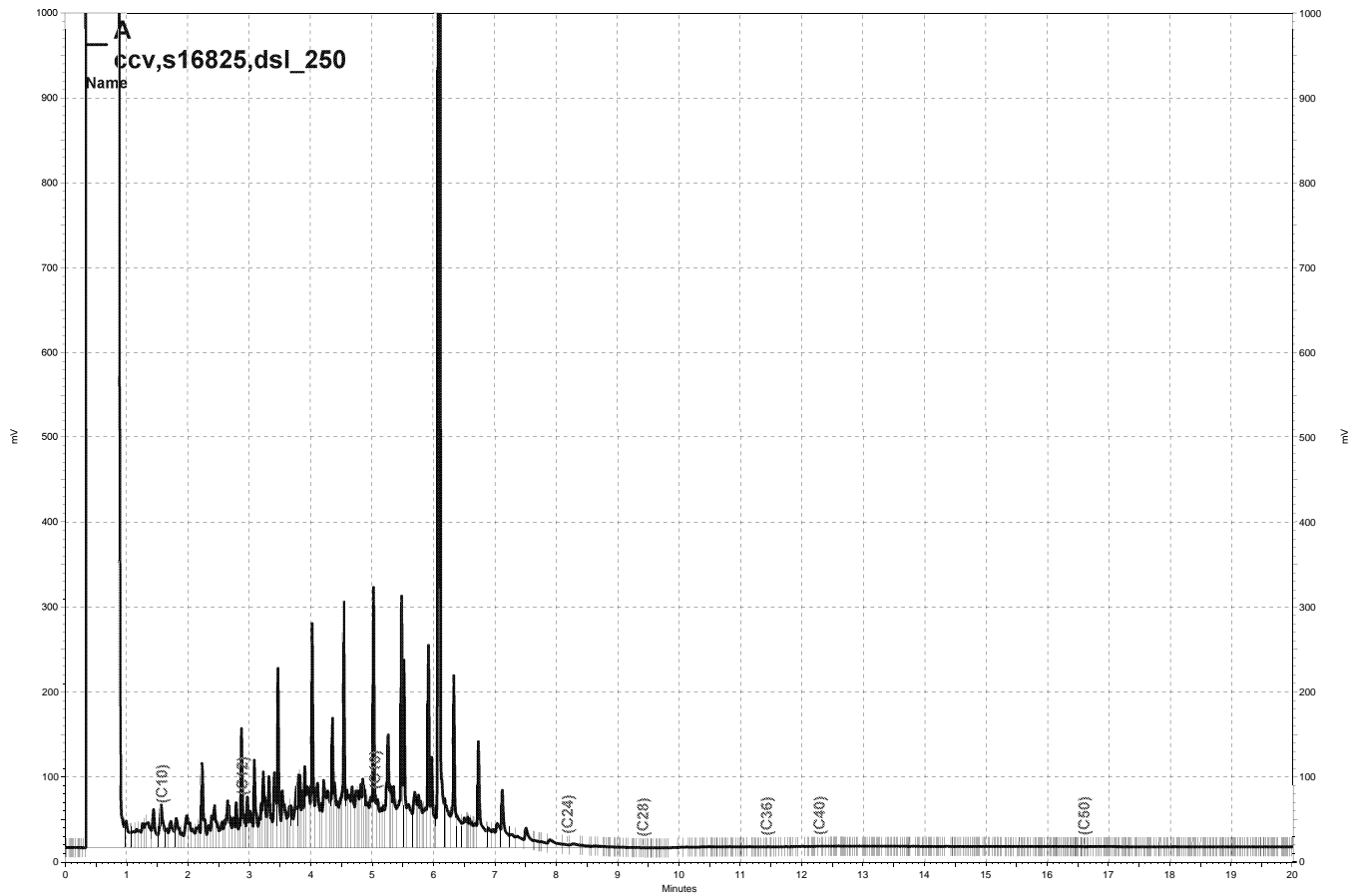
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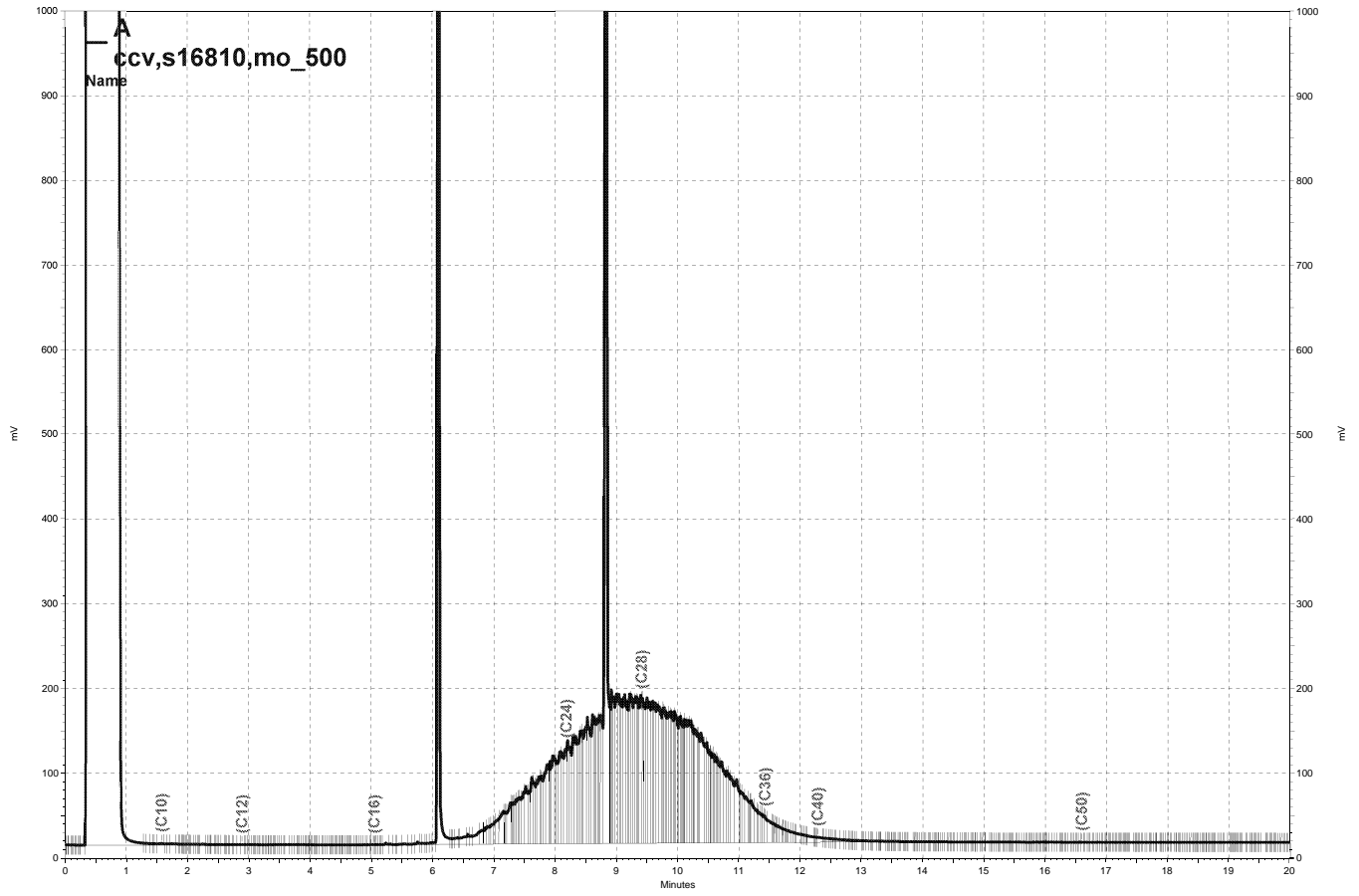
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\\Lims\gdrive\ezchrom\Projects\GC17A\Data\080a012, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\079a040, A



— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\080a005, A

### Purgeable Organics by GC/MS

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-15-12.5	Diln Fac:	0.8039
Lab ID:	226637-006	Batch#:	172815
Matrix:	Soil	Sampled:	03/15/11
Units:	ug/Kg	Received:	03/15/11
Basis:	as received	Analyzed:	03/16/11

Analyte	Result	RL
Freon 12	ND	8.0
Chloromethane	ND	8.0
Vinyl Chloride	ND	8.0
Bromomethane	ND	8.0
Chloroethane	ND	8.0
Trichlorofluoromethane	ND	4.0
Acetone	ND	16
Freon 113	ND	4.0
1,1-Dichloroethene	ND	4.0
Methylene Chloride	ND	16
Carbon Disulfide	ND	4.0
MTBE	ND	4.0
trans-1,2-Dichloroethene	ND	4.0
Vinyl Acetate	ND	40
1,1-Dichloroethane	ND	4.0
2-Butanone	ND	8.0
cis-1,2-Dichloroethene	ND	4.0
2,2-Dichloropropane	ND	4.0
Chloroform	ND	4.0
Bromochloromethane	ND	4.0
1,1,1-Trichloroethane	ND	4.0
1,1-Dichloropropene	ND	4.0
Carbon Tetrachloride	ND	4.0
1,2-Dichloroethane	ND	4.0
Benzene	ND	4.0
Trichloroethene	ND	4.0
1,2-Dichloropropane	ND	4.0
Bromodichloromethane	ND	4.0
Dibromomethane	ND	4.0
4-Methyl-2-Pentanone	ND	8.0
cis-1,3-Dichloropropene	ND	4.0
Toluene	ND	4.0
trans-1,3-Dichloropropene	ND	4.0
1,1,2-Trichloroethane	ND	4.0
2-Hexanone	ND	8.0
1,3-Dichloropropane	ND	4.0
Tetrachloroethene	ND	4.0

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-15-12.5	Diln Fac:	0.8039
Lab ID:	226637-006	Batch#:	172815
Matrix:	Soil	Sampled:	03/15/11
Units:	ug/Kg	Received:	03/15/11
Basis:	as received	Analyzed:	03/16/11

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

Surrogate	%REC	Limits
Dibromofluoromethane	91	79-120
1,2-Dichloroethane-d4	83	72-148
Toluene-d8	106	80-120
Bromofluorobenzene	115	78-130

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-40-7.5	Diln Fac:	0.7962
Lab ID:	226637-008	Batch#:	172815
Matrix:	Soil	Sampled:	03/15/11
Units:	ug/Kg	Received:	03/15/11
Basis:	as received	Analyzed:	03/16/11

Analyte	Result	RL
Freon 12	ND	8.0
Chloromethane	ND	8.0
Vinyl Chloride	ND	8.0
Bromomethane	ND	8.0
Chloroethane	ND	8.0
Trichlorofluoromethane	ND	4.0
Acetone	ND	16
Freon 113	ND	4.0
1,1-Dichloroethene	ND	4.0
Methylene Chloride	ND	16
Carbon Disulfide	ND	4.0
MTBE	ND	4.0
trans-1,2-Dichloroethene	ND	4.0
Vinyl Acetate	ND	40
1,1-Dichloroethane	ND	4.0
2-Butanone	ND	8.0
cis-1,2-Dichloroethene	ND	4.0
2,2-Dichloropropane	ND	4.0
Chloroform	ND	4.0
Bromochloromethane	ND	4.0
1,1,1-Trichloroethane	ND	4.0
1,1-Dichloropropene	ND	4.0
Carbon Tetrachloride	ND	4.0
1,2-Dichloroethane	ND	4.0
Benzene	ND	4.0
Trichloroethene	ND	4.0
1,2-Dichloropropane	ND	4.0
Bromodichloromethane	ND	4.0
Dibromomethane	ND	4.0
4-Methyl-2-Pentanone	ND	8.0
cis-1,3-Dichloropropene	ND	4.0
Toluene	ND	4.0
trans-1,3-Dichloropropene	ND	4.0
1,1,2-Trichloroethane	ND	4.0
2-Hexanone	ND	8.0
1,3-Dichloropropane	ND	4.0
Tetrachloroethene	ND	4.0

ND= Not Detected

RL= Reporting Limit



### Purgeable Organics by GC/MS

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-40-7.5	Diln Fac:	0.7962
Lab ID:	226637-008	Batch#:	172815
Matrix:	Soil	Sampled:	03/15/11
Units:	ug/Kg	Received:	03/15/11
Basis:	as received	Analyzed:	03/16/11

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

Surrogate	%REC	Limits
Dibromofluoromethane	97	79-120
1,2-Dichloroethane-d4	89	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	96	78-130

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-36-6.5	Diln Fac:	0.9416
Lab ID:	226637-016	Batch#:	172815
Matrix:	Soil	Sampled:	03/15/11
Units:	ug/Kg	Received:	03/15/11
Basis:	as received	Analyzed:	03/16/11

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-36-6.5	Diln Fac:	0.9416
Lab ID:	226637-016	Batch#:	172815
Matrix:	Soil	Sampled:	03/15/11
Units:	ug/Kg	Received:	03/15/11
Basis:	as received	Analyzed:	03/16/11

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	87	79-120
1,2-Dichloroethane-d4	85	72-148
Toluene-d8	101	80-120
Bromofluorobenzene	105	78-130

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-38-12.5	Diln Fac:	0.7911
Lab ID:	226637-027	Batch#:	172815
Matrix:	Soil	Sampled:	03/15/11
Units:	ug/Kg	Received:	03/15/11
Basis:	as received	Analyzed:	03/16/11

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

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-38-12.5	Diln Fac:	0.7911
Lab ID:	226637-027	Batch#:	172815
Matrix:	Soil	Sampled:	03/15/11
Units:	ug/Kg	Received:	03/15/11
Basis:	as received	Analyzed:	03/16/11

Analyte	Result	RL
Dibromochloromethane	ND	4.0
1,2-Dibromoethane	ND	4.0
Chlorobenzene	ND	4.0
1,1,1,2-Tetrachloroethane	ND	4.0
Ethylbenzene	ND	4.0
m,p-Xylenes	ND	4.0
o-Xylene	ND	4.0
Styrene	ND	4.0
Bromoform	ND	4.0
Isopropylbenzene	ND	4.0
1,1,2,2-Tetrachloroethane	ND	4.0
1,2,3-Trichloropropane	ND	4.0
Propylbenzene	ND	4.0
Bromobenzene	ND	4.0
1,3,5-Trimethylbenzene	ND	4.0
2-Chlorotoluene	ND	4.0
4-Chlorotoluene	ND	4.0
tert-Butylbenzene	ND	4.0
1,2,4-Trimethylbenzene	7.8	4.0
sec-Butylbenzene	ND	4.0
para-Isopropyl Toluene	ND	4.0
1,3-Dichlorobenzene	ND	4.0
1,4-Dichlorobenzene	ND	4.0
n-Butylbenzene	ND	4.0
1,2-Dichlorobenzene	ND	4.0
1,2-Dibromo-3-Chloropropane	ND	4.0
1,2,4-Trichlorobenzene	ND	4.0
Hexachlorobutadiene	ND	4.0
Naphthalene	5.3	4.0
1,2,3-Trichlorobenzene	ND	4.0

Surrogate	%REC	Limits
Dibromofluoromethane	89	79-120
1,2-Dichloroethane-d4	76	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	92	78-130

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC583978	Batch#: 172815
Matrix:	Soil	Analyzed: 03/16/11
Units:	ug/Kg	

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

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC583978	Batch#: 172815
Matrix:	Soil	Analyzed: 03/16/11
Units:	ug/Kg	

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

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	93	79-120
1,2-Dichloroethane-d4	90	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	89	78-130

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

Purgeable Organics by GC/MS		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 172815
Units:	ug/Kg	Analyzed: 03/16/11
Diln Fac:	1.000	

Type: BS Lab ID: QC583979

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	18.17	91	68-134
Benzene	20.00	20.40	102	80-128
Trichloroethene	20.00	19.71	99	75-130
Toluene	20.00	19.23	96	80-130
Chlorobenzene	20.00	20.62	103	80-126

Surrogate	%REC	Limits
Dibromofluoromethane	90	79-120
1,2-Dichloroethane-d4	91	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	88	78-130

Type: BSD Lab ID: QC583980

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	19.24	96	68-134	6	27
Benzene	20.00	19.39	97	80-128	5	20
Trichloroethene	20.00	19.59	98	75-130	1	20
Toluene	20.00	20.39	102	80-130	6	20
Chlorobenzene	20.00	19.64	98	80-126	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	79-120
1,2-Dichloroethane-d4	84	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	89	78-130

RPD= Relative Percent Difference



Semivolatile Organics by GC/MS			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-15-12.5	Batch#:	172878
Lab ID:	226637-006	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	ug/Kg	Prepared:	03/17/11
Basis:	as received	Analyzed:	03/17/11
Diln Fac:	10.00		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	3,300
Phenol	ND	3,300
bis(2-Chloroethyl)ether	ND	3,300
2-Chlorophenol	ND	3,300
1,3-Dichlorobenzene	ND	3,300
1,4-Dichlorobenzene	ND	3,300
Benzyl alcohol	ND	3,300
1,2-Dichlorobenzene	ND	3,300
2-Methylphenol	ND	3,300
bis(2-Chloroisopropyl) ether	ND	3,300
4-Methylphenol	ND	3,300
N-Nitroso-di-n-propylamine	ND	3,300
Hexachloroethane	ND	3,300
Nitrobenzene	ND	3,300
Isophorone	ND	3,300
2-Nitrophenol	ND	6,600
2,4-Dimethylphenol	ND	3,300
Benzoic acid	ND	17,000
bis(2-Chloroethoxy)methane	ND	3,300
2,4-Dichlorophenol	ND	3,300
1,2,4-Trichlorobenzene	ND	3,300
Naphthalene	ND	660
4-Chloroaniline	ND	3,300
Hexachlorobutadiene	ND	3,300
4-Chloro-3-methylphenol	ND	3,300
2-Methylnaphthalene	ND	660
Hexachlorocyclopentadiene	ND	6,600
2,4,6-Trichlorophenol	ND	3,300
2,4,5-Trichlorophenol	ND	3,300
2-Chloronaphthalene	ND	3,300
2-Nitroaniline	ND	6,600
Dimethylphthalate	ND	3,300
Acenaphthylene	ND	660
2,6-Dinitrotoluene	ND	3,300
3-Nitroaniline	ND	6,600
Acenaphthene	ND	660
2,4-Dinitrophenol	ND	6,600
4-Nitrophenol	ND	6,600
Dibenzofuran	ND	3,300
2,4-Dinitrotoluene	ND	3,300
Diethylphthalate	ND	3,300
Fluorene	ND	660
4-Chlorophenyl-phenylether	ND	3,300
4-Nitroaniline	ND	6,600
4,6-Dinitro-2-methylphenol	ND	6,600
N-Nitrosodiphenylamine	ND	3,300
Azobenzene	ND	3,300
4-Bromophenyl-phenylether	ND	3,300
Hexachlorobenzene	ND	3,300
Pentachlorophenol	ND	6,600
Phenanthrene	ND	660
Anthracene	ND	660

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

Semivolatile Organics by GC/MS		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-15-12.5	Batch#: 172878
Lab ID:	226637-006	Sampled: 03/15/11
Matrix:	Soil	Received: 03/15/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/17/11
Diln Fac:	10.00	

Analyte	Result	RL
Di-n-butylphthalate	ND	3,300
Fluoranthene	710	660
Pyrene	910	660
Butylbenzylphthalate	ND	3,300
3,3'-Dichlorobenzidine	ND	6,600
Benzo(a)anthracene	ND	660
Chrysene	ND	660
bis(2-Ethylhexyl)phthalate	ND	3,300
Di-n-octylphthalate	ND	3,300
Benzo(b)fluoranthene	ND	660
Benzo(k)fluoranthene	ND	660
Benzo(a)pyrene	ND	660
Indeno(1,2,3-cd)pyrene	ND	660
Dibenz(a,h)anthracene	ND	660
Benzo(g,h,i)perylene	ND	660

Surrogate	%REC	Limits
2-Fluorophenol	DO	35-120
Phenol-d5	DO	33-120
2,4,6-Tribromophenol	DO	30-120
Nitrobenzene-d5	DO	43-120
2-Fluorobiphenyl	DO	47-120
Terphenyl-d14	DO	40-120

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

Semivolatile Organics by GC/MS			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-40-7.5	Batch#:	172878
Lab ID:	226637-008	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	ug/Kg	Prepared:	03/17/11
Basis:	as received	Analyzed:	03/17/11
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-40-7.5	Batch#: 172878
Lab ID:	226637-008	Sampled: 03/15/11
Matrix:	Soil	Received: 03/15/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/17/11
Diln Fac:	1.000	

Analyte	Result	RL
Fluoranthene	ND	66
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	68	35-120
Phenol-d5	70	33-120
2,4,6-Tribromophenol	77	30-120
Nitrobenzene-d5	59	43-120
2-Fluorobiphenyl	77	47-120
Terphenyl-d14	67	40-120

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-36-6.5	Batch#:	172878
Lab ID:	226637-016	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	ug/Kg	Prepared:	03/17/11
Basis:	as received	Analyzed:	03/17/11
Diln Fac:	5.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	1,700
Phenol	ND	1,700
bis(2-Chloroethyl)ether	ND	1,700
2-Chlorophenol	ND	1,700
1,3-Dichlorobenzene	ND	1,700
1,4-Dichlorobenzene	ND	1,700
Benzyl alcohol	ND	1,700
1,2-Dichlorobenzene	ND	1,700
2-Methylphenol	ND	1,700
bis(2-Chloroisopropyl) ether	ND	1,700
4-Methylphenol	ND	1,700
N-Nitroso-di-n-propylamine	ND	1,700
Hexachloroethane	ND	1,700
Nitrobenzene	ND	1,700
Isophorone	ND	1,700
2-Nitrophenol	ND	3,300
2,4-Dimethylphenol	ND	1,700
Benzoic acid	ND	8,300
bis(2-Chloroethoxy)methane	ND	1,700
2,4-Dichlorophenol	ND	1,700
1,2,4-Trichlorobenzene	ND	1,700
Naphthalene	ND	330
4-Chloroaniline	ND	1,700
Hexachlorobutadiene	ND	1,700
4-Chloro-3-methylphenol	ND	1,700
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	3,300
2,4,6-Trichlorophenol	ND	1,700
2,4,5-Trichlorophenol	ND	1,700
2-Chloronaphthalene	ND	1,700
2-Nitroaniline	ND	3,300
Dimethylphthalate	ND	1,700
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	1,700
3-Nitroaniline	ND	3,300
Acenaphthene	ND	330
2,4-Dinitrophenol	ND	3,300
4-Nitrophenol	ND	3,300
Dibenzofuran	ND	1,700
2,4-Dinitrotoluene	ND	1,700
Diethylphthalate	ND	1,700
Fluorene	ND	330
4-Chlorophenyl-phenylether	ND	1,700
4-Nitroaniline	ND	3,300
4,6-Dinitro-2-methylphenol	ND	3,300
N-Nitrosodiphenylamine	ND	1,700
Azobenzene	ND	1,700
4-Bromophenyl-phenylether	ND	1,700
Hexachlorobenzene	ND	1,700
Pentachlorophenol	ND	3,300
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	1,700

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-36-6.5	Batch#: 172878
Lab ID:	226637-016	Sampled: 03/15/11
Matrix:	Soil	Received: 03/15/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/17/11
Diln Fac:	5.000	

Analyte	Result	RL
Fluoranthene	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	1,700
3,3'-Dichlorobenzidine	ND	3,300
Benzo(a)anthracene	ND	330
Chrysene	ND	330
bis(2-Ethylhexyl)phthalate	ND	1,700
Di-n-octylphthalate	ND	1,700
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(g,h,i)perylene	ND	330

Surrogate	%REC	Limits
2-Fluorophenol	59	35-120
Phenol-d5	61	33-120
2,4,6-Tribromophenol	64	30-120
Nitrobenzene-d5	49	43-120
2-Fluorobiphenyl	70	47-120
Terphenyl-d14	66	40-120

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-38-12.5	Batch#:	172878
Lab ID:	226637-027	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	ug/Kg	Prepared:	03/17/11
Basis:	as received	Analyzed:	03/17/11
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,600
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-38-12.5	Batch#: 172878
Lab ID:	226637-027	Sampled: 03/15/11
Matrix:	Soil	Received: 03/15/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/17/11
Diln Fac:	1.000	

Analyte	Result	RL
Fluoranthene	ND	66
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	67	35-120
Phenol-d5	70	33-120
2,4,6-Tribromophenol	77	30-120
Nitrobenzene-d5	60	43-120
2-Fluorobiphenyl	76	47-120
Terphenyl-d14	69	40-120

ND= Not Detected  
 RL= Reporting Limit



**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584221	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
Fluoranthene	ND	66

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584221	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
2-Fluorophenol	93	35-120
Phenol-d5	94	33-120
2,4,6-Tribromophenol	69	30-120
Nitrobenzene-d5	70	43-120
2-Fluorobiphenyl	83	47-120
Terphenyl-d14	78	40-120

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584222	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

<b>Analyte</b>	<b>Spiked</b>	<b>Result</b>	<b>%REC</b>	<b>Limits</b>
Phenol	2,665	2,184	82	39-120
2-Chlorophenol	2,665	2,258	85	44-120
1,4-Dichlorobenzene	2,665	2,091	78	46-120
N-Nitroso-di-n-propylamine	2,665	2,209	83	33-120
1,2,4-Trichlorobenzene	2,665	2,200	83	48-120
4-Chloro-3-methylphenol	2,665	2,099	79	47-120
Acenaphthene	999.3	812.8	81	47-120
4-Nitrophenol	2,665	1,947	73	35-120
2,4-Dinitrotoluene	2,665	2,152	81	46-120
Pentachlorophenol	2,665	2,104	79	25-120
Pyrene	999.3	791.9	79	45-120

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
2-Fluorophenol	84	35-120
Phenol-d5	85	33-120
2,4,6-Tribromophenol	86	30-120
Nitrobenzene-d5	68	43-120
2-Fluorobiphenyl	72	47-120
Terphenyl-d14	68	40-120

**Batch QC Report**

Semivolatile Organics by GC/MS		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#: 172878
MSS Lab ID:	226568-028	Sampled: 03/09/11
Matrix:	Soil	Received: 03/11/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/17/11
Diln Fac:	1.000	

Type: MS Lab ID: QC584223

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<14.82	2,649	2,087	79	41-120
2-Chlorophenol	<13.77	2,649	2,137	81	44-120
1,4-Dichlorobenzene	<7.231	2,649	1,923	73	46-120
N-Nitroso-di-n-propylamine	<15.00	2,649	2,123	80	36-120
1,2,4-Trichlorobenzene	<8.374	2,649	2,035	77	48-120
4-Chloro-3-methylphenol	<8.558	2,649	2,007	76	47-120
Acenaphthene	<6.608	993.4	779.0	78	45-120
4-Nitrophenol	<6.996	2,649	1,951	74	35-120
2,4-Dinitrotoluene	<8.230	2,649	2,130	80	44-120
Pentachlorophenol	<101.3	2,649	1,659	63	19-120
Pyrene	<7.224	993.4	777.8	78	41-120

Surrogate	%REC	Limits
2-Fluorophenol	76	35-120
Phenol-d5	80	33-120
2,4,6-Tribromophenol	77	30-120
Nitrobenzene-d5	63	43-120
2-Fluorobiphenyl	68	47-120
Terphenyl-d14	67	40-120

Type: MSD Lab ID: QC584224

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,642	2,170	82	41-120	4	45
2-Chlorophenol	2,642	1,934	73	44-120	10	44
1,4-Dichlorobenzene	2,642	1,632	62	46-120	16	41
N-Nitroso-di-n-propylamine	2,642	2,418	92	36-120	13	50
1,2,4-Trichlorobenzene	2,642	1,566	59	48-120	26	39
4-Chloro-3-methylphenol	2,642	1,796	68	47-120	11	40
Acenaphthene	990.8	682.8	69	45-120	13	39
4-Nitrophenol	2,642	1,685	64	35-120	14	57
2,4-Dinitrotoluene	2,642	1,847	70	44-120	14	42
Pentachlorophenol	2,642	1,543	58	19-120	7	66
Pyrene	990.8	668.6	67	41-120	15	52

Surrogate	%REC	Limits
2-Fluorophenol	81	35-120
Phenol-d5	87	33-120
2,4,6-Tribromophenol	70	30-120
Nitrobenzene-d5	55	43-120
2-Fluorobiphenyl	61	47-120
Terphenyl-d14	58	40-120

RPD= Relative Percent Difference

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-41-2.5	Basis:	as received
Lab ID:	226637-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	9.1	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Arsenic	5.3	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Barium	300	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Beryllium	0.45	0.10	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cadmium	0.39	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Chromium	46	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cobalt	9.7	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Copper	190	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Lead	200	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Mercury	0.84	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	0.75	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Nickel	52	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Silver	0.39	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Zinc	300	1.0	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-41-6.5	Basis:	as received
Lab ID:	226637-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.5	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Arsenic	6.4	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Barium	380	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Beryllium	0.59	0.10	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Chromium	33	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cobalt	9.9	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Copper	25	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Lead	29	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Mercury	0.43	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	0.73	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Nickel	35	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Vanadium	34	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Zinc	58	1.0	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-41-12.5	Basis:	as received
Lab ID:	226637-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.1	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Arsenic	2.5	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Barium	210	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Beryllium	0.47	0.10	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Chromium	17	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cobalt	7.6	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Copper	17	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Lead	18	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Mercury	0.15	0.021	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	1.2	0.25	172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	20	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Vanadium	33	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Zinc	57	1.0	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-15-2.5	Basis:	as received
Lab ID:	226637-004	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	15	0.50	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Arsenic	12	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Barium	260	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Beryllium	0.38	0.10	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cadmium	3.8	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Chromium	39	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cobalt	9.9	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Copper	230	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Lead	260	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Mercury	0.34	0.021	1.000		172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	1.4	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Nickel	50	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Silver	0.29	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Vanadium	33	0.25	1.000		172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Zinc	500	9.3	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-15-4.5	Basis:	as received
Lab ID:	226637-005	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	13	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Arsenic	3.8	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Barium	160	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Beryllium	0.21	0.10	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cadmium	1.5	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Chromium	26	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cobalt	5.7	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Copper	120	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Lead	250	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Mercury	0.16	0.021	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	1.1	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Nickel	22	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Silver	0.80	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Vanadium	15	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Zinc	260	1.0	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-15-12.5	Basis:	as received
Lab ID:	226637-006	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.1	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Arsenic	1.4	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Barium	65	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Beryllium	0.23	0.10	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Chromium	20	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cobalt	4.8	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Copper	29	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Lead	20	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Mercury	0.081	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	0.66	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Nickel	25	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Vanadium	17	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Zinc	82	1.0	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-40-2.5	Basis:	as received
Lab ID:	226637-007	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.2	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Arsenic	4.9	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Barium	280	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Beryllium	0.49	0.10	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Chromium	28	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Cobalt	7.2	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Copper	26	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Lead	40	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Mercury	0.33	0.020	172921	03/18/11	03/18/11	METHOD	EPA 7471A
Molybdenum	0.61	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Nickel	29	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Vanadium	28	0.25	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B
Zinc	89	1.0	172903	03/17/11	03/22/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-40-7.5	Basis:	as received
Lab ID:	226637-008	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.6	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	2.2	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	130	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.53	0.10	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	49	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	11	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	16	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	5.0	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.049	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.42	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	70	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	39	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	28	1.0	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-40-12.5	Basis:	as received
Lab ID:	226637-009	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.1	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	5.9	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	69	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.29	0.10	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	0.69	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	36	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	6.2	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	14	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	14	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.14	0.020	1.000		172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.69	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	28	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	31	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	840	9.0	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-14-2.5	Basis:	as received
Lab ID:	226637-010	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	12	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	17	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	270	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.46	0.10	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	0.86	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	58	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	13	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	150	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	160	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.40	0.021	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	1.1	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	57	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	40	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	350	1.0	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-37-2.5	Basis:	as received
Lab ID:	226637-011	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.6	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	4.7	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	210	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.46	0.10	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	28	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	8.7	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	37	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	72	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.34	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.55	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	37	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	28	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	190	1.0	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-37-7.5	Basis:	as received
Lab ID:	226637-012	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.4	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	5.6	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	180	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.59	0.10	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	39	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	11	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	27	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	82	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.071	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.73	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	41	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	50	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	79	1.0	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-37-12.5	Basis:	as received
Lab ID:	226637-013	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	15	0.50	1.000		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	7.0	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	390	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	1.2	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	59	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	7.5	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	210	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	1,500	2.2	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	ND	0.020	1.000		172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	2.0	0.25	1.000		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	35	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	42	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	1,300	8.8	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-14-7.5	Basis:	as received
Lab ID:	226637-014	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	20	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	12	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	210	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.37	0.10	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	0.83	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	50	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	9.7	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	730	2.4	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	450	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	7.3	0.18	10.00		172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	1.0	0.25	1.000		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	51	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	0.56	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	35	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	960	9.4	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-36-2.5	Basis:	as received
Lab ID:	226637-015	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	11	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	3.6	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	180	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.46	0.10	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	38	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	13	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	68	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	86	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.28	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.76	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	42	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	46	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	180	1.0	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-36-6.5	Basis:	as received
Lab ID:	226637-016	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.0	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	5.6	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	190	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	0.39	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	31	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	7.2	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	55	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	88	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.24	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.84	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	33	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	23	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	240	1.0	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-36-12.5	Basis:	as received
Lab ID:	226637-017	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	15	0.50	1.000		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	24	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	130	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.30	0.10	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cadmium	6.1	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	64	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	8.5	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	88	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	160	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.76	0.020	1.000		172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	2.6	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	42	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	1.5	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	32	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	2,600	9.2	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-10-2.5	Basis:	as received
Lab ID:	226637-018	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	13	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	19	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	680	2.5	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.41	0.10	1.000		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	1.0	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	54	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	16	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	430	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	260	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.93	0.021	1.000		172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	6.4	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	69	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	0.47	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	41	0.25	1.000		172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	780	9.8	10.00		172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-10-5.5	Basis:	as received
Lab ID:	226637-019	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.1	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	3.5	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	88	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.34	0.10	172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	28	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	6.8	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	11	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	4.1	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.034	0.021	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.63	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	31	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	25	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	30	1.0	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-10-12.5	Basis:	as received
Lab ID:	226637-020	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	11	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Arsenic	5.1	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Barium	89	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Beryllium	0.42	0.10	172903	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Chromium	73	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Cobalt	11	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Copper	24	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Lead	37	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Mercury	0.21	0.021	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.53	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Nickel	61	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Vanadium	53	0.25	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B
Zinc	90	1.0	172903	03/17/11	03/23/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-13-2.5	Basis:	as received
Lab ID:	226637-021	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	4.2	0.50	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Arsenic	28	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Barium	230	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Beryllium	0.32	0.10	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Cadmium	1.0	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Chromium	34	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Cobalt	9.4	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Copper	190	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Lead	230	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Mercury	0.37	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	1.1	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Nickel	39	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Silver	0.26	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Vanadium	33	0.25	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B
Zinc	340	1.0	172905	03/17/11	03/18/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-39-2.5	Basis:	as received
Lab ID:	226637-022	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.9	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	12	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Barium	62	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	21	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	7.8	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	13	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	3.1	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.060	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	1.4	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	32	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	1.5	0.50	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	24	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	33	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-39-5.0	Basis:	as received
Lab ID:	226637-023	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.1	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	2.6	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	220	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.53	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	0.28	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	38	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	8.0	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	21	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	19	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.20	0.022	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.81	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	37	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	1.4	0.50	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	37	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	60	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-39-12.5	Basis:	as received
Lab ID:	226637-024	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.2	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	4.4	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	130	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.36	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	0.44	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	35	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	7.2	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	12	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	6.0	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.040	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	1.0	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	31	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	39	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	38	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-38-2.5	Basis:	as received
Lab ID:	226637-025	Sampled:	03/15/11
Matrix:	Soil	Received:	03/15/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.3	0.50	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	9.8	0.25	1.000		172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	310	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.30	0.10	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	0.94	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	28	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	6.3	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	67	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	740	2.3	10.00		172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.51	0.020	1.000		172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.98	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	27	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	0.37	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	27	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	420	1.0	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-38-7.5	Basis:	as received
Lab ID:	226637-026	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	26	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	4.5	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	200	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.30	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	1.1	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	38	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	13	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	44	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	240	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	ND	0.020	172975	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	2.0	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	43	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	0.30	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	37	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	420	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226637	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-38-12.5	Basis:	as received
Lab ID:	226637-027	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/15/11
Units:	mg/Kg	Received:	03/15/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.6	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	6.6	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	110	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.34	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	3.4	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	55	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	14	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	17	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	9.0	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.040	0.021	172984	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	1.0	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	54	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	47	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	57	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584324	Batch#: 172903
Matrix:	Soil	Prepared: 03/17/11
Units:	mg/Kg	Analyzed: 03/22/11

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit



**Batch QC Report**

California Title 22 Metals			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	241.082.02.001	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	172903
Units:	mg/Kg	Prepared:	03/17/11
Diln Fac:	1.000	Analyzed:	03/22/11

Type: BS Lab ID: QC584325

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.5	101	80-120
Arsenic	50.00	49.68	99	80-120
Barium	100.0	101.0	101	80-120
Beryllium	2.500	2.768	111	80-120
Cadmium	10.00	9.741	97	80-120
Chromium	100.0	99.08	99	80-120
Cobalt	25.00	24.71	99	80-120
Copper	12.50	12.55	100	78-120
Lead	100.0	95.42	95	80-120
Molybdenum	20.00	19.75	99	80-120
Nickel	25.00	24.12	96	80-120
Selenium	50.00	49.07	98	80-120
Silver	10.00	9.816	98	80-120
Thallium	50.00	49.28	99	80-120
Vanadium	25.00	25.08	100	80-120
Zinc	25.00	24.27	97	80-120

Type: BSD Lab ID: QC584326

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	98.44	98	80-120	3	20
Arsenic	50.00	47.96	96	80-120	4	20
Barium	100.0	98.07	98	80-120	3	20
Beryllium	2.500	2.686	107	80-120	3	20
Cadmium	10.00	9.424	94	80-120	3	20
Chromium	100.0	96.95	97	80-120	2	20
Cobalt	25.00	23.96	96	80-120	3	20
Copper	12.50	12.19	97	78-120	3	20
Lead	100.0	92.89	93	80-120	3	20
Molybdenum	20.00	19.03	95	80-120	4	20
Nickel	25.00	23.34	93	80-120	3	20
Selenium	50.00	47.71	95	80-120	3	20
Silver	10.00	9.511	95	80-120	3	20
Thallium	50.00	47.83	96	80-120	3	20
Vanadium	25.00	24.61	98	80-120	2	20
Zinc	25.00	23.59	94	80-120	3	20

RPD= Relative Percent Difference

**Batch QC Report**

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Field ID:	SB-41-2.5	Batch#: 172903
MSS Lab ID:	226637-001	Sampled: 03/15/11
Matrix:	Soil	Received: 03/15/11
Units:	mg/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/22/11
Diln Fac:	1.000	

Type: MS Lab ID: QC584327

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	9.108	98.04	49.49	41	7-120
Arsenic	5.269	49.02	51.75	95	66-122
Barium	297.2	98.04	334.5	38 *	51-135
Beryllium	0.4462	2.451	3.106	109	73-120
Cadmium	0.3900	9.804	9.295	91	64-120
Chromium	45.75	98.04	133.9	90	57-122
Cobalt	9.679	24.51	32.59	93	53-122
Copper	185.7	12.25	196.1	86 NM	33-157
Lead	197.2	98.04	255.2	59	52-123
Molybdenum	0.7478	19.61	17.73	87	66-120
Nickel	52.08	24.51	71.41	79	42-137
Selenium	<0.1367	49.02	43.13	88	64-120
Silver	0.3855	9.804	9.771	96	65-120
Thallium	<0.1524	49.02	43.79	89	55-120
Vanadium	36.21	24.51	56.78	84	49-139
Zinc	296.2	24.51	320.5	99 NM	32-155

Type: MSD Lab ID: QC584328

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	92.59	47.95	42	7-120	2	44
Arsenic	46.30	48.59	94	66-122	1	35
Barium	92.59	305.7	9 *	51-135	8	42
Beryllium	2.315	2.911	106	73-120	2	22
Cadmium	9.259	8.859	91	64-120	1	36
Chromium	92.59	145.3	108	57-122	12	34
Cobalt	23.15	31.90	96	53-122	2	32
Copper	11.57	190.8	45 NM	33-157	2	41
Lead	92.59	300.3	111	52-123	18	41
Molybdenum	18.52	17.01	88	66-120	1	20
Nickel	23.15	73.91	94	42-137	5	36
Selenium	46.30	40.05	86	64-120	2	28
Silver	9.259	9.035	93	65-120	2	27
Thallium	46.30	39.41	85	55-120	5	27
Vanadium	23.15	62.04	112	49-139	11	32
Zinc	23.15	350.0	233 NM	32-155	9	45

\*= Value outside of QC limits; see narrative

NM= Not Meaningful: Sample concentration > 4X spike concentration

RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584338	Batch#: 172905
Matrix:	Soil	Prepared: 03/17/11
Units:	mg/Kg	Analyzed: 03/18/11

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Matrix:	Soil	Batch#: 172905
Units:	mg/Kg	Prepared: 03/17/11
Diln Fac:	1.000	Analyzed: 03/18/11

Type: BS Lab ID: QC584339

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.3	101	80-120
Arsenic	50.00	52.09	104	80-120
Barium	100.0	98.06	98	80-120
Beryllium	2.500	2.500	100	80-120
Cadmium	10.00	10.21	102	80-120
Chromium	100.0	97.21	97	80-120
Cobalt	25.00	24.08	96	80-120
Copper	12.50	12.61	101	78-120
Lead	100.0	95.85	96	80-120
Molybdenum	20.00	20.29	101	80-120
Nickel	25.00	24.29	97	80-120
Selenium	50.00	47.84	96	80-120
Silver	10.00	9.774	98	80-120
Thallium	50.00	48.96	98	80-120
Vanadium	25.00	24.65	99	80-120
Zinc	25.00	24.72	99	80-120

Type: BSD Lab ID: QC584340

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	94.48	94	80-120	7	20
Arsenic	50.00	47.91	96	80-120	8	20
Barium	100.0	90.79	91	80-120	8	20
Beryllium	2.500	2.321	93	80-120	7	20
Cadmium	10.00	9.492	95	80-120	7	20
Chromium	100.0	89.83	90	80-120	8	20
Cobalt	25.00	22.25	89	80-120	8	20
Copper	12.50	11.92	95	78-120	6	20
Lead	100.0	89.22	89	80-120	7	20
Molybdenum	20.00	19.03	95	80-120	6	20
Nickel	25.00	22.35	89	80-120	8	20
Selenium	50.00	44.31	89	80-120	8	20
Silver	10.00	9.032	90	80-120	8	20
Thallium	50.00	45.69	91	80-120	7	20
Vanadium	25.00	22.82	91	80-120	8	20
Zinc	25.00	23.03	92	80-120	7	20

RPD= Relative Percent Difference

**Batch QC Report**

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Field ID:	SB-13-2.5	Batch#: 172905
MSS Lab ID:	226637-021	Sampled: 03/15/11
Matrix:	Soil	Received: 03/15/11
Units:	mg/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/18/11
Diln Fac:	1.000	

Type: MS Lab ID: QC584341

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	4.240	91.74	41.75	41	7-120
Arsenic	28.35	45.87	63.05	76	66-122
Barium	234.5	91.74	357.6	134	51-135
Beryllium	0.3233	2.294	2.457	93	73-120
Cadmium	0.9998	9.174	9.540	93	64-120
Chromium	33.58	91.74	116.1	90	57-122
Cobalt	9.389	22.94	29.02	86	53-122
Copper	189.7	11.47	257.9	595 NM	33-157
Lead	232.1	91.74	328.0	105	52-123
Molybdenum	1.133	18.35	16.55	84	66-120
Nickel	38.72	22.94	63.96	110	42-137
Selenium	<0.1393	45.87	39.01	85	64-120
Silver	0.2558	9.174	8.605	91	65-120
Thallium	<0.1553	45.87	37.11	81	55-120
Vanadium	32.52	22.94	55.75	101	49-139
Zinc	337.5	22.94	460.2 >LR	535 NM	32-155

Type: MSD Lab ID: QC584342

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	99.01	53.78	50	7-120	18	44
Arsenic	49.50	72.26	89	66-122	9	35
Barium	99.01	351.6	118	51-135	4	42
Beryllium	2.475	2.669	95	73-120	2	22
Cadmium	9.901	10.02	91	64-120	2	36
Chromium	99.01	125.9	93	57-122	3	34
Cobalt	24.75	30.66	86	53-122	0	32
Copper	12.38	178.5	-90 NM	33-157	37	41
Lead	99.01	372.5	142 *	52-123	10	41
Molybdenum	19.80	18.57	88	66-120	4	20
Nickel	24.75	62.47	96	42-137	5	36
Selenium	49.50	43.12	87	64-120	2	28
Silver	9.901	9.997	98	65-120	8	27
Thallium	49.50	41.72	84	55-120	4	27
Vanadium	24.75	56.50	97	49-139	2	32
Zinc	24.75	360.1	91 NM	32-155	NC	45

\*= Value outside of QC limits; see narrative  
 NC= Not Calculated  
 NM= Not Meaningful: Sample concentration > 4X spike concentration  
 >LR= Response exceeds instrument's linear range  
 RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	172921
Lab ID:	QC584393	Prepared:	03/18/11
Matrix:	Soil	Analyzed:	03/18/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected  
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Batch#: 172921
Matrix:	Soil	Prepared: 03/18/11
Units:	mg/Kg	Analyzed: 03/18/11
Diln Fac:	1.000	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584394	0.2500	0.2610	104	80-120		
BSD	QC584395	0.2500	0.2640	106	80-120	1	20

RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Diln Fac: 1.000
Field ID:	SB-9-2.5	Batch#: 172921
MSS Lab ID:	226605-001	Sampled: 03/14/11
Matrix:	Soil	Received: 03/14/11
Units:	mg/Kg	Prepared: 03/18/11
Basis:	as received	Analyzed: 03/18/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584396	0.3191	0.2315	0.4435	54 *	72-124		
MSD	QC584397		0.2404	0.5260	86	72-124	15	31

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



Batch QC Report

California Title 22 Metals			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	172975
Lab ID:	QC584588	Prepared:	03/21/11
Matrix:	Soil	Analyzed:	03/21/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected  
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Batch#: 172975
Matrix:	Soil	Prepared: 03/21/11
Units:	mg/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584589	0.2500	0.2620	105	80-120		
BSD	QC584590	0.2500	0.2640	106	80-120	1	20

RPD= Relative Percent Difference

**Batch QC Report**

<b>California Title 22 Metals</b>		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Diln Fac: 1.000
Field ID:	SB-36-2.5	Batch#: 172975
MSS Lab ID:	226637-015	Sampled: 03/15/11
Matrix:	Soil	Received: 03/15/11
Units:	mg/Kg	Prepared: 03/21/11
Basis:	as received	Analyzed: 03/21/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584591	0.2827	0.2551	0.6408	140 *	72-124		
MSD	QC584592		0.2500	0.4940	85	72-124	25	31

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	172984
Lab ID:	QC584617	Prepared:	03/21/11
Matrix:	Soil	Analyzed:	03/21/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

California Title 22 Metals		
Lab #:	226637	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Batch#: 172984
Matrix:	Soil	Prepared: 03/21/11
Units:	mg/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584618	0.2500	0.2810	112	80-120		
BSD	QC584619	0.2500	0.2780	111	80-120	1	20

RPD= Relative Percent Difference

**Batch QC Report**

<b>California Title 22 Metals</b>			
Lab #:	226637	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	SB-25-2.5	Batch#:	172984
MSS Lab ID:	226688-001	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	mg/Kg	Prepared:	03/21/11
Basis:	as received	Analyzed:	03/21/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584620	0.5235	0.2551	0.8000	108	72-124		
MSD	QC584621		0.2660	0.9968	178 *	72-124	21	31

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



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





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

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

**Laboratory Job Number 226644  
ANALYTICAL REPORT**

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

Project : 241.082.02.001  
Location : 64th & Christie Emeryville, CA  
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
TB-1	226644-001
GW-10	226644-002
GW-11	226644-003
GW-12	226644-004
GW-13	226644-005

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

Signature:   
Project Manager

Date: 03/28/2011

NELAP # 01107CA



### CASE NARRATIVE

Laboratory number: 226644  
Client: PES Environmental, Inc.  
Project: 241.082.02.001  
Location: 64th & Christie Emeryville, CA  
Request Date: 03/15/11  
Samples Received: 03/15/11

This data package contains sample and QC results for five water samples, requested for the above referenced project on 03/15/11. The samples were received cold and intact.

**TPH-Extractables by GC (EPA 8015B):**

No analytical problems were encountered.

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

High surrogate recovery was observed for 1,2-dichloroethane-d4 in the method blank for batch 173060; no target analytes were detected in the sample. High surrogate recoveries were observed for bromofluorobenzene in the method blank/BS/BSB for batch 173060. No other analytical problems were encountered.

**Metals (EPA 6010B and EPA 7470A):**

No analytical problems were encountered.

# BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE  
 SAN JOSE, CALIFORNIA 95112-1105  
 FAX (408) 573-7771  
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB Entech DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER
- RWQCB REGION \_\_\_\_\_

CHAIN OF CUSTODY  
 BTS # 110315-PH1

CLIENT PES

SITE 64th and Christie Ave.  
 Emeryville, CA

C = COMPOSITE ALL CONTAINERS

TPH - G & VOCs (8260B)	TPH-D / MO (8015m) w/ Silica Gel Cleanup	TPH-D / MO (8015m) with out Silica Gel Cleanup	Dissolved Title 22 Metals (6010B) Field Filtered
X			
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X

SPECIAL INSTRUCTIONS

Invoice and Report to : PES  
 Attn: Chris Baldassari cbaldassari@pesenv.com

Project #

SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H <sub>2</sub> O	TOTAL	CONTAINERS	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1 TB-1	3/15	0900	W	3	HCL VOA				
2 GW-10		0954		7	Various				
3 GW-11		1115		7					
4 GW-12		1312		7					
5 GW-13		1510		7					

SAMPLING COMPLETED 3/15/11 1536  
 SAMPLING PERFORMED BY Patrick Hamer  
 RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY [Signature] DATE 3/15/11 TIME 1605 RECEIVED BY [Signature] DATE 3/15/11 TIME 1605

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_

**COOLER RECEIPT CHECKLIST**



Curtis & Tompkins, Ltd.

Login # 221044 Date Received 3/15/11 Number of coolers 1  
 Client PES Project 6th and Christie Ave  
 Date Opened 3/15/11 By (print) R. Paris (sign) [Signature]  
 Date Logged in 3/16/11 By (print) ↓ (sign) [Signature]

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

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

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

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

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

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

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

7. Temperature documentation:  
 Type of ice used:  Wet  Blue/Gel  None Temp(°C) 12.5  
 Samples Received on ice & cold without a temperature blank  
 Samples received on ice directly from the field. Cooling process had begun

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

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

10. Are samples in the appropriate containers for indicated tests? \_\_\_\_\_  YES NO

11. Are sample labels present, in good condition and complete? \_\_\_\_\_  YES NO

12. Do the sample labels agree with custody papers? \_\_\_\_\_  YES NO

13. Was sufficient amount of sample sent for tests requested? \_\_\_\_\_  YES NO

14. Are the samples appropriately preserved? \_\_\_\_\_  YES NO N/A

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

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

COMMENTS  
-002-006 rec'd 4 VOAs each sample  
-001 rec'd 1 VOA → RP

220644

**Subject:** Fw: 241.082.02.001 - Groundwater samples from 6340 and 6390 Christie Ave., Emeryville  
**From:** "Desiree Tetrault" <desiree.tetrault@ctberk.com>  
**Date:** Wed, 16 Mar 2011 10:44:31 -0700  
**To:** <roszette.panis@ctberk.com>, <marte.villanueva@ctberk.com>

Please add Gravity separation (including the comment for TEHM) for the samples we receive from PES (a Blaine Tech COC) for the groundwater samples from 64th and Christie in Emeryville. I believe we should see the samples by the end of the day today.

Also, please use this email and add it to the COC as confirmation.

Thank you!

----- Original Message -----

**From:** Chris Baldassari  
**To:** desiree.tetrault@ctberk.com  
**Sent:** Wednesday, March 16, 2011 10:30 AM  
**Subject:** 241.082.02.001 - Groundwater samples from 6340 and 6390 Christie Ave., Emeryville

Desiree,

As we discussed, please provide Zemo gravity separation for groundwater samples that we are submitting to C&T from the above-referenced site (via Blaine Tech). Please call me with any questions.

Thanks,  
Chris

Christopher J. Baldassari  
Senior Geologist  
**PES Environmental, Inc.**  
1682 Novato Boulevard, Suite 100  
Novato, CA 94947  
415.899.1600 *office*  
415.497.2731 *cell*  
415.899.1601 *fax*  
[cbaldassari@pesenv.com](mailto:cbaldassari@pesenv.com)

Curtis & Tompkins Sample Preservation for 226644

Sample	pH: <2	>12	Other
-002a	<input type="checkbox"/>	<input type="checkbox"/>	_____
b	<input type="checkbox"/>	<input type="checkbox"/>	_____
c	<input type="checkbox"/>	<input type="checkbox"/>	_____
d	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
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g	<input type="checkbox"/>	<input type="checkbox"/>	_____
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e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	_____
g	<input type="checkbox"/>	<input type="checkbox"/>	_____
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d	<input type="checkbox"/>	<input type="checkbox"/>	_____
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
f	<input type="checkbox"/>	<input type="checkbox"/>	_____
g	<input type="checkbox"/>	<input type="checkbox"/>	_____

Analyst: *Randy*  
 Date: 3/16/11  
 Page 1 of 1

Total Extractable Hydrocarbons		
Lab #:	226644	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3520C
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Water	Sampled: 03/15/11
Units:	ug/L	Received: 03/15/11
Diln Fac:	1.000	Prepared: 03/21/11
Batch#:	172999	

Field ID: GW-10  
 Type: SAMPLE  
 Lab ID: 226644-002

Analyzed: 03/22/11  
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	4,900 Y	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	4,800	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	99	60-129
o-Terphenyl (SGCU)	87	60-129

Field ID: GW-11  
 Type: SAMPLE  
 Lab ID: 226644-003

Analyzed: 03/22/11  
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	5,900 Y	50
Diesel C10-C24 (SGCU)	130 Y	50
Motor Oil C24-C36	6,600	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	97	60-129
o-Terphenyl (SGCU)	105	60-129

Field ID: GW-12  
 Type: SAMPLE  
 Lab ID: 226644-004

Analyzed: 03/22/11  
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	10,000 Y	50
Diesel C10-C24 (SGCU)	130 Y	50
Motor Oil C24-C36	11,000	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	102	60-129
o-Terphenyl (SGCU)	95	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit  
 SGCU= Silica gel cleanup



Total Extractable Hydrocarbons			
Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3520C
Project#:	241.082.02.001	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	03/15/11
Units:	ug/L	Received:	03/15/11
Diln Fac:	1.000	Prepared:	03/21/11
Batch#:	172999		

Field ID: GW-13  
Type: SAMPLE

Lab ID: 226644-005  
Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	3,300 Y	50	03/22/11
Diesel C10-C24 (SGCU)	120 Y	50	03/23/11
Motor Oil C24-C36	3,500	300	03/22/11
Motor Oil C24-C36 (SGCU)	ND	300	03/23/11

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	96	60-129	03/22/11
o-Terphenyl (SGCU)	90	60-129	03/23/11

Type: BLANK  
Lab ID: QC584678

Analyzed: 03/22/11  
Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	94	60-129
o-Terphenyl (SGCU)	102	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit  
 SGCU= Silica gel cleanup

## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226644	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3520C
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Water	Batch#: 172999
Units:	ug/L	Prepared: 03/21/11
Diln Fac:	1.000	Analyzed: 03/22/11

Type: BS Cleanup Method: EPA 3630C  
 Lab ID: QC584679

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,124	85	53-128
Diesel C10-C24 (SGCU)	2,500	2,057	82	53-128

Surrogate	%REC	Limits
o-Terphenyl	94	60-129
o-Terphenyl (SGCU)	90	60-129

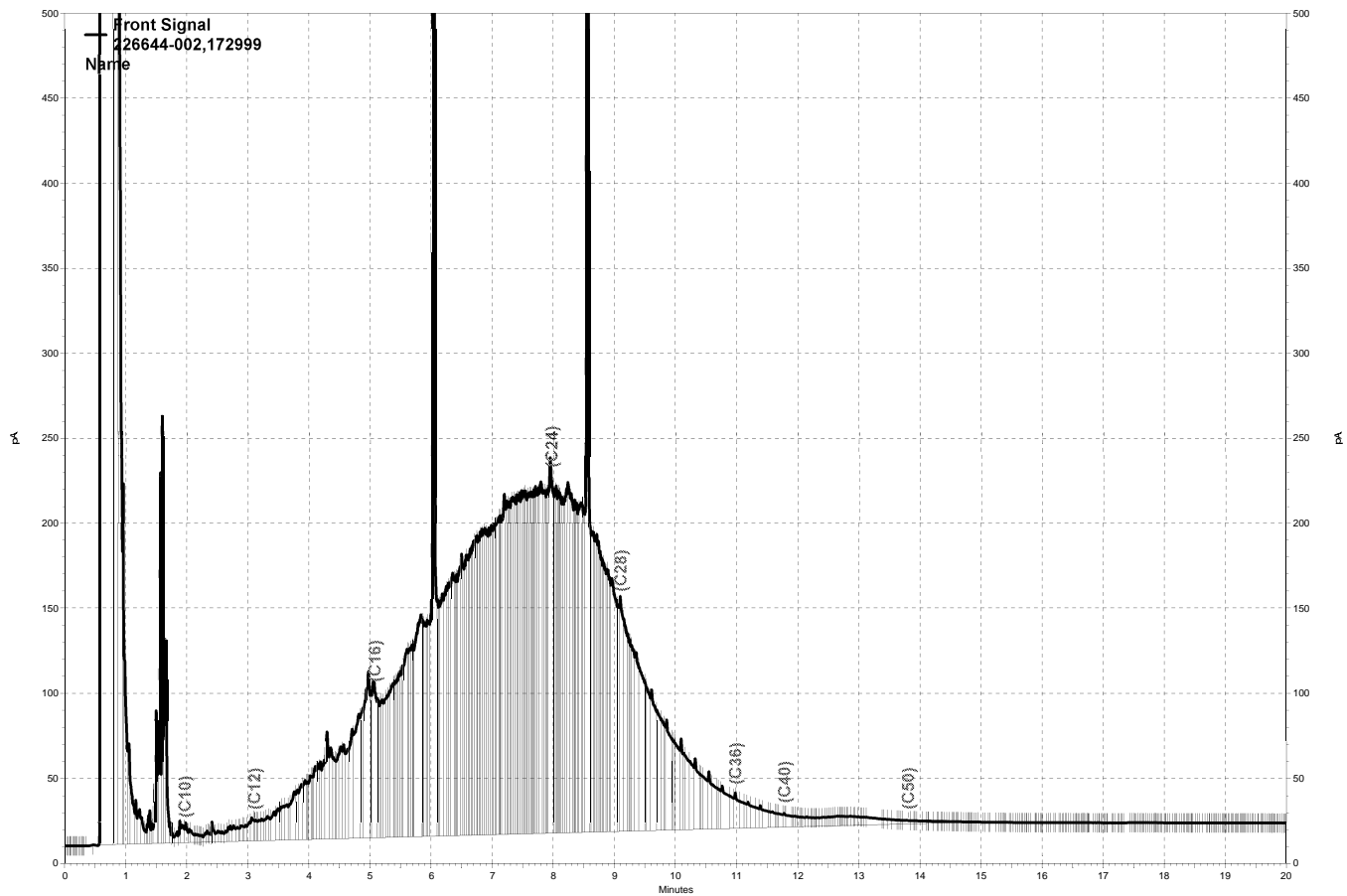
Type: BSD Cleanup Method: EPA 3630C  
 Lab ID: QC584680

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,093	84	53-128	1	48
Diesel C10-C24 (SGCU)	2,500	1,762	70	53-128	15	48

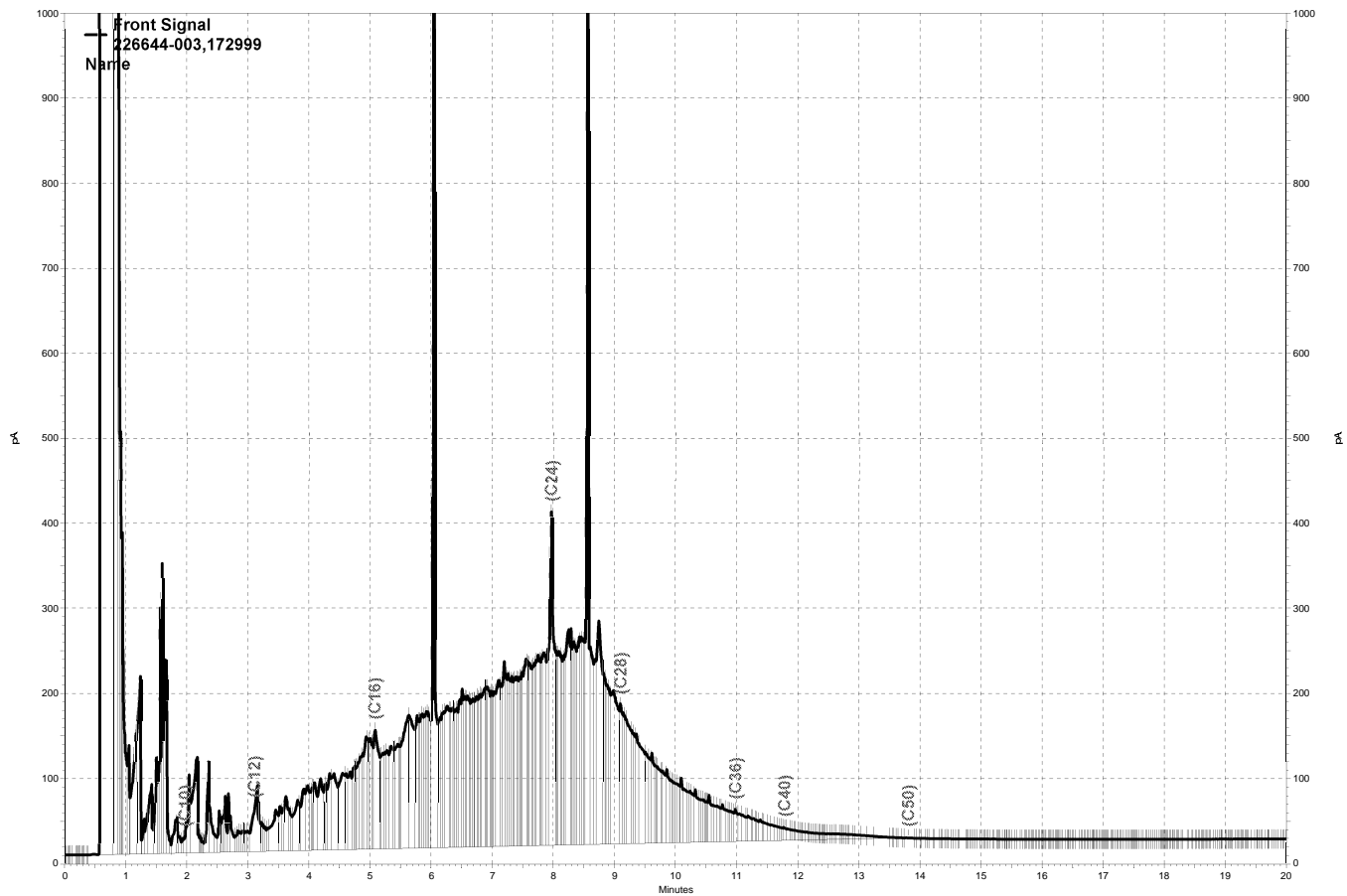
Surrogate	%REC	Limits
o-Terphenyl	93	60-129
o-Terphenyl (SGCU)	79	60-129

RPD= Relative Percent Difference  
 SGCU= Silica gel cleanup

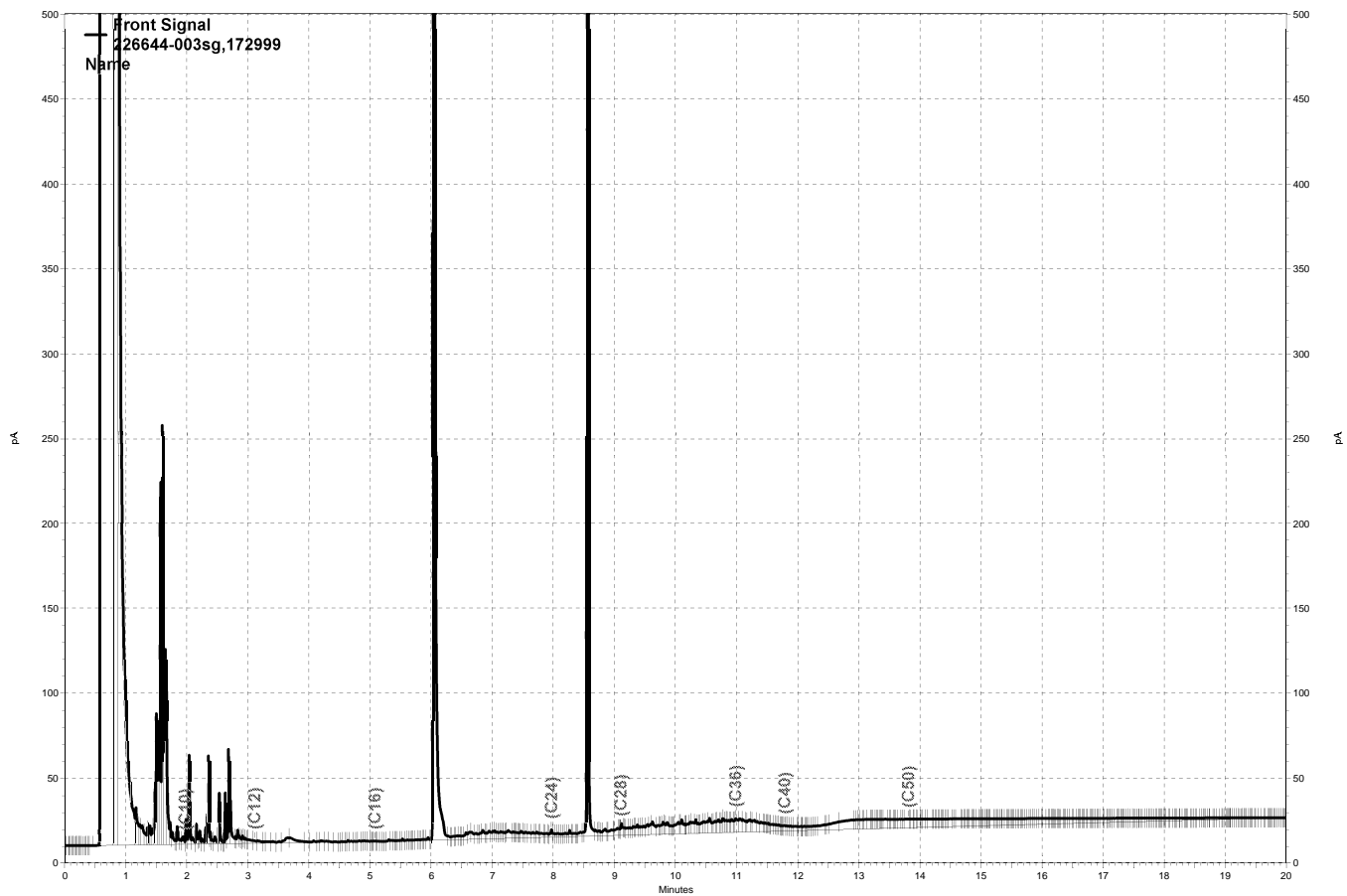




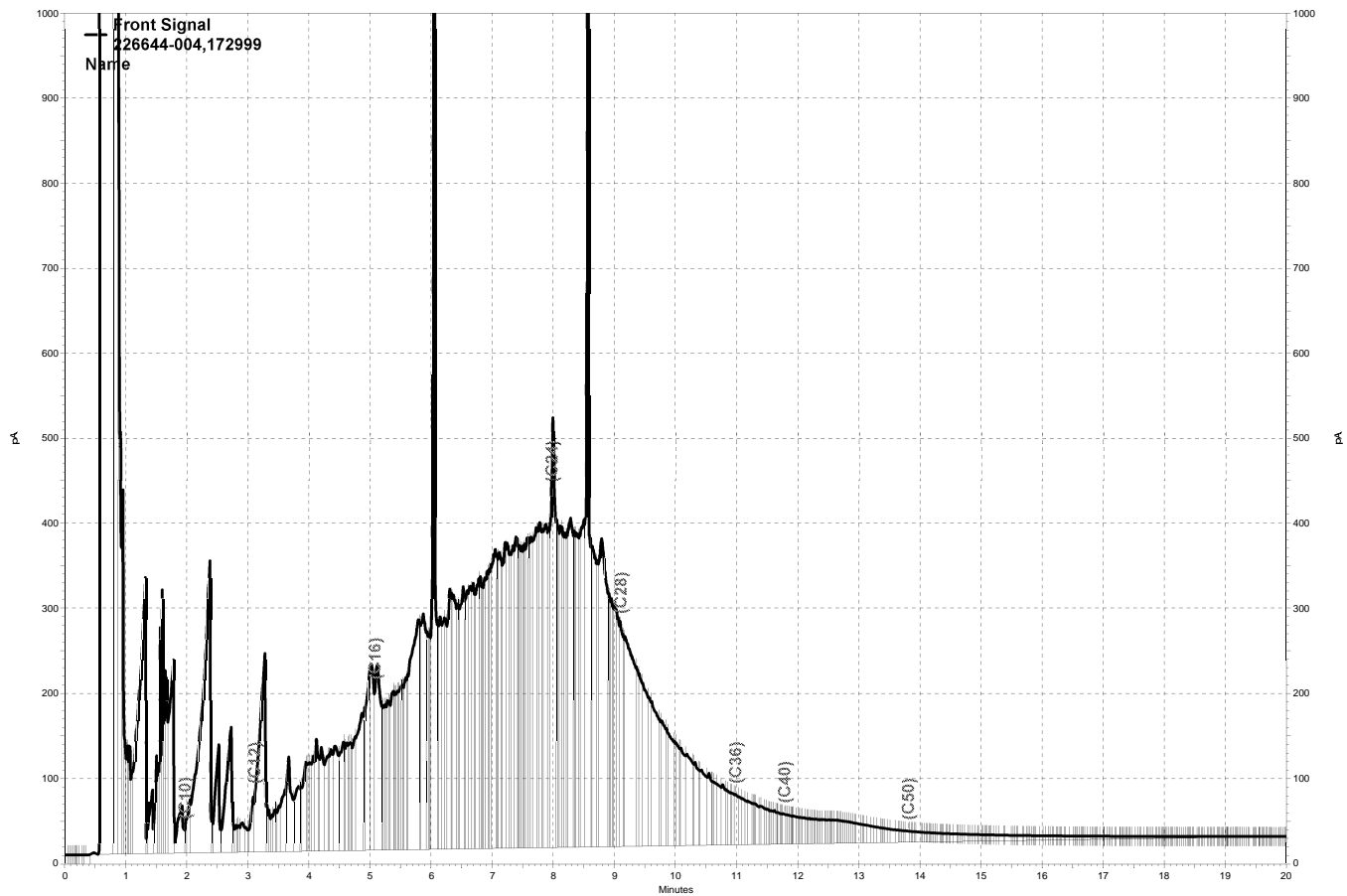
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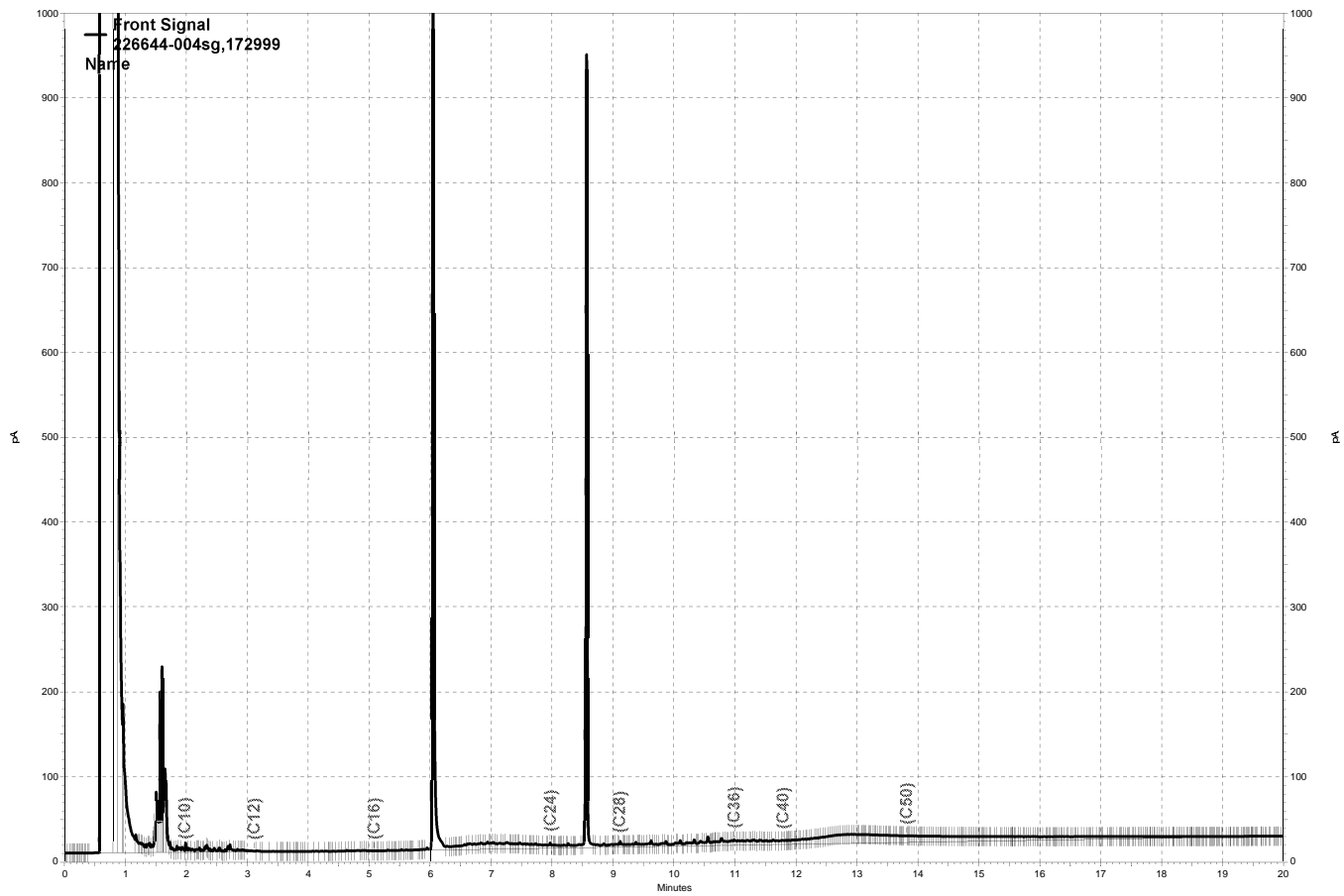
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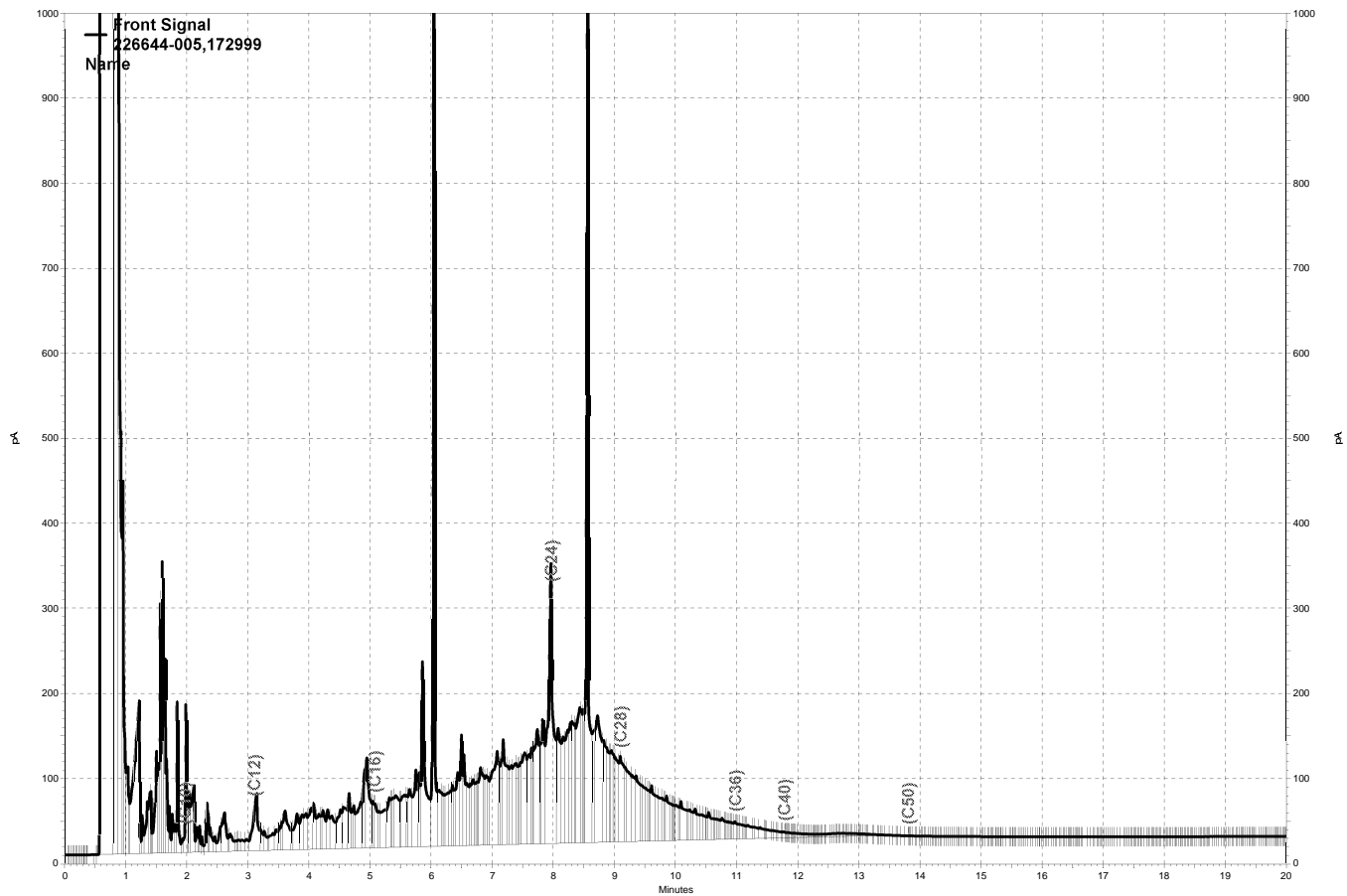
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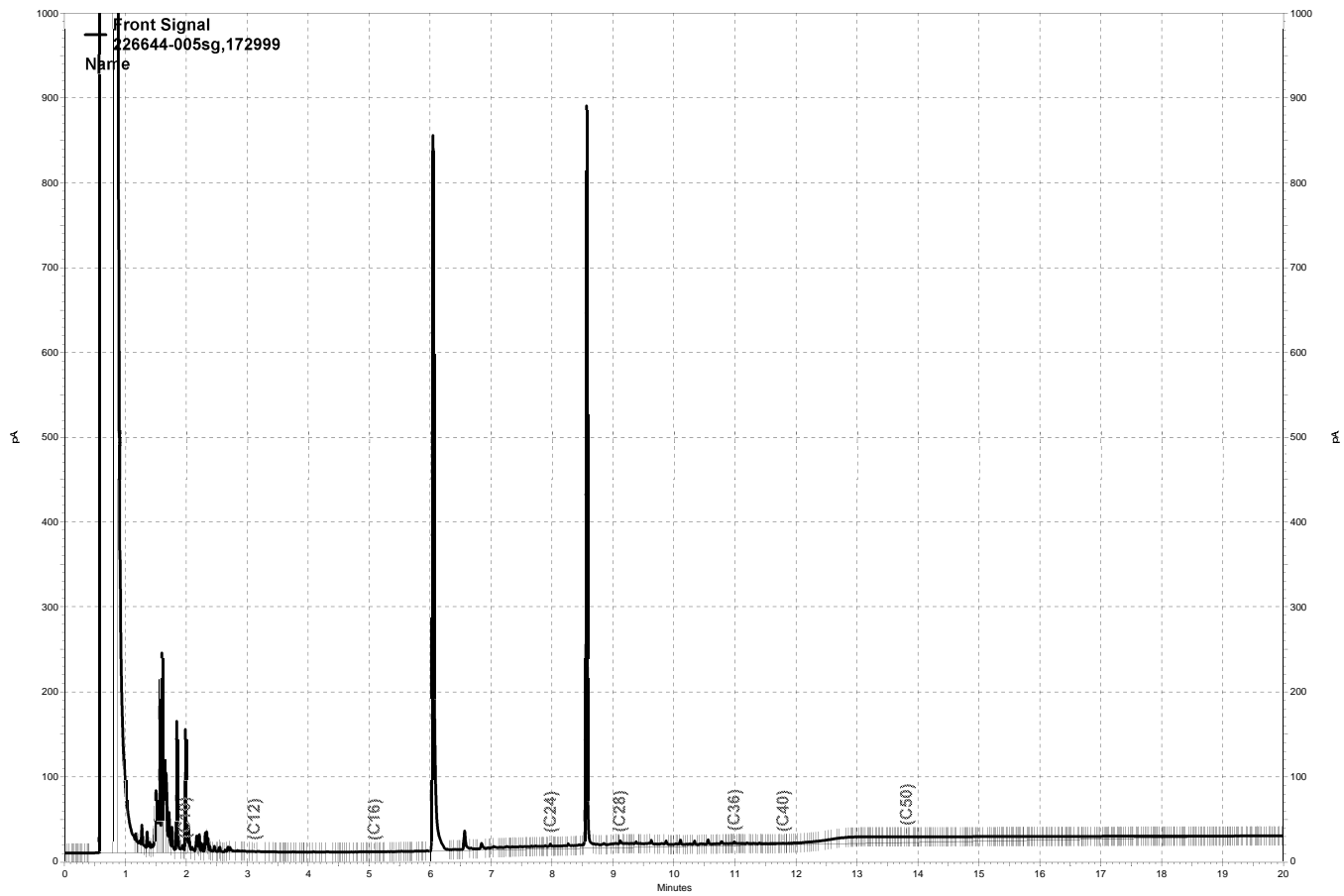
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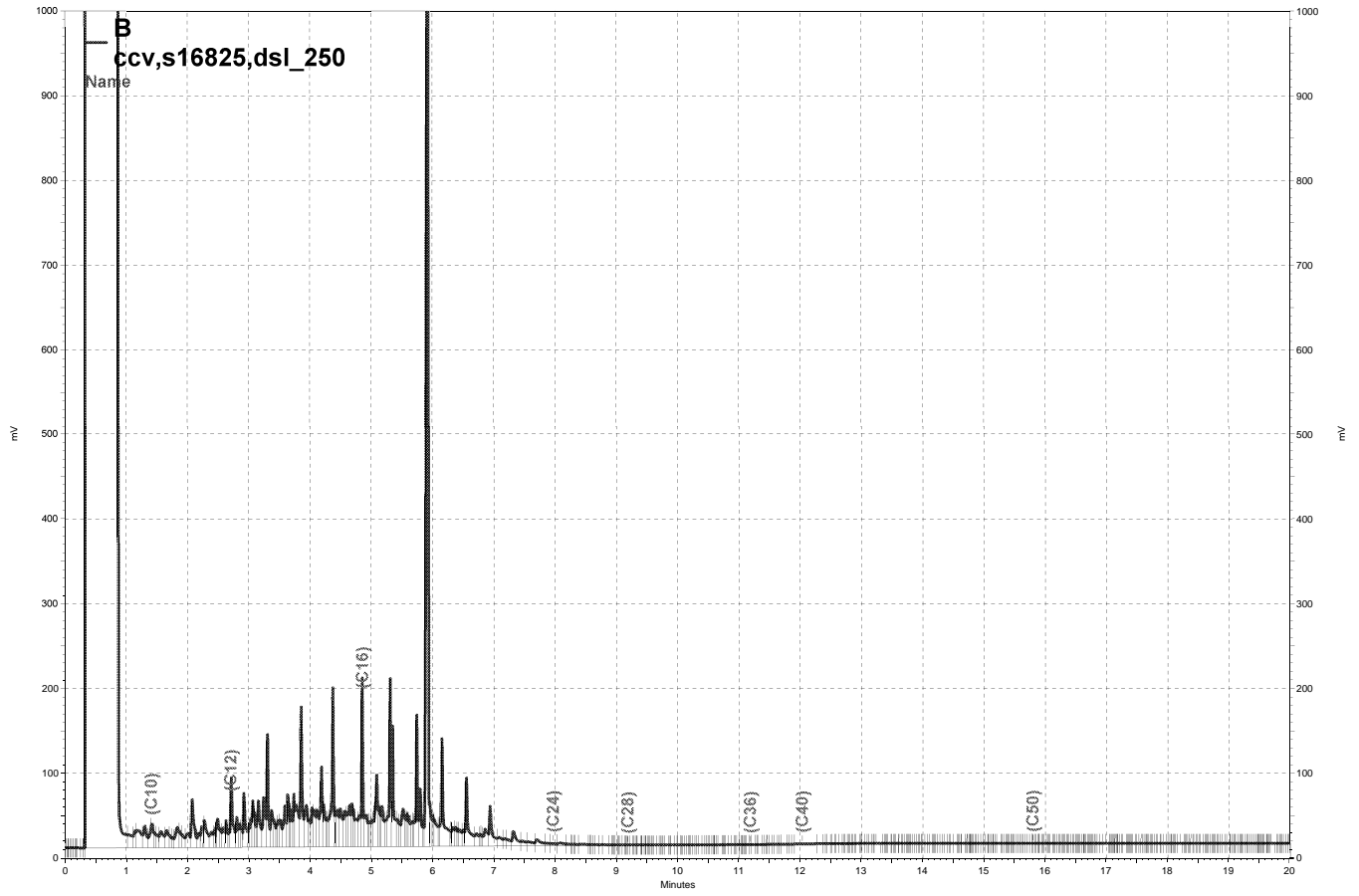
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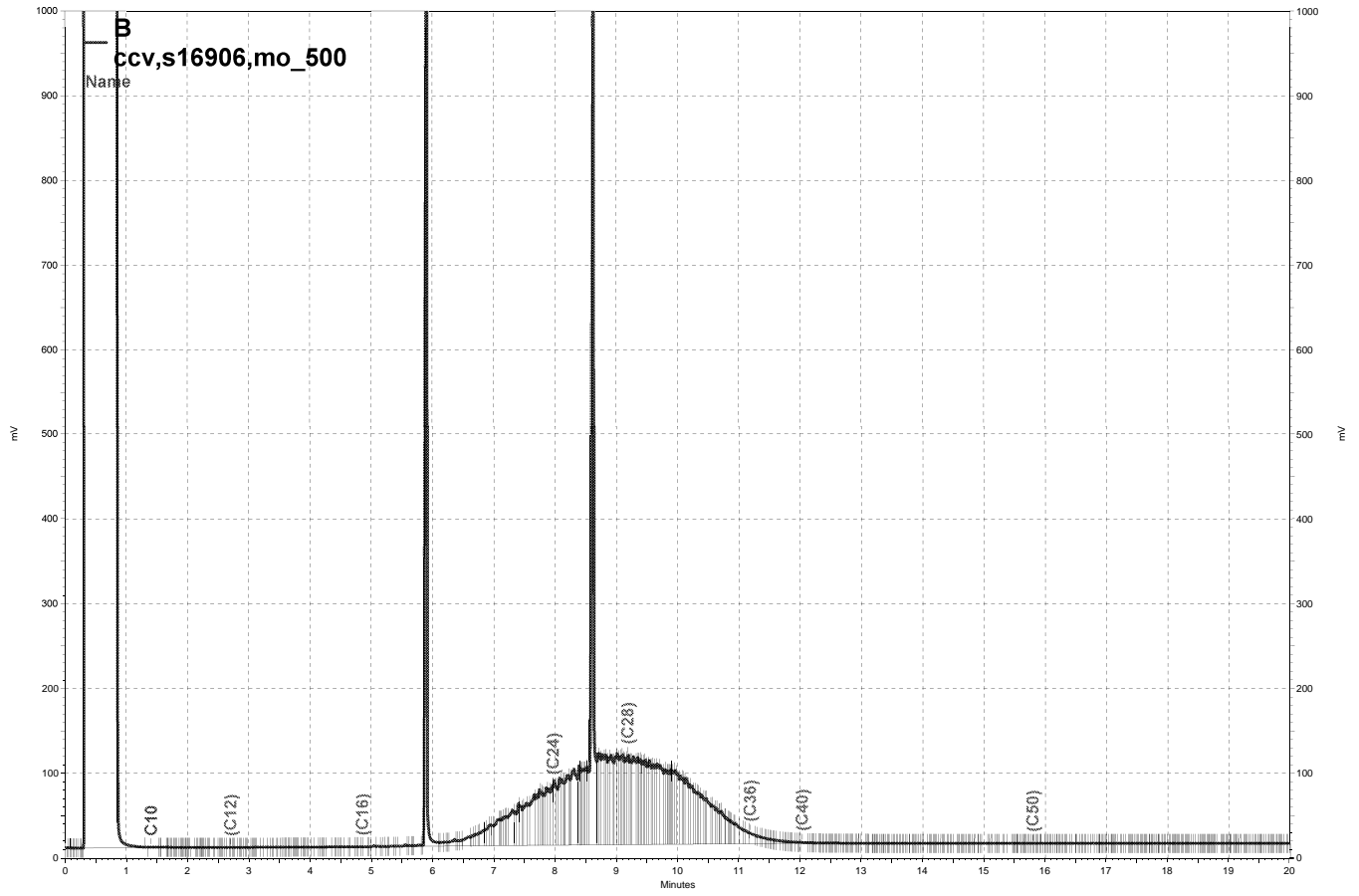


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### Curtis & Tompkins Laboratories Analytical Report

Lab #:	226644	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	TB-1	Diln Fac: 1.000
Lab ID:	226644-001	Sampled: 03/15/11
Matrix:	Water	Received: 03/15/11
Units:	ug/L	Analyzed: 03/23/11

Analyte	Result	RL	Batch#
Gasoline C7-C12	ND	50	173060
Freon 12	ND	1.0	173049
Chloromethane	ND	1.0	173049
Vinyl Chloride	ND	0.5	173049
Bromomethane	ND	1.0	173049
Chloroethane	ND	1.0	173049
Trichlorofluoromethane	ND	1.0	173049
Acetone	ND	10	173049
Freon 113	ND	2.0	173049
1,1-Dichloroethene	ND	0.5	173049
Methylene Chloride	ND	10	173049
Carbon Disulfide	ND	0.5	173049
MTBE	ND	0.5	173049
trans-1,2-Dichloroethene	ND	0.5	173049
Vinyl Acetate	ND	10	173049
1,1-Dichloroethane	ND	0.5	173049
2-Butanone	ND	10	173049
cis-1,2-Dichloroethene	ND	0.5	173049
2,2-Dichloropropane	ND	0.5	173049
Chloroform	ND	0.5	173049
Bromochloromethane	ND	0.5	173049
1,1,1-Trichloroethane	ND	0.5	173049
1,1-Dichloropropene	ND	0.5	173049
Carbon Tetrachloride	ND	0.5	173049
1,2-Dichloroethane	ND	0.5	173049
Benzene	ND	0.5	173049
Trichloroethene	ND	0.5	173049
1,2-Dichloropropane	ND	0.5	173049
Bromodichloromethane	ND	0.5	173049
Dibromomethane	ND	0.5	173049
4-Methyl-2-Pentanone	ND	10	173049
cis-1,3-Dichloropropene	ND	0.5	173049
Toluene	ND	0.5	173049
trans-1,3-Dichloropropene	ND	0.5	173049
1,1,2-Trichloroethane	ND	0.5	173049
2-Hexanone	ND	10	173049
1,3-Dichloropropane	ND	0.5	173049
Tetrachloroethene	ND	0.5	173049

ND= Not Detected  
 RL= Reporting Limit

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	TB-1	Diln Fac:	1.000
Lab ID:	226644-001	Sampled:	03/15/11
Matrix:	Water	Received:	03/15/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Dibromochloromethane	ND	0.5	173049
1,2-Dibromoethane	ND	0.5	173049
Chlorobenzene	ND	0.5	173049
1,1,1,2-Tetrachloroethane	ND	0.5	173049
Ethylbenzene	ND	0.5	173049
m,p-Xylenes	ND	0.5	173049
o-Xylene	ND	0.5	173049
Styrene	ND	0.5	173049
Bromoform	ND	1.0	173049
Isopropylbenzene	ND	0.5	173049
1,1,2,2-Tetrachloroethane	ND	0.5	173049
1,2,3-Trichloropropane	ND	0.5	173049
Propylbenzene	ND	0.5	173049
Bromobenzene	ND	0.5	173049
1,3,5-Trimethylbenzene	ND	0.5	173049
2-Chlorotoluene	ND	0.5	173049
4-Chlorotoluene	ND	0.5	173049
tert-Butylbenzene	ND	0.5	173049
1,2,4-Trimethylbenzene	ND	0.5	173049
sec-Butylbenzene	ND	0.5	173049
para-Isopropyl Toluene	ND	0.5	173049
1,3-Dichlorobenzene	ND	0.5	173049
1,4-Dichlorobenzene	ND	0.5	173049
n-Butylbenzene	ND	0.5	173049
1,2-Dichlorobenzene	ND	0.5	173049
1,2-Dibromo-3-Chloropropane	ND	2.0	173049
1,2,4-Trichlorobenzene	ND	0.5	173049
Hexachlorobutadiene	ND	2.0	173049
Naphthalene	ND	2.0	173049
1,2,3-Trichlorobenzene	ND	0.5	173049

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	104	80-125	173049
1,2-Dichloroethane-d4	101	71-146	173049
Toluene-d8	99	80-120	173049
Bromofluorobenzene	98	80-120	173049

ND= Not Detected  
 RL= Reporting Limit

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-10	Diln Fac:	1.000
Lab ID:	226644-002	Sampled:	03/15/11
Matrix:	Water	Received:	03/15/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Gasoline C7-C12	ND	50	173060
Freon 12	ND	1.0	173049
Chloromethane	ND	1.0	173049
Vinyl Chloride	ND	0.5	173049
Bromomethane	ND	1.0	173049
Chloroethane	ND	1.0	173049
Trichlorofluoromethane	ND	1.0	173049
Acetone	ND	10	173049
Freon 113	ND	2.0	173049
1,1-Dichloroethene	ND	0.5	173049
Methylene Chloride	ND	10	173049
Carbon Disulfide	ND	0.5	173049
MTBE	ND	0.5	173049
trans-1,2-Dichloroethene	ND	0.5	173049
Vinyl Acetate	ND	10	173049
1,1-Dichloroethane	ND	0.5	173049
2-Butanone	ND	10	173049
cis-1,2-Dichloroethene	ND	0.5	173049
2,2-Dichloropropane	ND	0.5	173049
Chloroform	ND	0.5	173049
Bromochloromethane	ND	0.5	173049
1,1,1-Trichloroethane	ND	0.5	173049
1,1-Dichloropropene	ND	0.5	173049
Carbon Tetrachloride	ND	0.5	173049
1,2-Dichloroethane	ND	0.5	173049
Benzene	ND	0.5	173049
Trichloroethene	ND	0.5	173049
1,2-Dichloropropane	ND	0.5	173049
Bromodichloromethane	ND	0.5	173049
Dibromomethane	ND	0.5	173049
4-Methyl-2-Pentanone	ND	10	173049
cis-1,3-Dichloropropene	ND	0.5	173049
Toluene	ND	0.5	173049
trans-1,3-Dichloropropene	ND	0.5	173049
1,1,2-Trichloroethane	ND	0.5	173049
2-Hexanone	ND	10	173049
1,3-Dichloropropane	ND	0.5	173049
Tetrachloroethene	ND	0.5	173049

ND= Not Detected  
 RL= Reporting Limit

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-10	Diln Fac:	1.000
Lab ID:	226644-002	Sampled:	03/15/11
Matrix:	Water	Received:	03/15/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Dibromochloromethane	ND	0.5	173049
1,2-Dibromoethane	ND	0.5	173049
Chlorobenzene	ND	0.5	173049
1,1,1,2-Tetrachloroethane	ND	0.5	173049
Ethylbenzene	ND	0.5	173049
m,p-Xylenes	ND	0.5	173049
o-Xylene	ND	0.5	173049
Styrene	ND	0.5	173049
Bromoform	ND	1.0	173049
Isopropylbenzene	ND	0.5	173049
1,1,2,2-Tetrachloroethane	ND	0.5	173049
1,2,3-Trichloropropane	ND	0.5	173049
Propylbenzene	ND	0.5	173049
Bromobenzene	ND	0.5	173049
1,3,5-Trimethylbenzene	ND	0.5	173049
2-Chlorotoluene	ND	0.5	173049
4-Chlorotoluene	ND	0.5	173049
tert-Butylbenzene	ND	0.5	173049
1,2,4-Trimethylbenzene	0.6	0.5	173049
sec-Butylbenzene	ND	0.5	173049
para-Isopropyl Toluene	ND	0.5	173049
1,3-Dichlorobenzene	ND	0.5	173049
1,4-Dichlorobenzene	ND	0.5	173049
n-Butylbenzene	ND	0.5	173049
1,2-Dichlorobenzene	ND	0.5	173049
1,2-Dibromo-3-Chloropropane	ND	2.0	173049
1,2,4-Trichlorobenzene	ND	0.5	173049
Hexachlorobutadiene	ND	2.0	173049
Naphthalene	ND	2.0	173049
1,2,3-Trichlorobenzene	ND	0.5	173049

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	109	80-125	173049
1,2-Dichloroethane-d4	102	71-146	173049
Toluene-d8	99	80-120	173049
Bromofluorobenzene	101	80-120	173049

ND= Not Detected  
 RL= Reporting Limit

### Curtis & Tompkins Laboratories Analytical Report

Lab #:	226644	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	GW-11	Diln Fac: 1.000
Lab ID:	226644-003	Sampled: 03/15/11
Matrix:	Water	Received: 03/15/11
Units:	ug/L	Analyzed: 03/23/11

Analyte	Result	RL	Batch#
Gasoline C7-C12	180	50	173060
Freon 12	ND	1.0	173049
Chloromethane	ND	1.0	173049
Vinyl Chloride	ND	0.5	173049
Bromomethane	ND	1.0	173049
Chloroethane	ND	1.0	173049
Trichlorofluoromethane	ND	1.0	173049
Acetone	ND	10	173049
Freon 113	ND	2.0	173049
1,1-Dichloroethene	ND	0.5	173049
Methylene Chloride	ND	10	173049
Carbon Disulfide	ND	0.5	173049
MTBE	ND	0.5	173049
trans-1,2-Dichloroethene	ND	0.5	173049
Vinyl Acetate	ND	10	173049
1,1-Dichloroethane	ND	0.5	173049
2-Butanone	ND	10	173049
cis-1,2-Dichloroethene	ND	0.5	173049
2,2-Dichloropropane	ND	0.5	173049
Chloroform	ND	0.5	173049
Bromochloromethane	ND	0.5	173049
1,1,1-Trichloroethane	ND	0.5	173049
1,1-Dichloropropene	ND	0.5	173049
Carbon Tetrachloride	ND	0.5	173049
1,2-Dichloroethane	ND	0.5	173049
Benzene	ND	0.5	173049
Trichloroethene	ND	0.5	173049
1,2-Dichloropropane	ND	0.5	173049
Bromodichloromethane	ND	0.5	173049
Dibromomethane	ND	0.5	173049
4-Methyl-2-Pentanone	ND	10	173049
cis-1,3-Dichloropropene	ND	0.5	173049
Toluene	2.0	0.5	173049
trans-1,3-Dichloropropene	ND	0.5	173049
1,1,2-Trichloroethane	ND	0.5	173049
2-Hexanone	ND	10	173049
1,3-Dichloropropane	ND	0.5	173049
Tetrachloroethene	ND	0.5	173049

ND= Not Detected  
 RL= Reporting Limit

### Curtis & Tompkins Laboratories Analytical Report

Lab #:	226644	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	GW-11	Diln Fac: 1.000
Lab ID:	226644-003	Sampled: 03/15/11
Matrix:	Water	Received: 03/15/11
Units:	ug/L	Analyzed: 03/23/11

Analyte	Result	RL	Batch#
Dibromochloromethane	ND	0.5	173049
1,2-Dibromoethane	ND	0.5	173049
Chlorobenzene	ND	0.5	173049
1,1,1,2-Tetrachloroethane	ND	0.5	173049
Ethylbenzene	ND	0.5	173049
m,p-Xylenes	0.6	0.5	173049
o-Xylene	ND	0.5	173049
Styrene	ND	0.5	173049
Bromoform	ND	1.0	173049
Isopropylbenzene	ND	0.5	173049
1,1,2,2-Tetrachloroethane	ND	0.5	173049
1,2,3-Trichloropropane	ND	0.5	173049
Propylbenzene	0.7	0.5	173049
Bromobenzene	ND	0.5	173049
1,3,5-Trimethylbenzene	ND	0.5	173049
2-Chlorotoluene	ND	0.5	173049
4-Chlorotoluene	ND	0.5	173049
tert-Butylbenzene	ND	0.5	173049
1,2,4-Trimethylbenzene	1.9	0.5	173049
sec-Butylbenzene	0.6	0.5	173049
para-Isopropyl Toluene	ND	0.5	173049
1,3-Dichlorobenzene	ND	0.5	173049
1,4-Dichlorobenzene	ND	0.5	173049
n-Butylbenzene	ND	0.5	173049
1,2-Dichlorobenzene	ND	0.5	173049
1,2-Dibromo-3-Chloropropane	ND	2.0	173049
1,2,4-Trichlorobenzene	ND	0.5	173049
Hexachlorobutadiene	ND	2.0	173049
Naphthalene	3.1	2.0	173049
1,2,3-Trichlorobenzene	ND	0.5	173049

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	106	80-125	173049
1,2-Dichloroethane-d4	101	71-146	173049
Toluene-d8	99	80-120	173049
Bromofluorobenzene	99	80-120	173049

ND= Not Detected  
 RL= Reporting Limit

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-12	Diln Fac:	1.000
Lab ID:	226644-004	Sampled:	03/15/11
Matrix:	Water	Received:	03/15/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Gasoline C7-C12	150 Y	50	173060
Freon 12	ND	1.0	173049
Chloromethane	ND	1.0	173049
Vinyl Chloride	ND	0.5	173049
Bromomethane	ND	1.0	173049
Chloroethane	ND	1.0	173049
Trichlorofluoromethane	ND	1.0	173049
Acetone	ND	10	173049
Freon 113	ND	2.0	173049
1,1-Dichloroethene	ND	0.5	173049
Methylene Chloride	ND	10	173049
Carbon Disulfide	ND	0.5	173049
MTBE	ND	0.5	173049
trans-1,2-Dichloroethene	ND	0.5	173049
Vinyl Acetate	ND	10	173049
1,1-Dichloroethane	ND	0.5	173049
2-Butanone	ND	10	173049
cis-1,2-Dichloroethene	ND	0.5	173049
2,2-Dichloropropane	ND	0.5	173049
Chloroform	ND	0.5	173049
Bromochloromethane	ND	0.5	173049
1,1,1-Trichloroethane	ND	0.5	173049
1,1-Dichloropropene	ND	0.5	173049
Carbon Tetrachloride	ND	0.5	173049
1,2-Dichloroethane	ND	0.5	173049
Benzene	ND	0.5	173049
Trichloroethene	ND	0.5	173049
1,2-Dichloropropane	ND	0.5	173049
Bromodichloromethane	ND	0.5	173049
Dibromomethane	ND	0.5	173049
4-Methyl-2-Pentanone	ND	10	173049
cis-1,3-Dichloropropene	ND	0.5	173049
Toluene	ND	0.5	173049
trans-1,3-Dichloropropene	ND	0.5	173049
1,1,2-Trichloroethane	ND	0.5	173049
2-Hexanone	ND	10	173049
1,3-Dichloropropane	ND	0.5	173049

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit



**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-12	Diln Fac:	1.000
Lab ID:	226644-004	Sampled:	03/15/11
Matrix:	Water	Received:	03/15/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Tetrachloroethene	ND	0.5	173049
Dibromochloromethane	ND	0.5	173049
1,2-Dibromoethane	ND	0.5	173049
Chlorobenzene	ND	0.5	173049
1,1,1,2-Tetrachloroethane	ND	0.5	173049
Ethylbenzene	ND	0.5	173049
m,p-Xylenes	0.5	0.5	173049
o-Xylene	ND	0.5	173049
Styrene	ND	0.5	173049
Bromoform	ND	1.0	173049
Isopropylbenzene	ND	0.5	173049
1,1,2,2-Tetrachloroethane	ND	0.5	173049
1,2,3-Trichloropropane	ND	0.5	173049
Propylbenzene	ND	0.5	173049
Bromobenzene	ND	0.5	173049
1,3,5-Trimethylbenzene	ND	0.5	173049
2-Chlorotoluene	ND	0.5	173049
4-Chlorotoluene	ND	0.5	173049
tert-Butylbenzene	ND	0.5	173049
1,2,4-Trimethylbenzene	1.1	0.5	173049
sec-Butylbenzene	ND	0.5	173049
para-Isopropyl Toluene	ND	0.5	173049
1,3-Dichlorobenzene	ND	0.5	173049
1,4-Dichlorobenzene	ND	0.5	173049
n-Butylbenzene	ND	0.5	173049
1,2-Dichlorobenzene	ND	0.5	173049
1,2-Dibromo-3-Chloropropane	ND	2.0	173049
1,2,4-Trichlorobenzene	ND	0.5	173049
Hexachlorobutadiene	ND	2.0	173049
Naphthalene	ND	2.0	173049
1,2,3-Trichlorobenzene	ND	0.5	173049

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	106	80-125	173049
1,2-Dichloroethane-d4	100	71-146	173049
Toluene-d8	100	80-120	173049
Bromofluorobenzene	99	80-120	173049

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-13	Diln Fac:	1.000
Lab ID:	226644-005	Sampled:	03/15/11
Matrix:	Water	Received:	03/15/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Gasoline C7-C12	420	50	173060
Freon 12	ND	1.0	173049
Chloromethane	ND	1.0	173049
Vinyl Chloride	ND	0.5	173049
Bromomethane	ND	1.0	173049
Chloroethane	ND	1.0	173049
Trichlorofluoromethane	ND	1.0	173049
Acetone	ND	10	173049
Freon 113	ND	2.0	173049
1,1-Dichloroethene	ND	0.5	173049
Methylene Chloride	ND	10	173049
Carbon Disulfide	ND	0.5	173049
MTBE	ND	0.5	173049
trans-1,2-Dichloroethene	ND	0.5	173049
Vinyl Acetate	ND	10	173049
1,1-Dichloroethane	ND	0.5	173049
2-Butanone	ND	10	173049
cis-1,2-Dichloroethene	ND	0.5	173049
2,2-Dichloropropane	ND	0.5	173049
Chloroform	ND	0.5	173049
Bromochloromethane	ND	0.5	173049
1,1,1-Trichloroethane	ND	0.5	173049
1,1-Dichloropropene	ND	0.5	173049
Carbon Tetrachloride	ND	0.5	173049
1,2-Dichloroethane	ND	0.5	173049
Benzene	ND	0.5	173049
Trichloroethene	ND	0.5	173049
1,2-Dichloropropane	ND	0.5	173049
Bromodichloromethane	ND	0.5	173049
Dibromomethane	ND	0.5	173049
4-Methyl-2-Pentanone	ND	10	173049
cis-1,3-Dichloropropene	ND	0.5	173049
Toluene	1.5	0.5	173049
trans-1,3-Dichloropropene	ND	0.5	173049
1,1,2-Trichloroethane	ND	0.5	173049
2-Hexanone	ND	10	173049
1,3-Dichloropropane	ND	0.5	173049
Tetrachloroethene	ND	0.5	173049

ND= Not Detected  
 RL= Reporting Limit

### Curtis & Tompkins Laboratories Analytical Report

Lab #:	226644	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	GW-13	Diln Fac: 1.000
Lab ID:	226644-005	Sampled: 03/15/11
Matrix:	Water	Received: 03/15/11
Units:	ug/L	Analyzed: 03/23/11

Analyte	Result	RL	Batch#
Dibromochloromethane	ND	0.5	173049
1,2-Dibromoethane	ND	0.5	173049
Chlorobenzene	ND	0.5	173049
1,1,1,2-Tetrachloroethane	ND	0.5	173049
Ethylbenzene	1.0	0.5	173049
m,p-Xylenes	6.2	0.5	173049
o-Xylene	3.7	0.5	173049
Styrene	ND	0.5	173049
Bromoform	ND	1.0	173049
Isopropylbenzene	0.7	0.5	173049
1,1,2,2-Tetrachloroethane	ND	0.5	173049
1,2,3-Trichloropropane	ND	0.5	173049
Propylbenzene	1.8	0.5	173049
Bromobenzene	ND	0.5	173049
1,3,5-Trimethylbenzene	9.4	0.5	173049
2-Chlorotoluene	ND	0.5	173049
4-Chlorotoluene	ND	0.5	173049
tert-Butylbenzene	ND	0.5	173049
1,2,4-Trimethylbenzene	36	0.5	173049
sec-Butylbenzene	1.5	0.5	173049
para-Isopropyl Toluene	2.5	0.5	173049
1,3-Dichlorobenzene	ND	0.5	173049
1,4-Dichlorobenzene	ND	0.5	173049
n-Butylbenzene	2.2	0.5	173049
1,2-Dichlorobenzene	ND	0.5	173049
1,2-Dibromo-3-Chloropropane	ND	2.0	173049
1,2,4-Trichlorobenzene	ND	0.5	173049
Hexachlorobutadiene	ND	2.0	173049
Naphthalene	ND	2.0	173049
1,2,3-Trichlorobenzene	ND	0.5	173049

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	108	80-125	173049
1,2-Dichloroethane-d4	101	71-146	173049
Toluene-d8	100	80-120	173049
Bromofluorobenzene	93	80-120	173049

ND= Not Detected  
 RL= Reporting Limit

Batch QC Report

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	173049
Units:	ug/L	Analyzed:	03/23/11
Diln Fac:	1.000		

Type: BS Lab ID: QC584890

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	19.57	78	65-138
Benzene	25.00	25.39	102	80-124
Trichloroethene	25.00	25.93	104	78-122
Toluene	25.00	24.35	97	80-120
Chlorobenzene	25.00	25.18	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-125
1,2-Dichloroethane-d4	102	71-146
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-120

Type: BSD Lab ID: QC584891

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	19.24	77	65-138	2	20
Benzene	25.00	24.61	98	80-124	3	20
Trichloroethene	25.00	25.58	102	78-122	1	20
Toluene	25.00	24.17	97	80-120	1	20
Chlorobenzene	25.00	24.83	99	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-125
1,2-Dichloroethane-d4	100	71-146
Toluene-d8	99	80-120
Bromofluorobenzene	96	80-120

RPD= Relative Percent Difference

**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584892	Batch#:	173049
Matrix:	Water	Analyzed:	03/23/11
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	NA	
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

NA= Not Analyzed  
 ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584892	Batch#:	173049
Matrix:	Water	Analyzed:	03/23/11
Units:	ug/L		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-125
1,2-Dichloroethane-d4	101	71-146
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-120

NA= Not Analyzed  
 ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584934	Batch#:	173060
Matrix:	Water	Analyzed:	03/23/11
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	NA	
Chloromethane	NA	
Vinyl Chloride	NA	
Bromomethane	NA	
Chloroethane	NA	
Trichlorofluoromethane	NA	
Acetone	NA	
Freon 113	NA	
1,1-Dichloroethene	NA	
Methylene Chloride	NA	
Carbon Disulfide	NA	
MTBE	NA	
trans-1,2-Dichloroethene	NA	
Vinyl Acetate	NA	
1,1-Dichloroethane	NA	
2-Butanone	NA	
cis-1,2-Dichloroethene	NA	
2,2-Dichloropropane	NA	
Chloroform	NA	
Bromochloromethane	NA	
1,1,1-Trichloroethane	NA	
1,1-Dichloropropene	NA	
Carbon Tetrachloride	NA	
1,2-Dichloroethane	NA	
Benzene	NA	
Trichloroethene	NA	
1,2-Dichloropropane	NA	
Bromodichloromethane	NA	
Dibromomethane	NA	
4-Methyl-2-Pentanone	NA	
cis-1,3-Dichloropropene	NA	
Toluene	NA	
trans-1,3-Dichloropropene	NA	
1,1,2-Trichloroethane	NA	
2-Hexanone	NA	
1,3-Dichloropropane	NA	
Tetrachloroethene	NA	
Dibromochloromethane	NA	
1,2-Dibromoethane	NA	
Chlorobenzene	NA	
1,1,1,2-Tetrachloroethane	NA	
Ethylbenzene	NA	
m,p-Xylenes	NA	
o-Xylene	NA	
Styrene	NA	
Bromoform	NA	
Isopropylbenzene	NA	
1,1,2,2-Tetrachloroethane	NA	
1,2,3-Trichloropropane	NA	
Propylbenzene	NA	
Bromobenzene	NA	

\*= Value outside of QC limits; see narrative

NA= Not Analyzed

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584934	Batch#:	173060
Matrix:	Water	Analyzed:	03/23/11
Units:	ug/L		

Analyte	Result	RL
1,3,5-Trimethylbenzene	NA	
2-Chlorotoluene	NA	
4-Chlorotoluene	NA	
tert-Butylbenzene	NA	
1,2,4-Trimethylbenzene	NA	
sec-Butylbenzene	NA	
para-Isopropyl Toluene	NA	
1,3-Dichlorobenzene	NA	
1,4-Dichlorobenzene	NA	
n-Butylbenzene	NA	
1,2-Dichlorobenzene	NA	
1,2-Dibromo-3-Chloropropane	NA	
1,2,4-Trichlorobenzene	NA	
Hexachlorobutadiene	NA	
Naphthalene	NA	
1,2,3-Trichlorobenzene	NA	

Surrogate	%REC	Limits
Dibromofluoromethane	116	80-125
1,2-Dichloroethane-d4	149 *	71-146
Toluene-d8	115	80-120
Bromofluorobenzene	141 *	80-120

\*= Value outside of QC limits; see narrative  
 NA= Not Analyzed  
 ND= Not Detected  
 RL= Reporting Limit



## Batch QC Report

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	173060
Units:	ug/L	Analyzed:	03/23/11
Diln Fac:	1.000		

Type: BS Lab ID: QC584935

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	800.0	786.2	98	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	115	80-125
1,2-Dichloroethane-d4	145	71-146
Toluene-d8	110	80-120
Bromofluorobenzene	131 *	80-120

Type: BSD Lab ID: QC584936

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	800.0	804.3	101	70-130	2	20

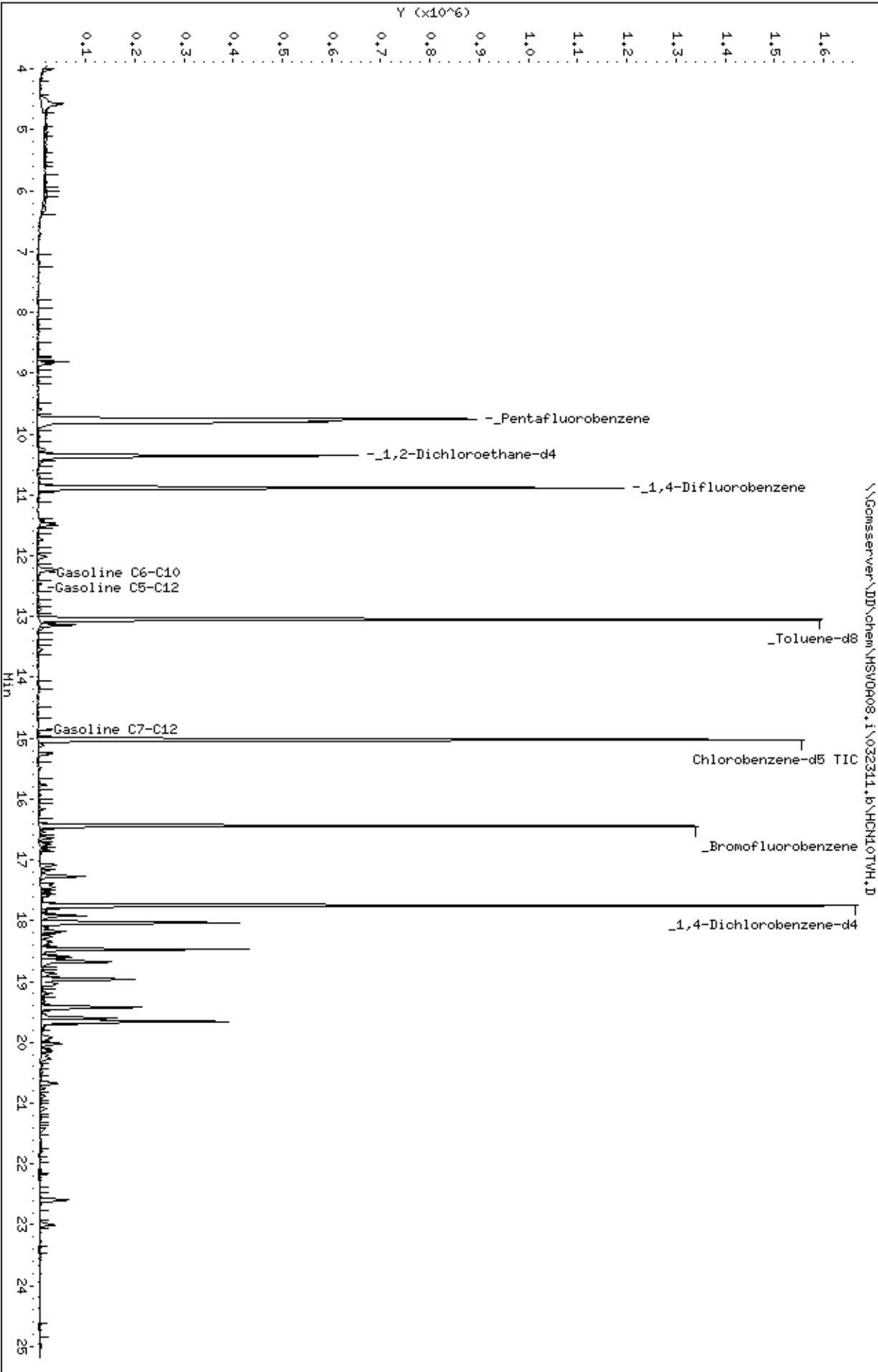
Surrogate	%REC	Limits
Dibromofluoromethane	115	80-125
1,2-Dichloroethane-d4	138	71-146
Toluene-d8	109	80-120
Bromofluorobenzene	132 *	80-120

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

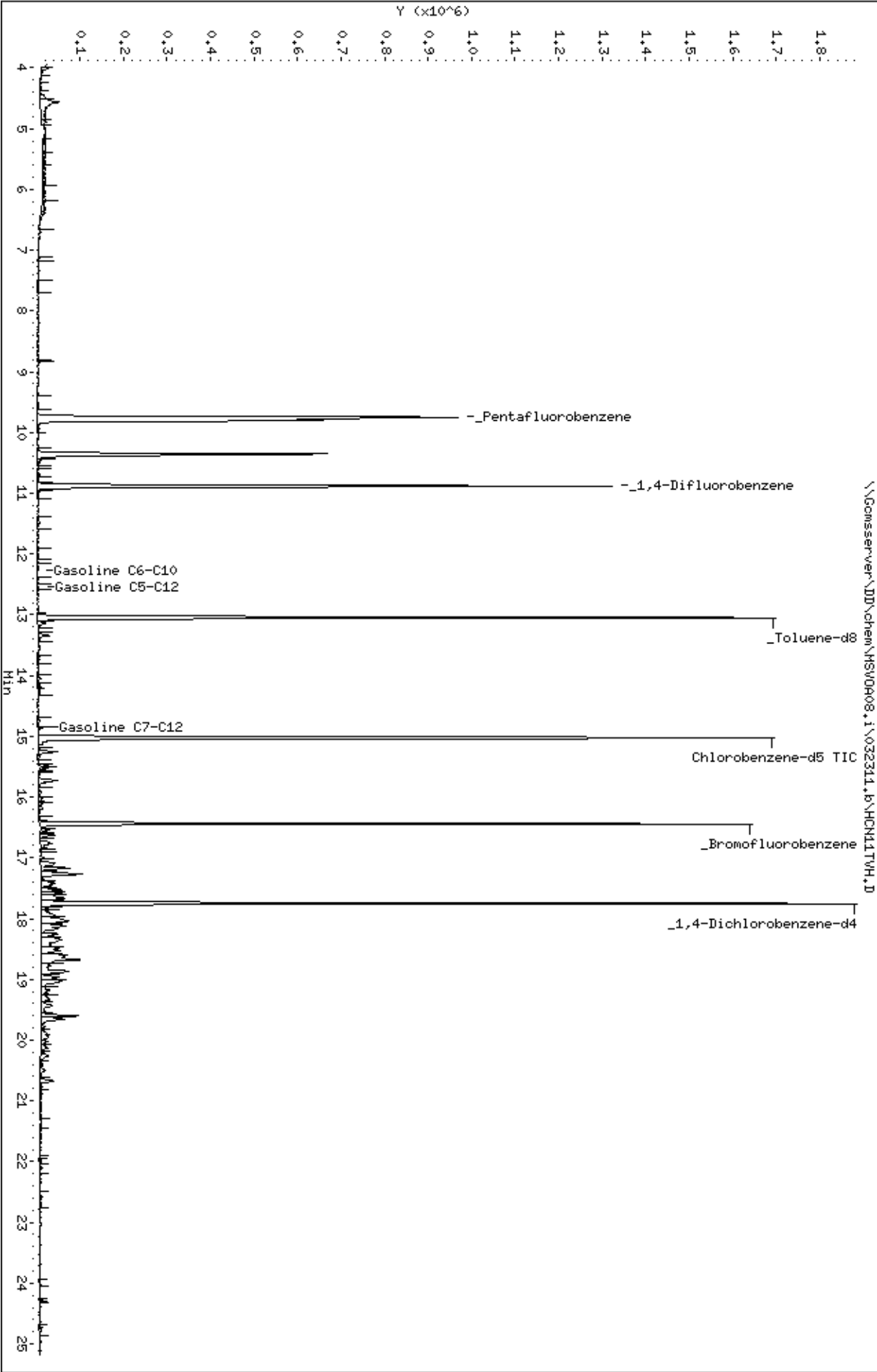
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Date: 23-Mar-2011 16:42  
Client ID: DYNA P&T  
Sample Info: S,226644-003  
Column phase:

Instrument: HSV0908.i  
Operator: WDC  
Column diameter: 2.00



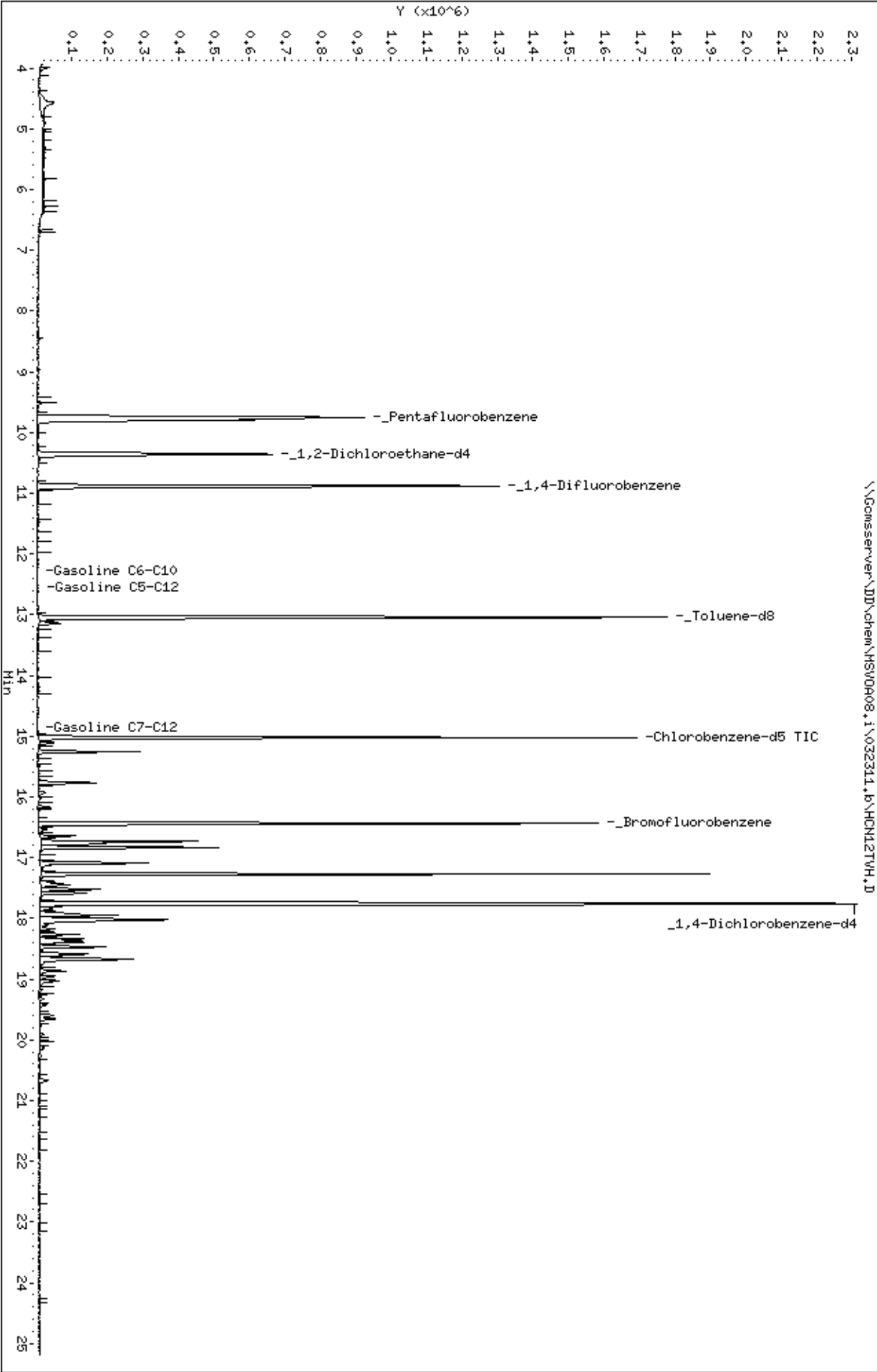
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Client ID: DYNA P&T  
Sample Info: S,226644-004  
Column phase:

Instrument: HSV0908.i  
Operator: WDC  
Column diameter: 2.00



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Date: 23-Mar-2011 17:56  
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Sample Info: S,226644-005  
Column phase:

Instrument: HSV0908.i  
Operator: WDC  
Column diameter: 2.00



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Date: 23-Mar-2011 12:59

Client ID: DYNA P&T

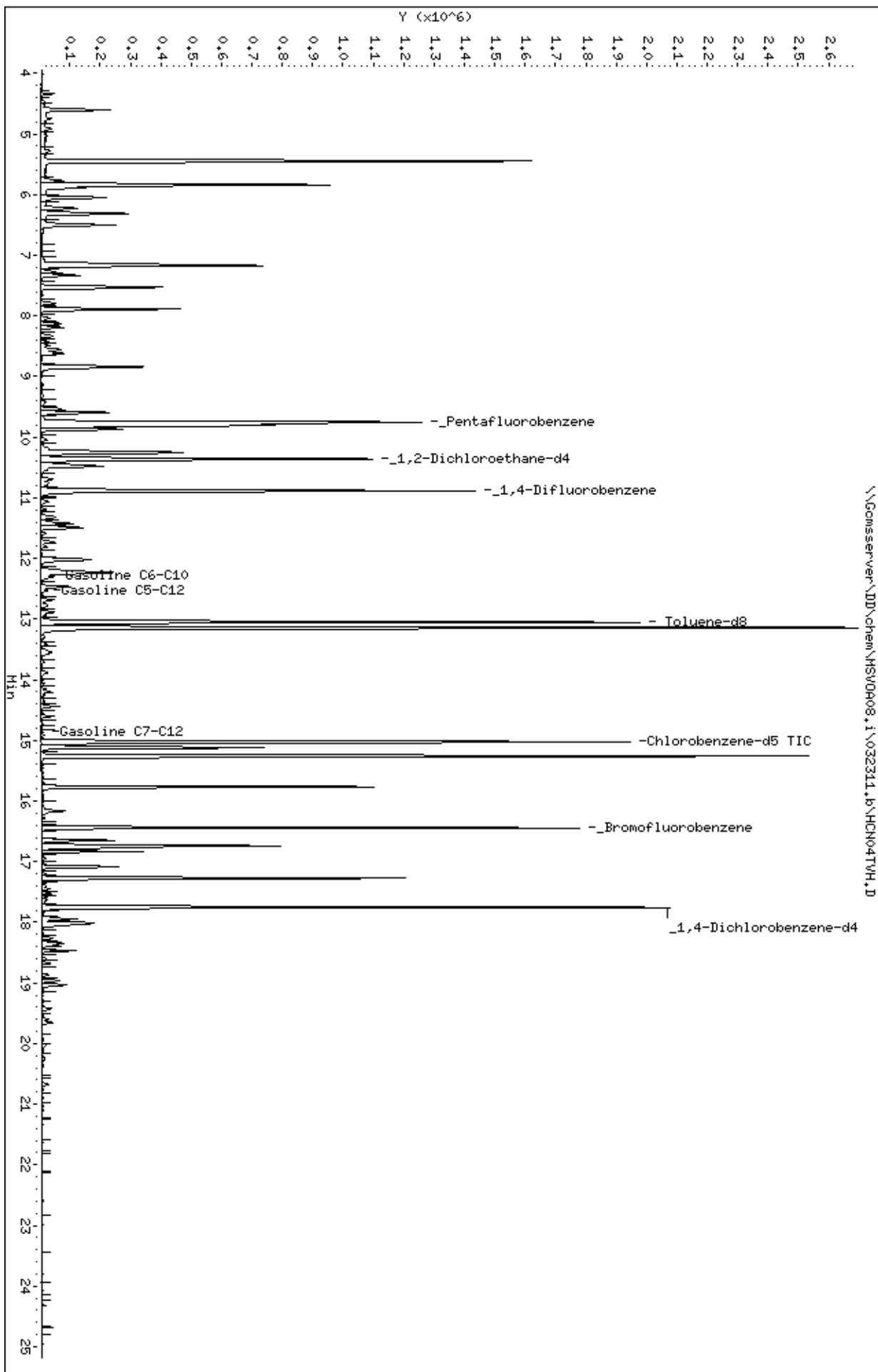
Sample Info: CV/BS, QCS84935, 1.73060, S15928, .008/100

Instrument: HSV0R08.i

Column phase:

Operator: WDC

Column diameter: 2.00



**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001		
Field ID:	GW-10	Diln Fac:	1.000
Lab ID:	226644-002	Sampled:	03/15/11
Matrix:	Filtrate	Received:	03/15/11
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Arsenic	ND	7.1	172852	03/16/11	03/26/11	EPA 6010B
Barium	190	5.0	172852	03/16/11	03/26/11	EPA 6010B
Beryllium	ND	2.0	172852	03/16/11	03/26/11	EPA 6010B
Cadmium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Chromium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Cobalt	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Copper	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Lead	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Mercury	ND	0.20	172987	03/21/11	03/21/11	EPA 7470A
Molybdenum	9.3	5.0	172852	03/16/11	03/26/11	EPA 6010B
Nickel	11	5.0	172852	03/16/11	03/26/11	EPA 6010B
Selenium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Silver	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Thallium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Vanadium	10	5.0	172852	03/16/11	03/26/11	EPA 6010B
Zinc	75	20	172852	03/16/11	03/26/11	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001		
Field ID:	GW-11	Diln Fac:	1.000
Lab ID:	226644-003	Sampled:	03/15/11
Matrix:	Filtrate	Received:	03/15/11
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Arsenic	ND	7.1	172852	03/16/11	03/26/11	EPA 6010B
Barium	1,400	5.0	172852	03/16/11	03/26/11	EPA 6010B
Beryllium	ND	2.0	172852	03/16/11	03/26/11	EPA 6010B
Cadmium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Chromium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Cobalt	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Copper	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Lead	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Mercury	ND	0.20	172987	03/21/11	03/21/11	EPA 7470A
Molybdenum	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Nickel	6.0	5.0	172852	03/16/11	03/26/11	EPA 6010B
Selenium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Silver	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Thallium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Vanadium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Zinc	ND	20	172852	03/16/11	03/26/11	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001		
Field ID:	GW-12	Diln Fac:	1.000
Lab ID:	226644-004	Sampled:	03/15/11
Matrix:	Filtrate	Received:	03/15/11
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Arsenic	25	7.1	172852	03/16/11	03/26/11	EPA 6010B
Barium	4,500	5.0	172852	03/16/11	03/26/11	EPA 6010B
Beryllium	ND	2.0	172852	03/16/11	03/26/11	EPA 6010B
Cadmium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Chromium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Cobalt	5.6	5.0	172852	03/16/11	03/26/11	EPA 6010B
Copper	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Lead	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Mercury	ND	0.20	172987	03/21/11	03/21/11	EPA 7470A
Molybdenum	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Nickel	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Selenium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Silver	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Thallium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Vanadium	6.0	5.0	172852	03/16/11	03/26/11	EPA 6010B
Zinc	37	20	172852	03/16/11	03/26/11	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001		
Field ID:	GW-13	Diln Fac:	1.000
Lab ID:	226644-005	Sampled:	03/15/11
Matrix:	Filtrate	Received:	03/15/11
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Arsenic	ND	7.1	172852	03/16/11	03/26/11	EPA 6010B
Barium	210	5.0	172852	03/16/11	03/26/11	EPA 6010B
Beryllium	ND	2.0	172852	03/16/11	03/26/11	EPA 6010B
Cadmium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Chromium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Cobalt	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Copper	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Lead	12	5.0	172852	03/16/11	03/26/11	EPA 6010B
Mercury	ND	0.20	172987	03/21/11	03/21/11	EPA 7470A
Molybdenum	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Nickel	9.7	5.0	172852	03/16/11	03/26/11	EPA 6010B
Selenium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Silver	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Thallium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Vanadium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Zinc	36	20	172852	03/16/11	03/26/11	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584117	Batch#:	172852
Matrix:	Filtrate	Prepared:	03/16/11
Units:	ug/L	Analyzed:	03/26/11

Analyte	Result	RL
Antimony	ND	10
Arsenic	ND	7.1
Barium	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	5.0
Cobalt	ND	5.0
Copper	ND	5.0
Lead	ND	5.0
Molybdenum	ND	5.0
Nickel	ND	5.0
Selenium	ND	10
Silver	ND	5.0
Thallium	ND	10
Vanadium	ND	5.0
Zinc	ND	20

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

<b>Dissolved California Title 22 Metals</b>			
Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	172852
Units:	ug/L	Prepared:	03/16/11
Diln Fac:	1.000	Analyzed:	03/26/11

Type: BS Lab ID: QC584118

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	510.6	102	75-120
Arsenic	100.0	99.13	99	80-124
Barium	2,000	1,985	99	80-120
Beryllium	50.00	51.73	103	80-120
Cadmium	50.00	50.95	102	80-120
Chromium	200.0	196.8	98	77-120
Cobalt	500.0	479.8	96	78-120
Copper	250.0	230.9	92	74-120
Lead	100.0	97.49	97	75-120
Molybdenum	400.0	413.2	103	80-120
Nickel	500.0	489.7	98	78-120
Selenium	100.0	98.77	99	78-121
Silver	50.00	50.06	100	78-120
Thallium	100.0	104.9	105	79-120
Vanadium	500.0	506.7	101	80-120
Zinc	500.0	507.3	101	79-120

Type: BSD Lab ID: QC584119

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	523.7	105	75-120	3	20
Arsenic	100.0	99.87	100	80-124	1	20
Barium	2,000	2,017	101	80-120	2	20
Beryllium	50.00	52.66	105	80-120	2	20
Cadmium	50.00	52.73	105	80-120	3	20
Chromium	200.0	202.3	101	77-120	3	20
Cobalt	500.0	496.4	99	78-120	3	20
Copper	250.0	243.1	97	74-120	5	20
Lead	100.0	100.9	101	75-120	3	20
Molybdenum	400.0	425.1	106	80-120	3	20
Nickel	500.0	505.3	101	78-120	3	20
Selenium	100.0	103.6	104	78-121	5	20
Silver	50.00	50.87	102	78-120	2	20
Thallium	100.0	109.8	110	79-120	5	20
Vanadium	500.0	513.8	103	80-120	1	20
Zinc	500.0	525.3	105	79-120	3	20

RPD= Relative Percent Difference

**Batch QC Report**
**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	172852
MSS Lab ID:	226619-001	Sampled:	03/14/11
Matrix:	Filtrate	Received:	03/15/11
Units:	ug/L	Prepared:	03/16/11
Diln Fac:	1.000	Analyzed:	03/26/11

Type: MS Lab ID: QC584120

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<1.774	500.0	496.6	99	67-120
Arsenic	47.11	100.0	150.7	104	70-132
Barium	4.625	2,000	1,886	94	72-120
Beryllium	<0.2014	50.00	50.03	100	78-121
Cadmium	<1.150	50.00	46.66	93	69-122
Chromium	2.686	200.0	189.1	93	71-120
Cobalt	1.216	500.0	463.9	93	70-120
Copper	<1.614	250.0	239.2	96	65-120
Lead	<1.610	100.0	87.67	88	62-120
Molybdenum	3.982	400.0	399.5	99	76-120
Nickel	4.739	500.0	465.3	92	65-120
Selenium	<2.501	100.0	98.84	99	67-127
Silver	<1.586	50.00	47.48	95	61-120
Thallium	<3.020	100.0	101.5	101	64-121
Vanadium	6.538	500.0	485.3	96	73-120
Zinc	<3.104	500.0	491.2	98	67-123

Type: MSD Lab ID: QC584121

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	508.0	102	67-120	2	20
Arsenic	100.0	146.9	100	70-132	3	28
Barium	2,000	1,874	93	72-120	1	26
Beryllium	50.00	49.34	99	78-121	1	20
Cadmium	50.00	46.26	93	69-122	1	23
Chromium	200.0	189.5	93	71-120	0	23
Cobalt	500.0	458.6	91	70-120	1	23
Copper	250.0	236.0	94	65-120	1	27
Lead	100.0	89.10	89	62-120	2	24
Molybdenum	400.0	401.8	99	76-120	1	24
Nickel	500.0	462.0	91	65-120	1	23
Selenium	100.0	96.22	96	67-127	3	28
Silver	50.00	47.25	95	61-120	0	25
Thallium	100.0	95.93	96	64-121	6	23
Vanadium	500.0	484.0	95	73-120	0	24
Zinc	500.0	485.0	97	67-123	1	25

RPD= Relative Percent Difference

## Batch QC Report

**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	172987
Lab ID:	QC584629	Prepared:	03/21/11
Matrix:	Filtrate	Analyzed:	03/21/11
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	172987
Matrix:	Filtrate	Prepared:	03/21/11
Units:	ug/L	Analyzed:	03/21/11
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584630	2.500	2.320	93	80-120		
BSD	QC584631	2.500	2.380	95	80-120	3	20

RPD= Relative Percent Difference

**Batch QC Report**
**Dissolved California Title 22 Metals**

Lab #:	226644	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	172987
Field ID:	ZZZZZZZZZZ	Sampled:	03/09/11
MSS Lab ID:	226504-001	Received:	03/10/11
Matrix:	Filtrate	Prepared:	03/21/11
Units:	ug/L	Analyzed:	03/21/11
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584632	0.03900	2.500	2.470	97	79-120		
MSD	QC584633		2.500	2.380	94	79-120	4	20

RPD= Relative Percent Difference



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







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

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

**Laboratory Job Number 226664  
ANALYTICAL REPORT**

PES Environmental, Inc. 1682 Novato Boulevard Novato, CA 94947	Project : 241.082.02.001 Location : 64th & Christie Emeryville, CA Level : II
--	---

<u>Sample ID</u>	<u>Lab ID</u>
GW-8	226664-001
GW-9	226664-002

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

Signature:   
Project Manager

Date: 03/28/2011

NELAP # 01107CA

### CASE NARRATIVE

Laboratory number: 226664  
Client: PES Environmental, Inc.  
Project: 241.082.02.001  
Location: 64th & Christie Emeryville, CA  
Request Date: 03/16/11  
Samples Received: 03/16/11

This data package contains sample and QC results for two water samples, requested for the above referenced project on 03/16/11. The samples were received cold and intact.

**TPH-Extractables by GC (EPA 8015B):**

No analytical problems were encountered.

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

High surrogate recoveries were observed for bromofluorobenzene in the method blank/BS/BSB for batch 173060. High surrogate recovery was observed for 1,2-dichloroethane-d4 in the method blank for batch 173060; no target analytes were detected in the sample. No other analytical problems were encountered.

**Metals (EPA 6010B and EPA 7470A):**

No analytical problems were encountered.

226064

# BLAINE

TECH SERVICES, INC.

1600 ROGERS AVENUE  
SAN JOSE, CALIFORNIA 95112-1105  
FAX (408) 573-7771  
PHONE (408) 573-0555

### CONDUCT ANALYSIS TO DETECT

LAB Entech DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER
- RWQCB REGION \_\_\_\_\_

CHAIN OF CUSTODY

CLIENT PES

SITE 64th and Christie Ave.

Emeryville, CA

BTS # ~~110315-PN1~~

C = COMPOSITE ALL CONTAINERS

TPH - G & VOCs (8260B)

TPH-D / MO (8015m) w/ Silica Gel Cleanup

TPH-D / MO (8015m) with out Silica Gel Cleanup

Dissolved Title 22 Metals (6010B) Field Filtered

SPECIAL INSTRUCTIONS

Invoice and Report to : PES

Attn: Chris Baldassari [cbaldassari@pesenv.com](mailto:cbaldassari@pesenv.com)

Project #

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H <sub>2</sub> O	CONTAINERS TOTAL										ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	GW-8	3/16	0938	W	7	Various	X	X	X	X							
2	GW-9	3/16	1115	W	7	Various	X	X	X	X							

SAMPLING COMPLETED DATE 3/16/11 TIME 1215 SAMPLING PERFORMED BY Patrick Harris RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY *[Signature]* DATE 3/16/11 TIME 12:30 RECEIVED BY *[Signature]* DATE 3/16/11 TIME 12:30pm

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

RELEASED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ RECEIVED BY \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_

SHIPPED VIA \_\_\_\_\_ DATE SENT \_\_\_\_\_ TIME SENT \_\_\_\_\_ COOLER # \_\_\_\_\_

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 2266664 Date Received 3/16/11 Number of coolers 1  
 Client PEIS Project Both and Christie Ave.  
 Date Opened 3/16/11 By (print) R. Paris (sign) [Signature]  
 Date Logged in ↓ By (print) ↓ (sign) ↓

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

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

2B. Were custody seals intact upon arrival? \_\_\_\_\_ YES NO (N/A)

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

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

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

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

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

7. Temperature documentation:

Type of ice used:  Wet  Blue/Gel  None Temp(°C) 3.2

Samples Received on ice & cold without a temperature blank

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

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

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

10. Are samples in the appropriate containers for indicated tests? (YES) NO

11. Are sample labels present, in good condition and complete? (YES) NO

12. Do the sample labels agree with custody papers? (YES) NO

13. Was sufficient amount of sample sent for tests requested? (YES) NO

14. Are the samples appropriately preserved? (YES) NO N/A

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

16. Was the client contacted concerning this sample delivery? \_\_\_\_\_ YES (NO)  
 If YES, Who was called? \_\_\_\_\_ By \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS rec'd 4 VOA's each sample.

226664

**Subject:** Fw: 241.082.02.001 - Groundwater samples from 6340 and 6390 Christie Ave., Emeryville  
**From:** "Desiree Tetrault" <desiree.tetrault@ctberk.com>  
**Date:** Wed, 16 Mar 2011 10:44:31 -0700  
**To:** <roszette.panis@ctberk.com>, <marte.villanueva@ctberk.com>

Please add Gravity separation (including the comment for TEHM) for the samples we receive from PES (a Blaine Tech COC) for the groundwater samples from 64th and Christie in Emeryville. I believe we should see the samples by the end of the day today.

Also, please use this email and add it to the COC as confirmation.

Thank you!

----- Original Message -----

**From:** Chris Baldassari  
**To:** desiree.tetrault@ctberk.com  
**Sent:** Wednesday, March 16, 2011 10:30 AM  
**Subject:** 241.082.02.001 - Groundwater samples from 6340 and 6390 Christie Ave., Emeryville

Desiree,

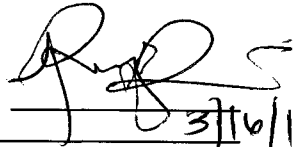
As we discussed, please provide Zemo gravity separation for groundwater samples that we are submitting to C&T from the above-referenced site (via Blaine Tech). Please call me with any questions.

Thanks,  
Chris

Christopher J. Baldassari  
Senior Geologist  
**PES Environmental, Inc.**  
1682 Novato Boulevard, Suite 100  
Novato, CA 94947  
415.899.1600 *office*  
415.497.2731 *cell*  
415.899.1601 *fax*  
[cbaldassari@pesenv.com](mailto:cbaldassari@pesenv.com)

Curtis & Tompkins Sample Preservation for 226664

Sample	pH: <2	>12	Other
-001a	[ ]	[ ]	_____
b	[ ]	[ ]	_____
c	[ ]	[ ]	_____
d	[ ]	[ ]	_____
e	<input checked="" type="checkbox"/>	[ ]	_____
f	[ ]	[ ]	_____
g	[ ]	[ ]	_____
-002a	[ ]	[ ]	_____
b	[ ]	[ ]	_____
c	[ ]	[ ]	_____
d	[ ]	[ ]	_____
e	<input checked="" type="checkbox"/>	[ ]	_____
f	[ ]	[ ]	_____
g	[ ]	[ ]	_____

Analyst:   
Date: 3/16/11

Total Extractable Hydrocarbons		
Lab #:	226664	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3520C
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Water	Sampled: 03/16/11
Units:	ug/L	Received: 03/16/11
Diln Fac:	1.000	Prepared: 03/21/11
Batch#:	172999	

Field ID: GW-8  
 Type: SAMPLE  
 Lab ID: 226664-001

Analyzed: 03/23/11  
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	1,000 Y	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	1,400	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	102	60-129
o-Terphenyl (SGCU)	105	60-129

Field ID: GW-9  
 Type: SAMPLE  
 Lab ID: 226664-002

Analyzed: 03/23/11  
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	3,600 Y	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	3,900	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	104	60-129
o-Terphenyl (SGCU)	98	60-129

Type: BLANK  
 Lab ID: QC584678

Analyzed: 03/22/11  
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	Limits
o-Terphenyl	94	60-129
o-Terphenyl (SGCU)	102	60-129

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit  
 SGCU= Silica gel cleanup

## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226664	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3520C
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Water	Batch#: 172999
Units:	ug/L	Prepared: 03/21/11
Diln Fac:	1.000	Analyzed: 03/22/11

Type: BS Cleanup Method: EPA 3630C  
 Lab ID: QC584679

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,124	85	53-128
Diesel C10-C24 (SGCU)	2,500	2,057	82	53-128

Surrogate	%REC	Limits
o-Terphenyl	94	60-129
o-Terphenyl (SGCU)	90	60-129

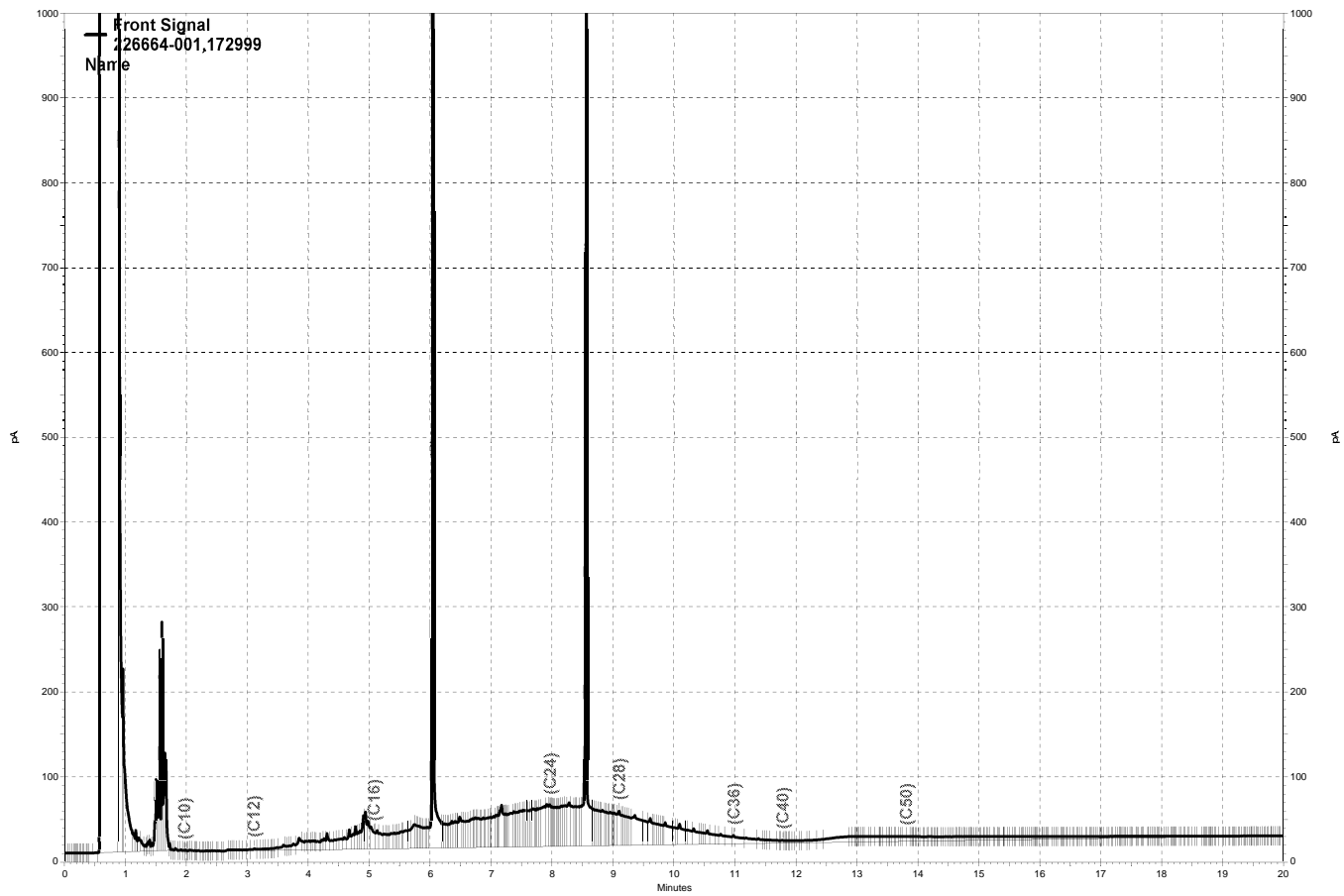
Type: BSD Cleanup Method: EPA 3630C  
 Lab ID: QC584680

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,093	84	53-128	1	48
Diesel C10-C24 (SGCU)	2,500	1,762	70	53-128	15	48

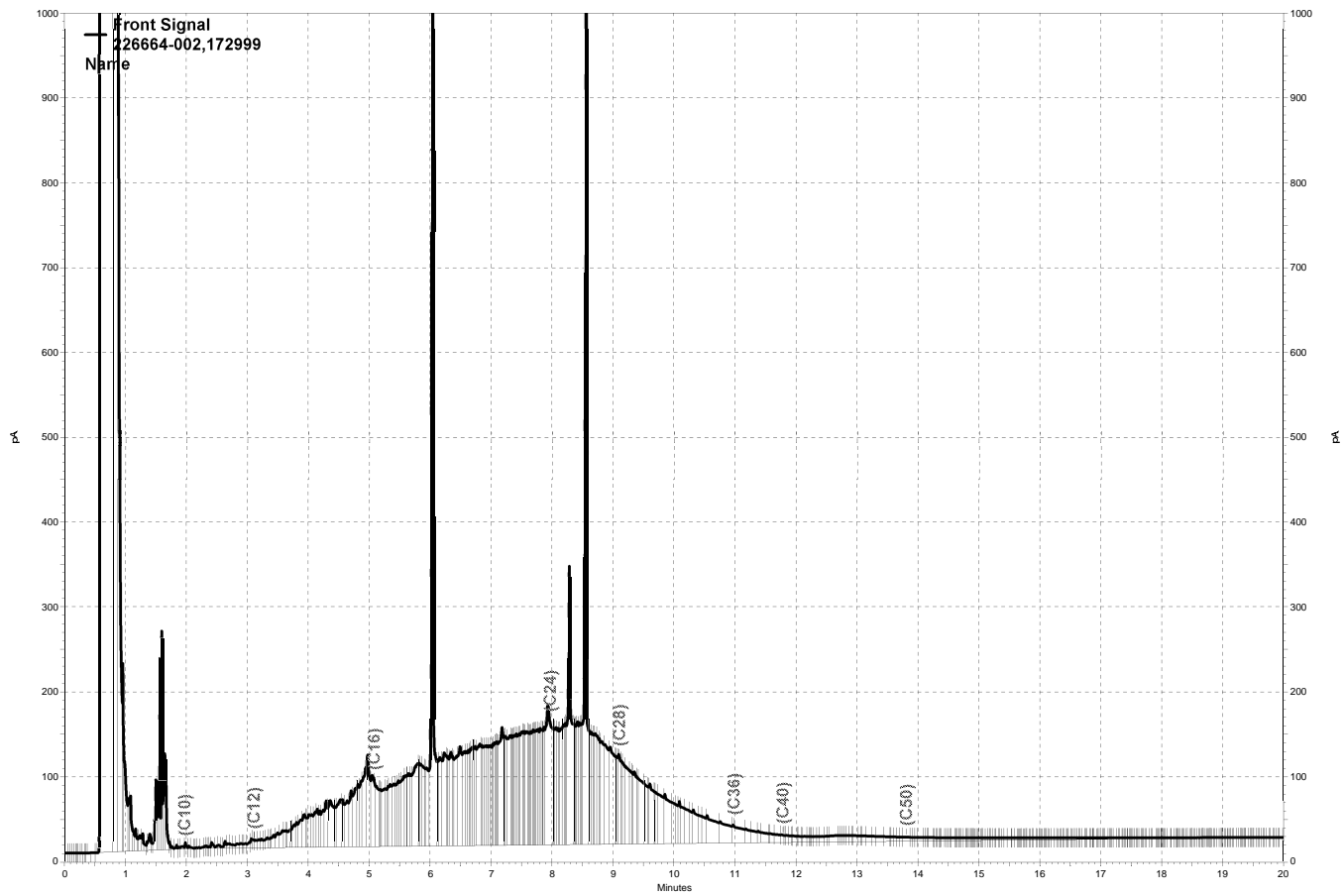
Surrogate	%REC	Limits
o-Terphenyl	93	60-129
o-Terphenyl (SGCU)	79	60-129

RPD= Relative Percent Difference  
 SGCU= Silica gel cleanup

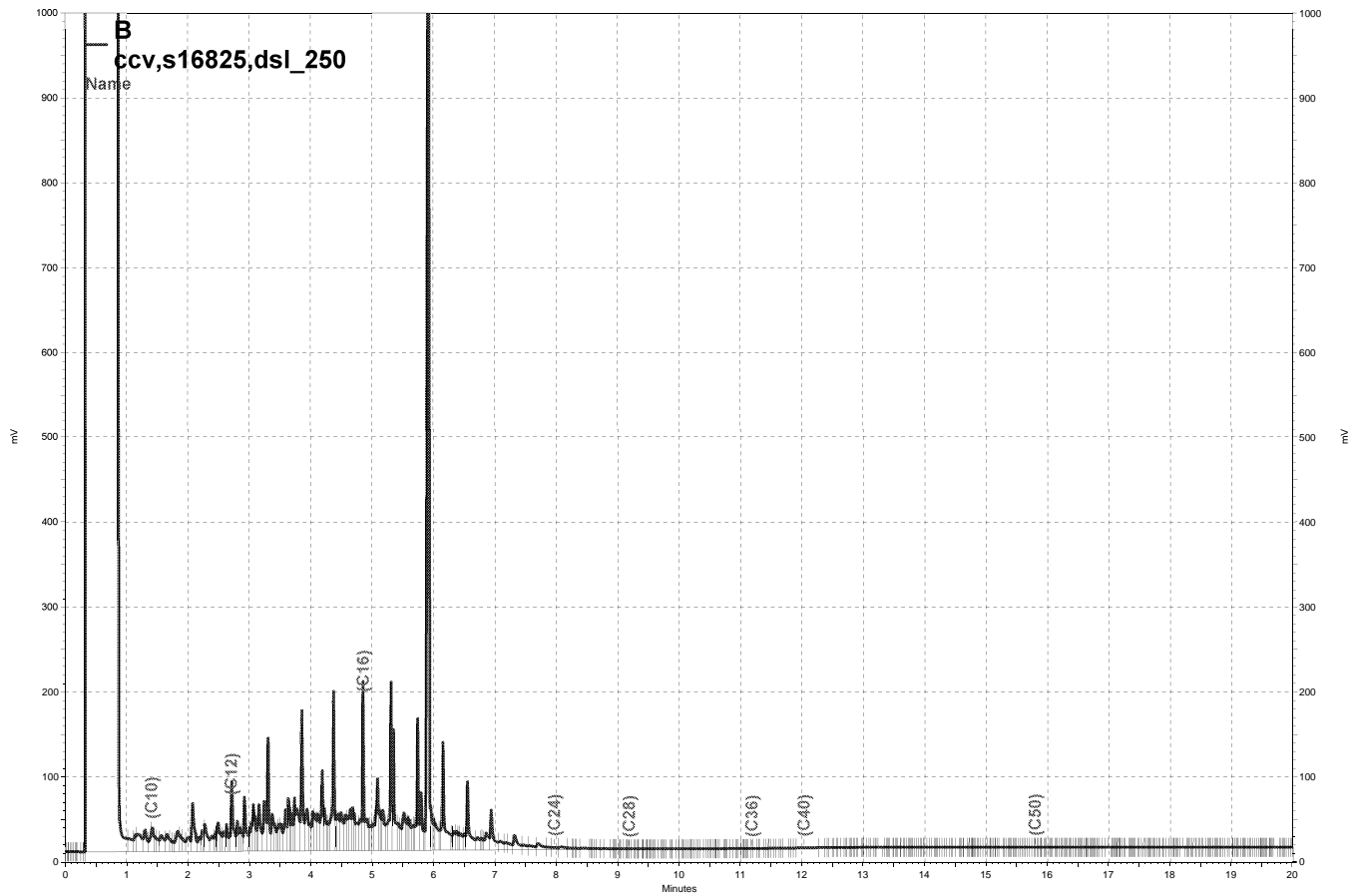




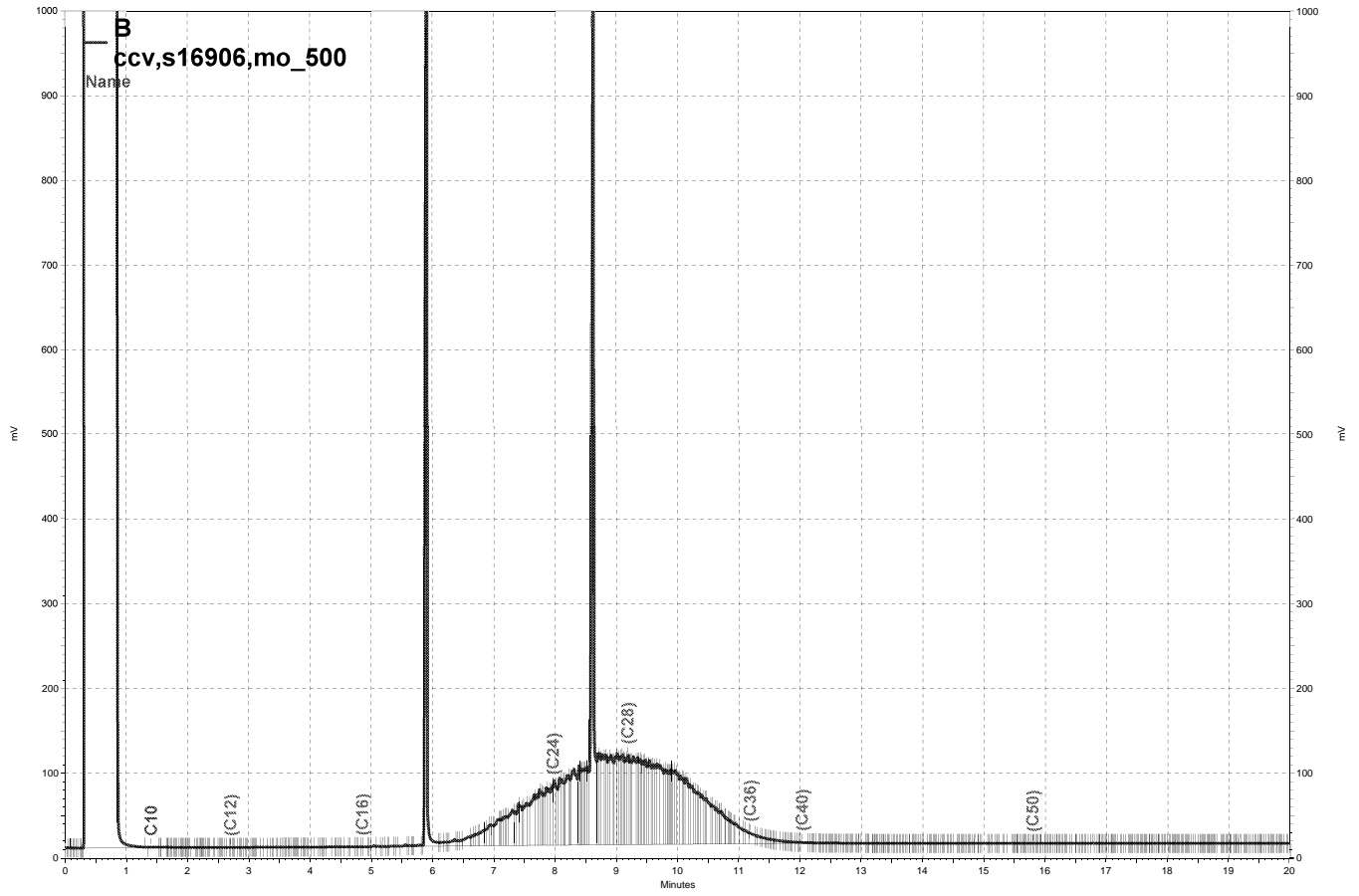
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— G:\ezchrom\Projects\GC27\Data\081a028.dat, Front Signal



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**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-8	Diln Fac:	1.000
Lab ID:	226664-001	Sampled:	03/16/11
Matrix:	Water	Received:	03/16/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Gasoline C7-C12	ND	50	173060
Freon 12	ND	1.0	173049
Chloromethane	ND	1.0	173049
Vinyl Chloride	ND	0.5	173049
Bromomethane	ND	1.0	173049
Chloroethane	ND	1.0	173049
Trichlorofluoromethane	ND	1.0	173049
Acetone	ND	10	173049
Freon 113	ND	2.0	173049
1,1-Dichloroethene	ND	0.5	173049
Methylene Chloride	ND	10	173049
Carbon Disulfide	ND	0.5	173049
MTBE	2.6	0.5	173049
trans-1,2-Dichloroethene	ND	0.5	173049
Vinyl Acetate	ND	10	173049
1,1-Dichloroethane	ND	0.5	173049
2-Butanone	ND	10	173049
cis-1,2-Dichloroethene	ND	0.5	173049
2,2-Dichloropropane	ND	0.5	173049
Chloroform	ND	0.5	173049
Bromochloromethane	ND	0.5	173049
1,1,1-Trichloroethane	ND	0.5	173049
1,1-Dichloropropene	ND	0.5	173049
Carbon Tetrachloride	ND	0.5	173049
1,2-Dichloroethane	ND	0.5	173049
Benzene	ND	0.5	173049
Trichloroethene	ND	0.5	173049
1,2-Dichloropropane	ND	0.5	173049
Bromodichloromethane	ND	0.5	173049
Dibromomethane	ND	0.5	173049
4-Methyl-2-Pentanone	ND	10	173049
cis-1,3-Dichloropropene	ND	0.5	173049
Toluene	ND	0.5	173049
trans-1,3-Dichloropropene	ND	0.5	173049
1,1,2-Trichloroethane	ND	0.5	173049
2-Hexanone	ND	10	173049
1,3-Dichloropropane	ND	0.5	173049
Tetrachloroethene	ND	0.5	173049

ND= Not Detected  
 RL= Reporting Limit

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-8	Diln Fac:	1.000
Lab ID:	226664-001	Sampled:	03/16/11
Matrix:	Water	Received:	03/16/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Dibromochloromethane	ND	0.5	173049
1,2-Dibromoethane	ND	0.5	173049
Chlorobenzene	ND	0.5	173049
1,1,1,2-Tetrachloroethane	ND	0.5	173049
Ethylbenzene	ND	0.5	173049
m,p-Xylenes	ND	0.5	173049
o-Xylene	ND	0.5	173049
Styrene	ND	0.5	173049
Bromoform	ND	1.0	173049
Isopropylbenzene	ND	0.5	173049
1,1,2,2-Tetrachloroethane	ND	0.5	173049
1,2,3-Trichloropropane	ND	0.5	173049
Propylbenzene	ND	0.5	173049
Bromobenzene	ND	0.5	173049
1,3,5-Trimethylbenzene	ND	0.5	173049
2-Chlorotoluene	ND	0.5	173049
4-Chlorotoluene	ND	0.5	173049
tert-Butylbenzene	ND	0.5	173049
1,2,4-Trimethylbenzene	ND	0.5	173049
sec-Butylbenzene	ND	0.5	173049
para-Isopropyl Toluene	ND	0.5	173049
1,3-Dichlorobenzene	ND	0.5	173049
1,4-Dichlorobenzene	ND	0.5	173049
n-Butylbenzene	ND	0.5	173049
1,2-Dichlorobenzene	ND	0.5	173049
1,2-Dibromo-3-Chloropropane	ND	2.0	173049
1,2,4-Trichlorobenzene	ND	0.5	173049
Hexachlorobutadiene	ND	2.0	173049
Naphthalene	ND	2.0	173049
1,2,3-Trichlorobenzene	ND	0.5	173049

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	107	80-125	173049
1,2-Dichloroethane-d4	101	71-146	173049
Toluene-d8	100	80-120	173049
Bromofluorobenzene	100	80-120	173049

ND= Not Detected  
 RL= Reporting Limit

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-9	Diln Fac:	1.000
Lab ID:	226664-002	Sampled:	03/16/11
Matrix:	Water	Received:	03/16/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Gasoline C7-C12	ND	50	173060
Freon 12	ND	1.0	173049
Chloromethane	ND	1.0	173049
Vinyl Chloride	ND	0.5	173049
Bromomethane	ND	1.0	173049
Chloroethane	ND	1.0	173049
Trichlorofluoromethane	ND	1.0	173049
Acetone	ND	10	173049
Freon 113	ND	2.0	173049
1,1-Dichloroethene	ND	0.5	173049
Methylene Chloride	ND	10	173049
Carbon Disulfide	ND	0.5	173049
MTBE	ND	0.5	173049
trans-1,2-Dichloroethene	ND	0.5	173049
Vinyl Acetate	ND	10	173049
1,1-Dichloroethane	ND	0.5	173049
2-Butanone	ND	10	173049
cis-1,2-Dichloroethene	ND	0.5	173049
2,2-Dichloropropane	ND	0.5	173049
Chloroform	ND	0.5	173049
Bromochloromethane	ND	0.5	173049
1,1,1-Trichloroethane	ND	0.5	173049
1,1-Dichloropropene	ND	0.5	173049
Carbon Tetrachloride	ND	0.5	173049
1,2-Dichloroethane	ND	0.5	173049
Benzene	ND	0.5	173049
Trichloroethene	ND	0.5	173049
1,2-Dichloropropane	ND	0.5	173049
Bromodichloromethane	ND	0.5	173049
Dibromomethane	ND	0.5	173049
4-Methyl-2-Pentanone	ND	10	173049
cis-1,3-Dichloropropene	ND	0.5	173049
Toluene	ND	0.5	173049
trans-1,3-Dichloropropene	ND	0.5	173049
1,1,2-Trichloroethane	ND	0.5	173049
2-Hexanone	ND	10	173049
1,3-Dichloropropane	ND	0.5	173049
Tetrachloroethene	ND	0.5	173049

ND= Not Detected  
 RL= Reporting Limit

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	GW-9	Diln Fac:	1.000
Lab ID:	226664-002	Sampled:	03/16/11
Matrix:	Water	Received:	03/16/11
Units:	ug/L	Analyzed:	03/23/11

Analyte	Result	RL	Batch#
Dibromochloromethane	ND	0.5	173049
1,2-Dibromoethane	ND	0.5	173049
Chlorobenzene	ND	0.5	173049
1,1,1,2-Tetrachloroethane	ND	0.5	173049
Ethylbenzene	ND	0.5	173049
m,p-Xylenes	ND	0.5	173049
o-Xylene	ND	0.5	173049
Styrene	ND	0.5	173049
Bromoform	ND	1.0	173049
Isopropylbenzene	ND	0.5	173049
1,1,2,2-Tetrachloroethane	ND	0.5	173049
1,2,3-Trichloropropane	ND	0.5	173049
Propylbenzene	ND	0.5	173049
Bromobenzene	ND	0.5	173049
1,3,5-Trimethylbenzene	ND	0.5	173049
2-Chlorotoluene	ND	0.5	173049
4-Chlorotoluene	ND	0.5	173049
tert-Butylbenzene	ND	0.5	173049
1,2,4-Trimethylbenzene	0.8	0.5	173049
sec-Butylbenzene	ND	0.5	173049
para-Isopropyl Toluene	ND	0.5	173049
1,3-Dichlorobenzene	ND	0.5	173049
1,4-Dichlorobenzene	ND	0.5	173049
n-Butylbenzene	ND	0.5	173049
1,2-Dichlorobenzene	ND	0.5	173049
1,2-Dibromo-3-Chloropropane	ND	2.0	173049
1,2,4-Trichlorobenzene	ND	0.5	173049
Hexachlorobutadiene	ND	2.0	173049
Naphthalene	ND	2.0	173049
1,2,3-Trichlorobenzene	ND	0.5	173049

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	107	80-125	173049
1,2-Dichloroethane-d4	101	71-146	173049
Toluene-d8	99	80-120	173049
Bromofluorobenzene	99	80-120	173049

ND= Not Detected  
 RL= Reporting Limit



**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	173049
Units:	ug/L	Analyzed:	03/23/11
Diln Fac:	1.000		

Type: BS Lab ID: QC584890

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	19.57	78	65-138
Benzene	25.00	25.39	102	80-124
Trichloroethene	25.00	25.93	104	78-122
Toluene	25.00	24.35	97	80-120
Chlorobenzene	25.00	25.18	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-125
1,2-Dichloroethane-d4	102	71-146
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-120

Type: BSD Lab ID: QC584891

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	25.00	19.24	77	65-138	2	20
Benzene	25.00	24.61	98	80-124	3	20
Trichloroethene	25.00	25.58	102	78-122	1	20
Toluene	25.00	24.17	97	80-120	1	20
Chlorobenzene	25.00	24.83	99	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-125
1,2-Dichloroethane-d4	100	71-146
Toluene-d8	99	80-120
Bromofluorobenzene	96	80-120

RPD= Relative Percent Difference

**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584892	Batch#:	173049
Matrix:	Water	Analyzed:	03/23/11
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	NA	
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5

NA= Not Analyzed  
 ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584892	Batch#:	173049
Matrix:	Water	Analyzed:	03/23/11
Units:	ug/L		

Analyte	Result	RL
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-125
1,2-Dichloroethane-d4	101	71-146
Toluene-d8	99	80-120
Bromofluorobenzene	100	80-120

NA= Not Analyzed  
 ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584934	Batch#:	173060
Matrix:	Water	Analyzed:	03/23/11
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	ND	50
Freon 12	NA	
Chloromethane	NA	
Vinyl Chloride	NA	
Bromomethane	NA	
Chloroethane	NA	
Trichlorofluoromethane	NA	
Acetone	NA	
Freon 113	NA	
1,1-Dichloroethene	NA	
Methylene Chloride	NA	
Carbon Disulfide	NA	
MTBE	NA	
trans-1,2-Dichloroethene	NA	
Vinyl Acetate	NA	
1,1-Dichloroethane	NA	
2-Butanone	NA	
cis-1,2-Dichloroethene	NA	
2,2-Dichloropropane	NA	
Chloroform	NA	
Bromochloromethane	NA	
1,1,1-Trichloroethane	NA	
1,1-Dichloropropene	NA	
Carbon Tetrachloride	NA	
1,2-Dichloroethane	NA	
Benzene	NA	
Trichloroethene	NA	
1,2-Dichloropropane	NA	
Bromodichloromethane	NA	
Dibromomethane	NA	
4-Methyl-2-Pentanone	NA	
cis-1,3-Dichloropropene	NA	
Toluene	NA	
trans-1,3-Dichloropropene	NA	
1,1,2-Trichloroethane	NA	
2-Hexanone	NA	
1,3-Dichloropropane	NA	
Tetrachloroethene	NA	
Dibromochloromethane	NA	
1,2-Dibromoethane	NA	
Chlorobenzene	NA	
1,1,1,2-Tetrachloroethane	NA	
Ethylbenzene	NA	
m,p-Xylenes	NA	
o-Xylene	NA	
Styrene	NA	
Bromoform	NA	
Isopropylbenzene	NA	
1,1,2,2-Tetrachloroethane	NA	
1,2,3-Trichloropropane	NA	
Propylbenzene	NA	
Bromobenzene	NA	

\*= Value outside of QC limits; see narrative

NA= Not Analyzed

ND= Not Detected

RL= Reporting Limit

## Batch QC Report

**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584934	Batch#:	173060
Matrix:	Water	Analyzed:	03/23/11
Units:	ug/L		

Analyte	Result	RL
1,3,5-Trimethylbenzene	NA	
2-Chlorotoluene	NA	
4-Chlorotoluene	NA	
tert-Butylbenzene	NA	
1,2,4-Trimethylbenzene	NA	
sec-Butylbenzene	NA	
para-Isopropyl Toluene	NA	
1,3-Dichlorobenzene	NA	
1,4-Dichlorobenzene	NA	
n-Butylbenzene	NA	
1,2-Dichlorobenzene	NA	
1,2-Dibromo-3-Chloropropane	NA	
1,2,4-Trichlorobenzene	NA	
Hexachlorobutadiene	NA	
Naphthalene	NA	
1,2,3-Trichlorobenzene	NA	

Surrogate	%REC	Limits
Dibromofluoromethane	116	80-125
1,2-Dichloroethane-d4	149 *	71-146
Toluene-d8	115	80-120
Bromofluorobenzene	141 *	80-120

\*= Value outside of QC limits; see narrative  
 NA= Not Analyzed  
 ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**
**Curtis & Tompkins Laboratories Analytical Report**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5030B
Project#:	241.082.02.001	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	173060
Units:	ug/L	Analyzed:	03/23/11
Diln Fac:	1.000		

Type: BS Lab ID: QC584935

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	800.0	786.2	98	70-130

Surrogate	%REC	Limits
Dibromofluoromethane	115	80-125
1,2-Dichloroethane-d4	145	71-146
Toluene-d8	110	80-120
Bromofluorobenzene	131 *	80-120

Type: BSD Lab ID: QC584936

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	800.0	804.3	101	70-130	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	115	80-125
1,2-Dichloroethane-d4	138	71-146
Toluene-d8	109	80-120
Bromofluorobenzene	132 *	80-120

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

**Dissolved California Title 22 Metals**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001		
Field ID:	GW-8	Diln Fac:	1.000
Lab ID:	226664-001	Sampled:	03/16/11
Matrix:	Filtrate	Received:	03/16/11
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	172852	03/16/11	03/27/11	EPA 6010B
Arsenic	ND	7.1	172852	03/16/11	03/26/11	EPA 6010B
Barium	400	5.0	172852	03/16/11	03/26/11	EPA 6010B
Beryllium	ND	2.0	172852	03/16/11	03/26/11	EPA 6010B
Cadmium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Chromium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Cobalt	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Copper	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Lead	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Mercury	ND	0.20	173021	03/22/11	03/22/11	EPA 7470A
Molybdenum	24	5.0	172852	03/16/11	03/26/11	EPA 6010B
Nickel	12	5.0	172852	03/16/11	03/26/11	EPA 6010B
Selenium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Silver	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Thallium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Vanadium	9.8	5.0	172852	03/16/11	03/26/11	EPA 6010B
Zinc	ND	20	172852	03/16/11	03/27/11	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**Dissolved California Title 22 Metals**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001		
Field ID:	GW-9	Diln Fac:	1.000
Lab ID:	226664-002	Sampled:	03/16/11
Matrix:	Filtrate	Received:	03/16/11
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Analysis
Antimony	ND	10	172852	03/16/11	03/27/11	EPA 6010B
Arsenic	ND	7.1	172852	03/16/11	03/26/11	EPA 6010B
Barium	690	5.0	172852	03/16/11	03/26/11	EPA 6010B
Beryllium	ND	2.0	172852	03/16/11	03/26/11	EPA 6010B
Cadmium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Chromium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Cobalt	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Copper	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Lead	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Mercury	ND	0.20	173021	03/22/11	03/22/11	EPA 7470A
Molybdenum	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Nickel	7.5	5.0	172852	03/16/11	03/26/11	EPA 6010B
Selenium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Silver	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Thallium	ND	10	172852	03/16/11	03/26/11	EPA 6010B
Vanadium	ND	5.0	172852	03/16/11	03/26/11	EPA 6010B
Zinc	ND	20	172852	03/16/11	03/27/11	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



## Batch QC Report

**Dissolved California Title 22 Metals**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584117	Batch#:	172852
Matrix:	Filtrate	Prepared:	03/16/11
Units:	ug/L	Analyzed:	03/26/11

Analyte	Result	RL
Antimony	ND	10
Arsenic	ND	7.1
Barium	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	5.0
Cobalt	ND	5.0
Copper	ND	5.0
Lead	ND	5.0
Molybdenum	ND	5.0
Nickel	ND	5.0
Selenium	ND	10
Silver	ND	5.0
Thallium	ND	10
Vanadium	ND	5.0
Zinc	ND	20

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

Dissolved California Title 22 Metals			
Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 6010B
Matrix:	Filtrate	Batch#:	172852
Units:	ug/L	Prepared:	03/16/11
Diln Fac:	1.000	Analyzed:	03/26/11

Type: BS Lab ID: QC584118

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	510.6	102	75-120
Arsenic	100.0	99.13	99	80-124
Barium	2,000	1,985	99	80-120
Beryllium	50.00	51.73	103	80-120
Cadmium	50.00	50.95	102	80-120
Chromium	200.0	196.8	98	77-120
Cobalt	500.0	479.8	96	78-120
Copper	250.0	230.9	92	74-120
Lead	100.0	97.49	97	75-120
Molybdenum	400.0	413.2	103	80-120
Nickel	500.0	489.7	98	78-120
Selenium	100.0	98.77	99	78-121
Silver	50.00	50.06	100	78-120
Thallium	100.0	104.9	105	79-120
Vanadium	500.0	506.7	101	80-120
Zinc	500.0	507.3	101	79-120

Type: BSD Lab ID: QC584119

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	523.7	105	75-120	3	20
Arsenic	100.0	99.87	100	80-124	1	20
Barium	2,000	2,017	101	80-120	2	20
Beryllium	50.00	52.66	105	80-120	2	20
Cadmium	50.00	52.73	105	80-120	3	20
Chromium	200.0	202.3	101	77-120	3	20
Cobalt	500.0	496.4	99	78-120	3	20
Copper	250.0	243.1	97	74-120	5	20
Lead	100.0	100.9	101	75-120	3	20
Molybdenum	400.0	425.1	106	80-120	3	20
Nickel	500.0	505.3	101	78-120	3	20
Selenium	100.0	103.6	104	78-121	5	20
Silver	50.00	50.87	102	78-120	2	20
Thallium	100.0	109.8	110	79-120	5	20
Vanadium	500.0	513.8	103	80-120	1	20
Zinc	500.0	525.3	105	79-120	3	20

RPD= Relative Percent Difference

**Batch QC Report**
**Dissolved California Title 22 Metals**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	172852
MSS Lab ID:	226619-001	Sampled:	03/14/11
Matrix:	Filtrate	Received:	03/15/11
Units:	ug/L	Prepared:	03/16/11
Diln Fac:	1.000	Analyzed:	03/26/11

Type: MS Lab ID: QC584120

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<1.774	500.0	496.6	99	67-120
Arsenic	47.11	100.0	150.7	104	70-132
Barium	4.625	2,000	1,886	94	72-120
Beryllium	<0.2014	50.00	50.03	100	78-121
Cadmium	<1.150	50.00	46.66	93	69-122
Chromium	2.686	200.0	189.1	93	71-120
Cobalt	1.216	500.0	463.9	93	70-120
Copper	<1.614	250.0	239.2	96	65-120
Lead	<1.610	100.0	87.67	88	62-120
Molybdenum	3.982	400.0	399.5	99	76-120
Nickel	4.739	500.0	465.3	92	65-120
Selenium	<2.501	100.0	98.84	99	67-127
Silver	<1.586	50.00	47.48	95	61-120
Thallium	<3.020	100.0	101.5	101	64-121
Vanadium	6.538	500.0	485.3	96	73-120
Zinc	<3.104	500.0	491.2	98	67-123

Type: MSD Lab ID: QC584121

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	508.0	102	67-120	2	20
Arsenic	100.0	146.9	100	70-132	3	28
Barium	2,000	1,874	93	72-120	1	26
Beryllium	50.00	49.34	99	78-121	1	20
Cadmium	50.00	46.26	93	69-122	1	23
Chromium	200.0	189.5	93	71-120	0	23
Cobalt	500.0	458.6	91	70-120	1	23
Copper	250.0	236.0	94	65-120	1	27
Lead	100.0	89.10	89	62-120	2	24
Molybdenum	400.0	401.8	99	76-120	1	24
Nickel	500.0	462.0	91	65-120	1	23
Selenium	100.0	96.22	96	67-127	3	28
Silver	50.00	47.25	95	61-120	0	25
Thallium	100.0	95.93	96	64-121	6	23
Vanadium	500.0	484.0	95	73-120	0	24
Zinc	500.0	485.0	97	67-123	1	25

RPD= Relative Percent Difference

## Batch QC Report

Dissolved California Title 22 Metals			
Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	173021
Lab ID:	QC584765	Prepared:	03/22/11
Matrix:	Filtrate	Analyzed:	03/22/11
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

**Dissolved California Title 22 Metals**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	173021
Matrix:	Filtrate	Prepared:	03/22/11
Units:	ug/L	Analyzed:	03/22/11
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584766	2.500	2.530	101	80-120		
BSD	QC584767	2.500	2.440	98	80-120	4	20

RPD= Relative Percent Difference

## Batch QC Report

**Dissolved California Title 22 Metals**

Lab #:	226664	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	173021
Field ID:	ZZZZZZZZZZ	Sampled:	03/10/11
MSS Lab ID:	226517-015	Received:	03/10/11
Matrix:	Filtrate	Prepared:	03/22/11
Units:	ug/L	Analyzed:	03/22/11
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584768	<0.03335	2.500	2.630	105	79-120		
MSD	QC584769		2.500	2.560	102	79-120	3	20

RPD= Relative Percent Difference



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





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

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

Laboratory Job Number 226688
ANALYTICAL REPORT

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

Project : 241.082.02.001
Location : 64th & Christie Emeryville, CA
Level : II

Table with 4 columns: Sample ID, Lab ID, Sample ID, Lab ID. Lists various sample and lab identifiers such as SB-25-2.5, 226688-001, SB-31-2.5, 226688-015.

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

Desiree N. Tetrault

Signature: Project Manager

Date: 03/30/2011



## CASE NARRATIVE

Laboratory number: 226688  
Client: PES Environmental, Inc.  
Project: 241.082.02.001  
Location: 64th & Christie Emeryville, CA  
Request Date: 03/16/11  
Samples Received: 03/16/11

This data package contains sample and QC results for twenty six soil samples, requested for the above referenced project on 03/16/11. The samples were received cold and intact.

### TPH-Purgeables and/or BTXE by GC (EPA 8015B):

High surrogate recoveries were observed for bromofluorobenzene (FID) in a number of samples. No other analytical problems were encountered.

### TPH-Extractables by GC (EPA 8015B):

Matrix spikes QC584512, QC584513 (batch 172955) were not reported because the parent sample was reextracted in another batch. Low recoveries were observed for diesel C10-C24 in the MS/MSD of SB-20-1.5 (lab # 226712-001); the LCS was within limits, and the associated RPD was within limits. Low surrogate recoveries were observed for o-terphenyl in the MS/MSD of SB-20-1.5 (lab # 226712-001). Many samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

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

Matrix spikes were not performed for this analysis in batch 172953 due to insufficient sample amount. Matrix spikes were not performed for this analysis in batch 172973 due to insufficient sample amount. High surrogate recovery was observed for bromofluorobenzene in SB-29-12.5 (lab # 226688-006). A number of samples were diluted due to high hydrocarbons. SB-29-16.0 (lab # 226688-007) was not diluted; the low sample weight is due to 5035 packaging. No other analytical problems were encountered.

### Semivolatile Organics by GC/MS (EPA 8270C):

No analytical problems were encountered.

### Metals (EPA 6010B and EPA 7471A):

High recoveries were observed for barium and lead in the MS of SB-25-2.5 (lab # 226688-001); the BS/BSD were within limits. High RPD was observed for barium in the MS/MSD of SB-25-2.5 (lab # 226688-001); the RPD was acceptable in the BS/BSD. High recovery was observed for lead in the MSD of SB-13-2.5 (lab # 226637-021); the BS/BSD were within limits, and the associated RPD was within limits. High recovery was observed for mercury in the MSD of SB-25-2.5 (lab # 226688-001); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

LABORATORY: C+1  
JOB NUMBER: 241.082.02.001  
NAME / LOCATION: 64th + Emeryville 64th + Christie/Emeryville, CA  
PROJECT MANAGER: W. Mast  
SAMPLERS: K. Simmons/J. Alexander  
RECORDER: K. Simmons

	DATE				SAMPLE NUMBER / DESIGNATION
	YR	MO	DY	TIME	
1	11	03	16	0825	SB-25-2.5
2				0830	SB-25-7.5
3				0835	SB-25-12.5
4				0900	SB-29-2.5
5				0905	SB-29-7.5
6				0910	SB-29-12.5
7				0935	SB-29-16.0
8				0940	SB-29-20.0
9				0930	SB-16-2.5
10				0935	SB-16-7.5
11				0940	SB-16-12.5
12				1010	SB-17-2.5

MATRIX				# of Containers & Preservatives								DEPTH IN FEET		
Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	Water				
		X		1					1	2				
										4				
										2				
										4				
										4				
										4				
										4				
										4				
										4				
										4				
										4				
										4				
										2				
										2				
										2				
										2				

ANALYSIS REQUESTED																
EPA 5035/8010																
EPA 5035/8021																
EPA 5035/8260B - VOCs																
TPHg by 5035/8015M																
TPHd by 8015M 2 w/																
TPHm by 8015M 5 SLC																
EPA 8270C - SVOCs																
MNA Parameters (see notes)																
8260 BTEX																
T22 Metals-6010B																

NOTES	CHAIN OF CUSTODY RECORD			
Turn Around Time: <u>Standard TAT</u>	RELINQUISHED BY: <u>(Signature)</u>	RECEIVED BY: <u>(Signature)</u>	DATE	TIME
- please retain samples after analysis for potential future STLC/TCLP	<u>(Signature)</u>	<u>(Signature)</u>	3/16/11	1630
* please [HOLD] SB-29-20.0	RELINQUISHED BY: <u>(Signature)</u>	RECEIVED BY: <u>(Signature)</u>	DATE	TIME
	RELINQUISHED BY: <u>(Signature)</u>	RECEIVED BY: <u>(Signature)</u>	DATE	TIME
	DISPATCHED BY: <u>(Signature)</u>	DATE	TIME	RECEIVED FOR LAB BY: <u>(Signature)</u>
	METHOD OF SHIPMENT:			

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LABORATORY: C+T  
JOB NUMBER: 241.082.02.001  
NAME / LOCATION: 64<sup>th</sup> + Christie / Emeryville, CA  
PROJECT MANAGER: W. Mast

SAMPLERS: K. Simmons / S. Alexander  
RECORDER: K. Simmons

ANALYSIS REQUESTED			
EPA 5035/8010			
EPA 5035/8021			
EPA 5035/8260B - BTEX			
TPHg by 5035/8015M	X	X	X
TPHd by 8015M	X	X	X
TPHmo by 8015M	X	X	X
EPA 8270C			
MNA Parameters (see notes)			
			X 22 Metals - 601B

DATE	SAMPLE NUMBER / DESIGNATION			
	YR	MO	DY	TIME
13	11	03	16	1015 SB-17-7.5
14			1020 SB-17-12.5	
15			1100 SB-31-2.5	
16			1105 SB-31-7.5	
17			1110 SB-31-12.5	
18			1115 SB-31-16.0	
19			1120 SB-31-20.0	
20			1205 SB-32-2.5	
21			1210 SB-32-7.5	
22			1215 SB-32-11.0	
23			1350 SB-27-2.5	
24			1355 SB-27-7.5	

MATRIX	# of Containers & Preservatives						DEPTH IN FEET
	Vapor	Water	Soil	Sediment	Unpres.	EnCore	
			X		1		
							12
							2
							4
							4
							4
							4
							4
							2
							2
							2
							2

13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24

[HOLD]\*

NOTES

Turn Around Time: Standard TAT

- please retain sample after analysis for potential future STLC/TCLP

\* - please [HOLD] SB-31-20.0

Page 2 of 3

CHAIN OF CUSTODY RECORD			
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
<i>[Signature]</i>	<i>[Signature]</i>	3/16/11	1630
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)
METHOD OF SHIPMENT:			

LABORATORY: C&T  
JOB NUMBER: 241-082.02.001  
NAME / LOCATION: 64<sup>th</sup> + Christie / Emeryville, CA  
PROJECT MANAGER: W. Mast

SAMPLERS: K. Simmons / J. Alexander  
RECORDER: K. Simmons

DATE				SAMPLE NUMBER / DESIGNATION
YR	MO	DY	TIME	
25	1	03	161400	SB-27-12.5
26			1510	SB-24-2.5
27			1515	SB-24-7.5
28			1520	SB-24-12.5

MATRIX				# of Containers & Preservatives							DEPTH IN FEET
Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol	Water	
		X		1					1	2	

ANALYSIS REQUESTED										
EPA 5035/8010										
EPA 5035/8021										
EPA 5035/8260B										
TPHg by 5035/8015M				X	X	X				
TPHd by 8015M 2w/										
TPHmo by 8015M 5 Sbc										
EPA 8270C										
MNA Parameters (see notes)										
122 Metals - 6000B				X						

**NOTES**  
Turn Around Time: Standard TAT  
- please retain samples after analysis for possible future STLL/TCLP

CHAIN OF CUSTODY RECORD					
RELINQUISHED BY: (Signature)	<u>[Signature]</u>		RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	<u>[Signature]</u>		RECEIVED BY: (Signature)	3/16/11	1630
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)			RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:					

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COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 226688 Date Received 3/16/11 Number of coolers 2
Client PES Project 64# & CHRISTIE

Date Opened 3/16/11 By (print) M. MILLONIE (sign) [Signature]
Date Logged in 3/17/11 By (print) [Signature] (sign) [Signature]

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

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

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

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

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

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

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

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

7. Temperature documentation:

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

Samples Received on ice & cold without a temperature blank

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

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

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

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

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

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

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

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

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

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

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

**Desiree Tetrault**

---

**From:** "Chris Baldassari" <cbaldassari@pesenv.com>  
**To:** "Desiree Tetrault" <desiree.tetrault@ctberk.com>; "Ken Simmons" <KSimmons@pesenv.com>  
**Sent:** Monday, March 21, 2011 12:56 PM  
**Subject:** RE: 241.082 adjustments

Hi Desiree,

We don't need gravity separation for the sample, but would like silica-gel cleanup performed; please no reporting/analysis for without silica gel.

The digestion fee on analyses started already sounds fair to me; we just want to be clear on which ones shouldn't have metals reported (indicated in the COCs sent by Kenny)

Thanks,  
 Chris

---

**From:** Desiree Tetrault [mailto:desiree.tetrault@ctberk.com]  
**Sent:** Monday, March 21, 2011 12:52 PM  
**To:** Ken Simmons  
**Cc:** Chris Baldassari  
**Subject:** Re: 241.082 adjustments

Hey Ken and Chris- thanks for the update. There shouldn't be any problems changing the IDs and the requests for analyses, although for logins 226688 and 226712 we have already prepped the samples for the metals. I can remove the analyses that you listed, but will have to charge a \$10 digestion fee for the ones already started.

Could you confirm that you do or do not need gravity separation for the last water sample (226732-001) submitted on Friday? Also, do you need the results to be reported with and without silica gel cleanup?

Thank you and please feel free to call with any questions.

Desirée Tétrault  
 Project Manager  
 Curtis and Tompkins, Ltd  
 2323 Fifth Street  
 Berkeley CA 94710  
 510.204.2221  
[www.curtisandtompkins.com](http://www.curtisandtompkins.com)

----- Original Message -----

**From:** Ken Simmons  
**To:** [desiree.tetrault@ctberk.com](mailto:desiree.tetrault@ctberk.com)  
**Cc:** Chris Baldassari  
**Sent:** Monday, March 21, 2011 10:58 AM  
**Subject:** 241.082 adjustments

Morning Desiree –

After reviewing the log-in sheets and COCs, there are a few adjustments to sample names and analysis that we would like to see.



# CHAIN OF CUSTODY RECORD

226688  
1682 NOVATO BOULEVARD, SUITE 100  
NOVATO, CALIFORNIA 94947  
(415) 899-1600 FAX (415) 899-1601

LABORATORY: C&T  
JOB NUMBER: 241.082.02.001  
NAME / LOCATION: 64th + Ehrstic / Emeryville, CA  
PROJECT MANAGER: W. Mast  
SAMPLERS: K. Simmons / D. Alexander  
RECORDER: K. Simmons

	DATE				SAMPLE NUMBER / DESIGNATION
	YR	MO	DY	TIME	
13	11	03	16	1015	SB-17-7.5 6.0
14				1020	SB-17-12.5
15				1100	SB-31-2.5
16				1105	SB-31-7.5
17				1110	SB-31-12.5
18				1115	SB-31-16.0
19				1120	SB-31-20.0
20				1205	SB-32-2.5
21				1210	SB-32-7.5
22				1215	SB-32-11.0
23				1350	SB-27-2.5
24				1355	SB-27-7.5

MATRIX	# of Containers & Preservatives							DEPTH IN FEET
	Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	
		X			1			12
								2
								4
								4
								4
								4
								2
								2
								2
								2
								2

ANALYSIS REQUESTED										
EPA 5035/8010										
EPA 5035/8021										
EPA 5035/8280B - BTEX										
TPHg by 5035/8015M										
TPHd by 8015M 2 w/										
TPHm by 8015M 3 Sal										
EPA 8270C										
MNA Parameters (see notes)										
T 22 MCLs - 60dB										

NOTES		CHAIN OF CUSTODY RECORD			
Turn Around Time: <u>Standard TAT</u>		RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
		<i>[Signature]</i>	<i>[Signature]</i>	3/16/11	1630
- please retain sampler after analysis for potential future STLC/TCLP		RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
* please [HOLD] SB-31-20.0		RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
		DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)
		METHOD OF SHIPMENT:			

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# CHAIN OF CUSTODY RECORD

LABORATORY: CA  
JOB NUMBER: 241.082.02.001  
NAME / LOCATION: 64<sup>th</sup> + Christie / Emeryville, CA  
PROJECT MANAGER: W. Nasst

SAMPLERS: K. Simmons / J. Alexander  
RECORDER: K. Simmons

DATE				SAMPLE NUMBER / DESIGNATION
YR	MO	DY	TIME	
25	11	03	16	1400 SB-27-12.5
26	11	11	15	10 SB-24-12.5
27	11	11	15	15 SB-24-12.5
28	11	11	15	20 SB-24-12.5

MATRIX				# of Containers & Preservatives						DEPTH IN FEET	
Vapor	Water	Soil	Sedim't	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Methanol		Water
		X		1					1	2	

ANALYSIS REQUESTED										
EPA 5035/8010	EPA 5035/8021	EPA 5035/8290B	TPHg by 5035/8015M	TPHd by 8015M	TPHmo by 8015M	EPA 8270C	MVA Parameters (see notes)			
			X	X	X		X			

**NOTES**  
Turn Around Time: Standard TAT  
• please retain samples after analysis for possible future STC/TCLP

CHAIN OF CUSTODY RECORD					
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
<i>Thy Sir</i>	<i>J. Alexander</i>		3/16/11	1630	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		DATE	TIME	
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:					

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Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID: SB-25-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172931  
 Lab ID: 226688-001 Analyzed: 03/18/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	67-140

Field ID: SB-25-7.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172931  
 Lab ID: 226688-002 Analyzed: 03/18/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	67-140

Field ID: SB-25-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172931  
 Lab ID: 226688-003 Analyzed: 03/18/11

Analyte	Result	RL
Gasoline C7-C12	0.53 Y	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	67-140

Field ID: SB-29-2.5 Diln Fac: 20.00  
 Type: SAMPLE Batch#: 172985  
 Lab ID: 226688-004 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	710 Y	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	161 *	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID: SB-29-7.5 Diln Fac: 1,000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226688-005 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	9,700 Y	1,000

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	67-140

Field ID: SB-29-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172985  
 Lab ID: 226688-006 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	2.6 Y	0.25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	148 *	67-140

Field ID: SB-29-16.0 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172985  
 Lab ID: 226688-007 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	72	67-140

Field ID: SB-16-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172931  
 Lab ID: 226688-009 Analyzed: 03/18/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID: SB-16-7.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172931  
 Lab ID: 226688-010 Analyzed: 03/18/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	67-140

Field ID: SB-16-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172931  
 Lab ID: 226688-011 Analyzed: 03/18/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	67-140

Field ID: SB-17-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172931  
 Lab ID: 226688-012 Analyzed: 03/19/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	67-140

Field ID: SB-17-6.0 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172931  
 Lab ID: 226688-013 Analyzed: 03/19/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID:	SB-17-12.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172931
Lab ID:	226688-014	Analyzed:	03/19/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	67-140

Field ID:	SB-31-2.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172931
Lab ID:	226688-015	Analyzed:	03/19/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	67-140

Field ID:	SB-31-7.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172985
Lab ID:	226688-016	Analyzed:	03/21/11

Analyte	Result	RL
Gasoline C7-C12	6.2 Y	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	136	67-140

Field ID:	SB-31-12.5	Diln Fac:	100.0
Type:	SAMPLE	Batch#:	172985
Lab ID:	226688-017	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	1,600 Y	100

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	134	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID:	SB-31-16.0	Diln Fac:	100.0
Type:	SAMPLE	Batch#:	172985
Lab ID:	226688-018	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	460 Y	100

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	67-140

Field ID:	SB-32-2.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172985
Lab ID:	226688-020	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

Field ID:	SB-32-7.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172931
Lab ID:	226688-021	Analyzed:	03/19/11

Analyte	Result	RL
Gasoline C7-C12	3.1 Y	0.19

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	128	67-140

Field ID:	SB-32-11.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172931
Lab ID:	226688-022	Analyzed:	03/19/11

Analyte	Result	RL
Gasoline C7-C12	2.3 Y	0.19

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	125	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID: SB-27-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172985  
 Lab ID: 226688-023 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	0.90 Y	0.19

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	67-140

Field ID: SB-27-7.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172985  
 Lab ID: 226688-024 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	0.46 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	67-140

Field ID: SB-27-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172985  
 Lab ID: 226688-025 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	4.7	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	145 *	67-140

Field ID: SB-24-1.5 Diln Fac: 20.00  
 Type: SAMPLE Batch#: 173026  
 Lab ID: 226688-026 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	560 Y	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	259 *	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID: SB-24-5.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 173026  
 Lab ID: 226688-027 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	1.2 Y	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	150 *	67-140

Field ID: SB-24-12.0 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 173026  
 Lab ID: 226688-028 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	0.79	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	67-140

Type: BLANK Batch#: 172931  
 Lab ID: QC584419 Analyzed: 03/18/11  
 Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	88	67-140

Type: BLANK Batch#: 172985  
 Lab ID: QC584624 Analyzed: 03/21/11  
 Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit



Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Type:	BLANK	Batch#:	172998
Lab ID:	QC584677	Analyzed:	03/21/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	67-140

Type:	BLANK	Batch#:	173026
Lab ID:	QC584791	Analyzed:	03/22/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172931
Units:	mg/Kg	Analyzed: 03/18/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584417

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.020	102	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	67-140

Type: BSD Lab ID: QC584418

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	0.9874	99	79-121	3	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	67-140

RPD= Relative Percent Difference

## Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172985
Units:	mg/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584622

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.019	102	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	67-140

Type: BSD Lab ID: QC584623

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	0.9892	99	79-121	3	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	67-140

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172998
Units:	mg/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584675

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.057	106	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Type: BSD Lab ID: QC584676

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.063	106	79-121	1	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	67-140

RPD= Relative Percent Difference

## Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 173026
Units:	mg/Kg	Analyzed: 03/22/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584789

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.090	109	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	67-140

Type: BSD Lab ID: QC584790

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.068	107	79-121	2	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	67-140

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)					
Lab #:	226688	Location:	64th & Christie Emeryville, CA		
Client:	PES Environmental, Inc.	Prep:	EPA 5030B		
Project#:	241.082.02.001	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000		
MSS Lab ID:	226779-001	Batch#:	173026		
Matrix:	Soil	Sampled:	03/22/11		
Units:	mg/Kg	Received:	03/22/11		
Basis:	as received	Analyzed:	03/22/11		

Type: MS Lab ID: QC584792

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.06573	10.87	8.713	80	41-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	67-140

Type: MSD Lab ID: QC584793

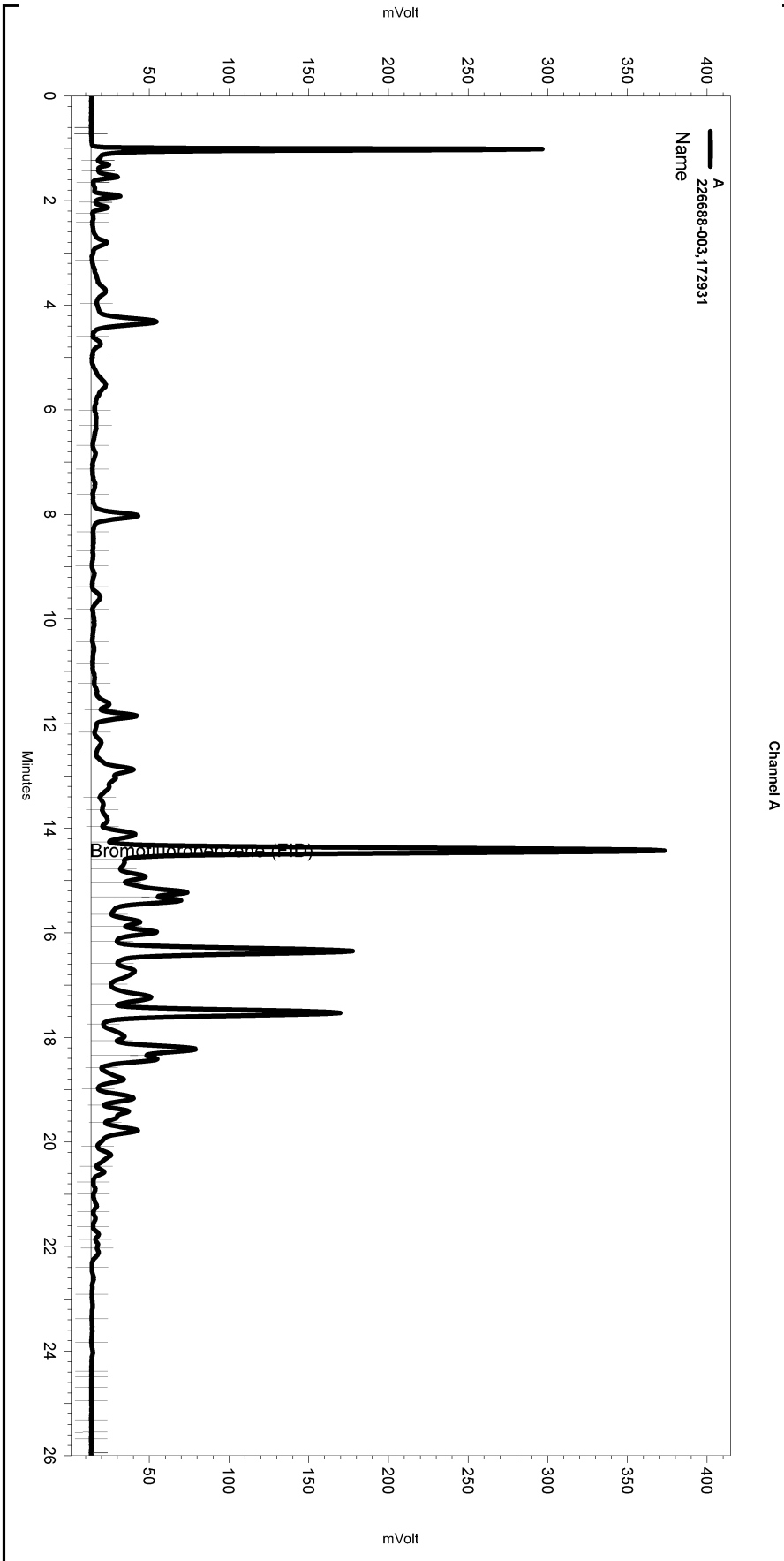
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.53	8.924	84	41-120	6	47

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\077.seq  
 Sample Name: 226688-003,172931  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\077-008  
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/18/2011 7:31:17 PM  
 Analysis Date: 3/21/2011 12:09:50 PM  
 Sample Amount: 5.42 Multiplier: 5.42  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

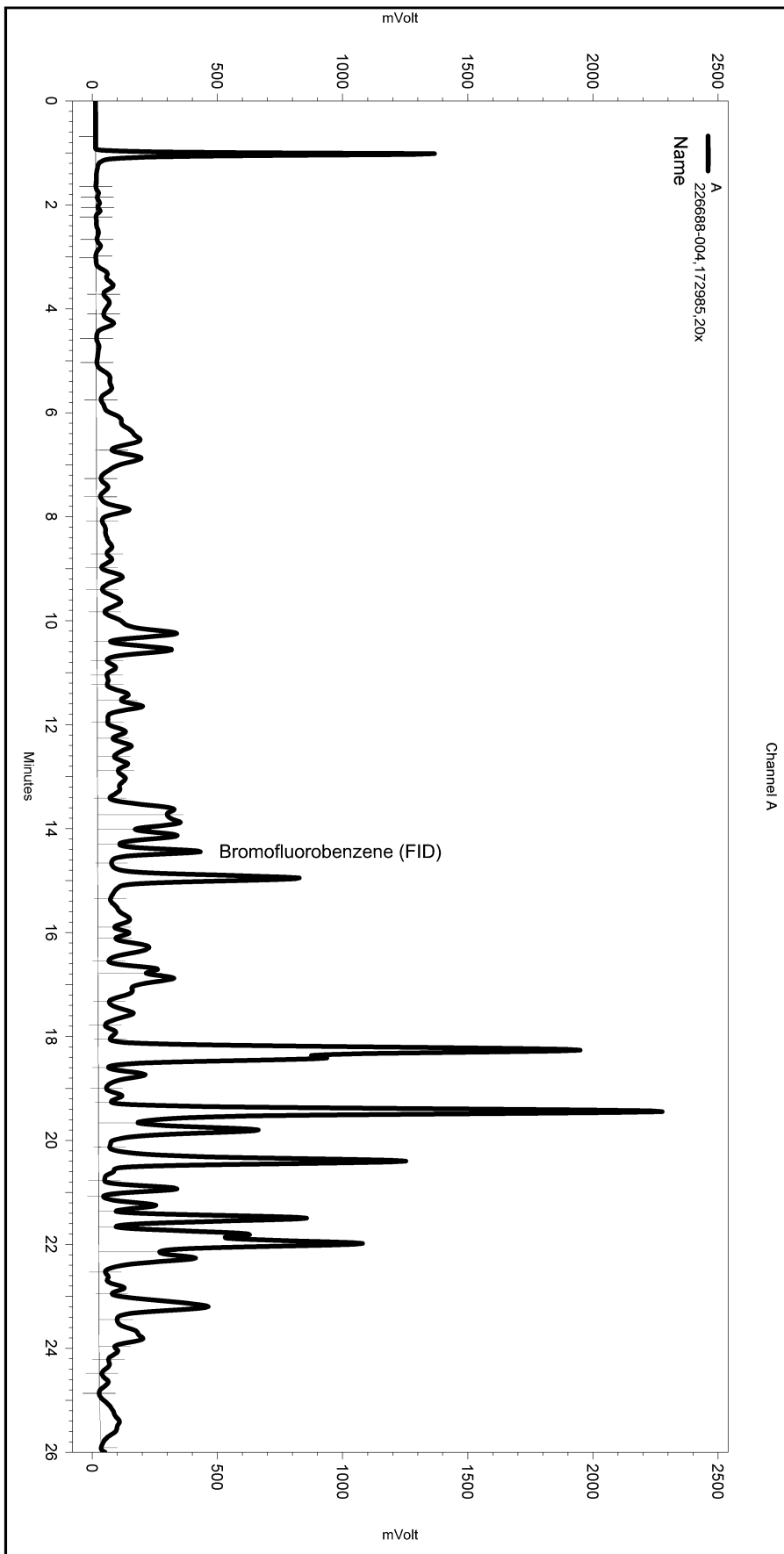
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\077-008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	14.597	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226688-004,172985,20x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-012  
 Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/21/2011 7:45:40 PM  
 Analysis Date: 3/21/2011 8:15:08 PM  
 Sample Amount: 5 Multiplier: 5  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

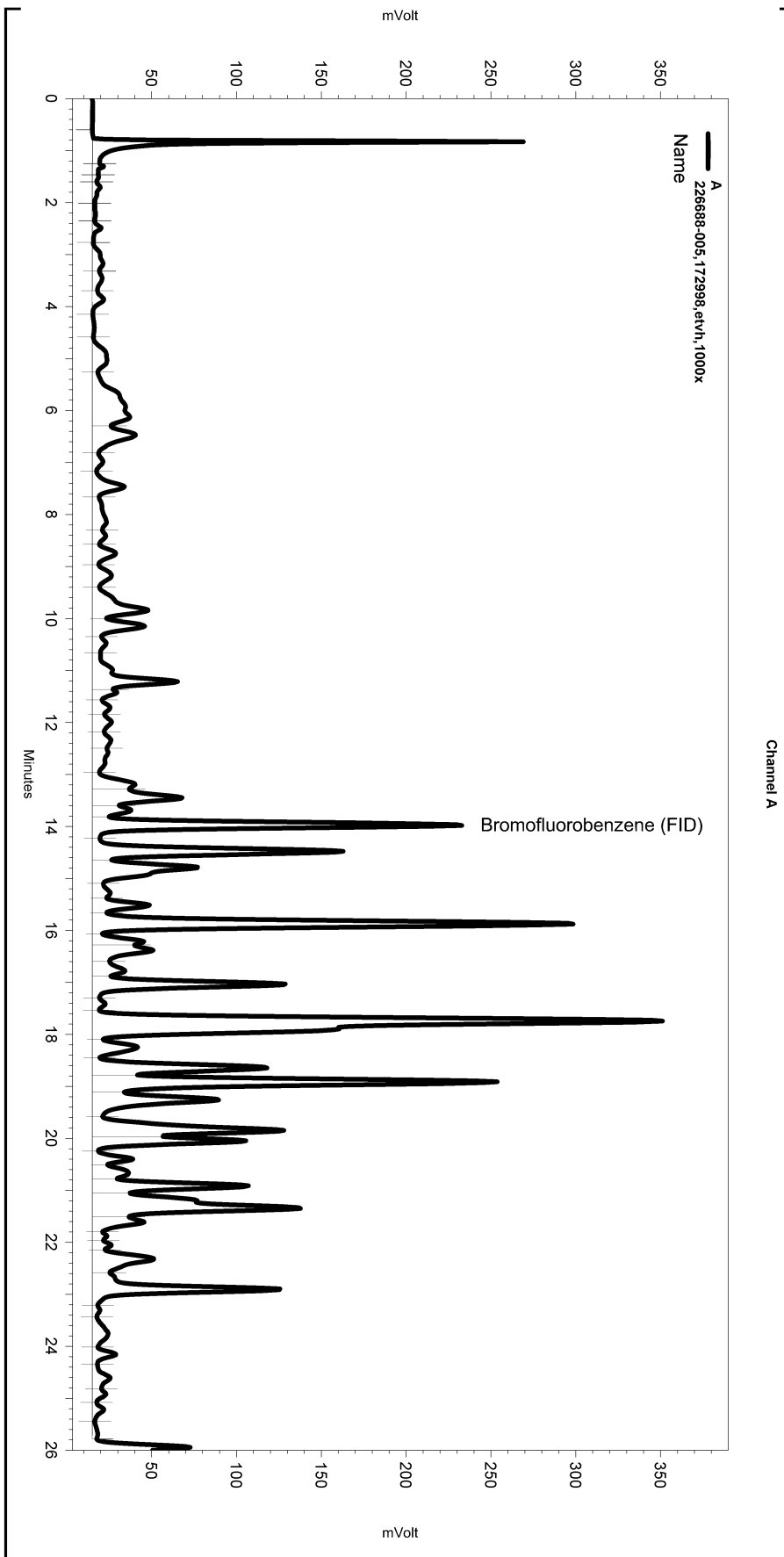
Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\080-012\_70C1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226688-005,172998,etvh,1000x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-030  
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\lvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 1:17:51 PM  
 Analysis Date: 3/23/2011 2:34:39 PM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: a,dc275



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Yes	Threshold	0	0	50

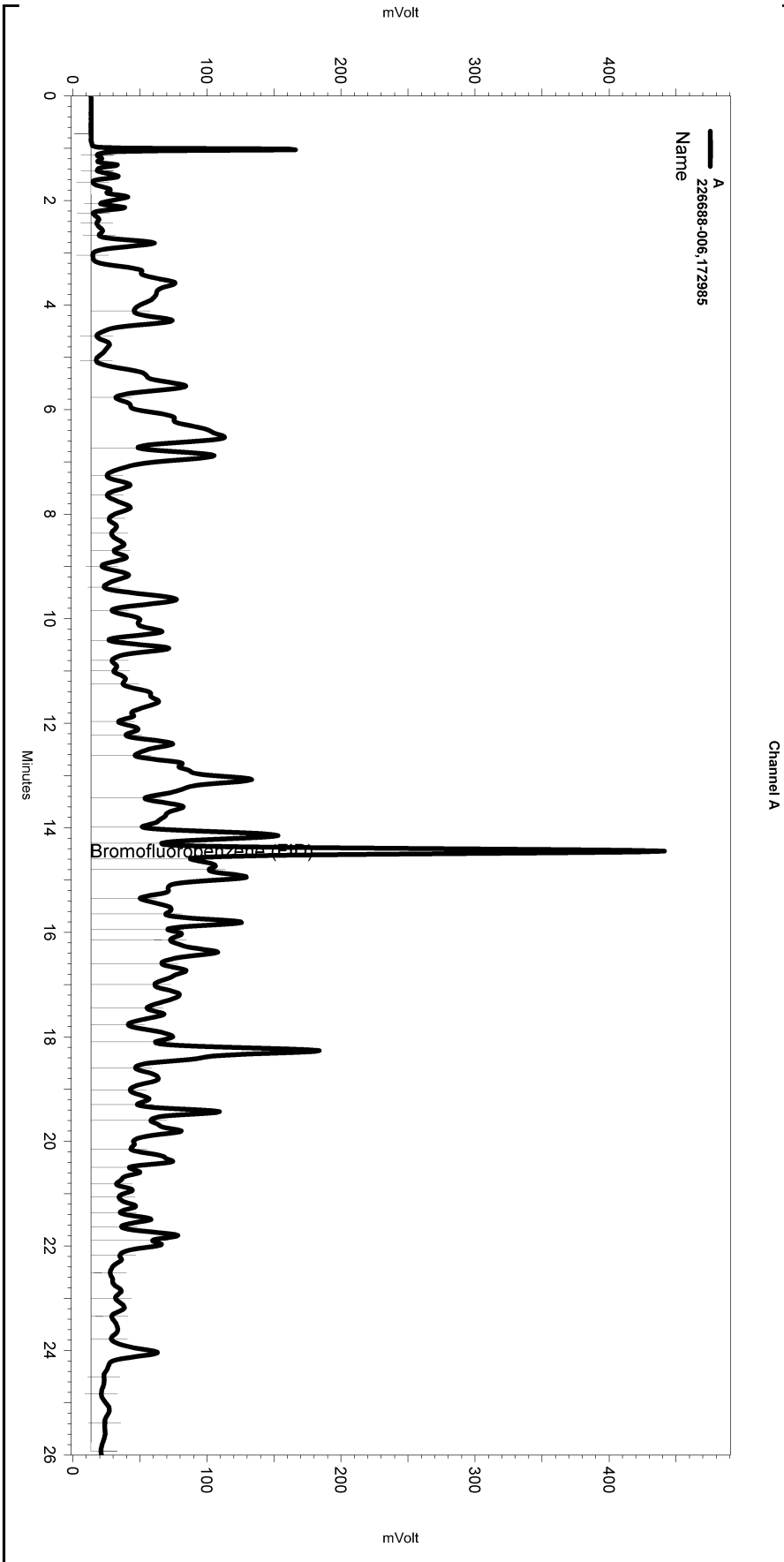
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-030

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	1.047	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226688-006,172985  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-014  
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\TVHBTXE061.met

Software Version 3.1.7  
 Run Date: 3/21/2011 9:01:36 PM  
 Analysis Date: 3/22/2011 5:35:21 PM  
 Sample Amount: 4.02 Multiplier: 4.02  
 Vial & pH or Core ID: e



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

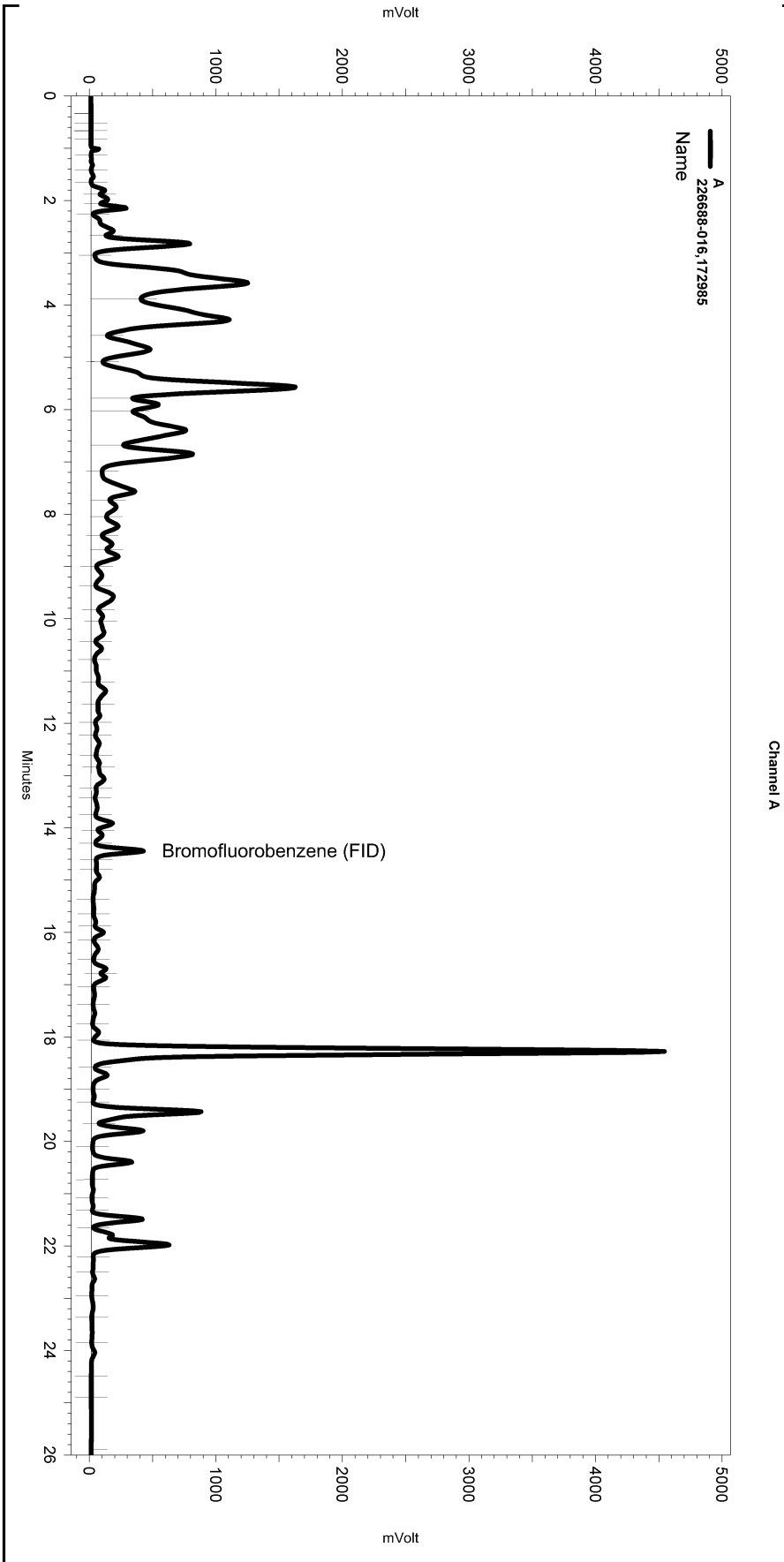
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.648	25.952	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226688-016,172985  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-018  
 Instrument: GC04 (Offline) Vial: N/A Operator: TVH 4. Analyst (lims2k3\tvh4)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/21/2011 11:32:53 PM  
 Analysis Date: 3/22/2011 10:49:57 AM  
 Sample Amount: 6.63 Multiplier: 6.63  
 Vial & pH or Core ID: d



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

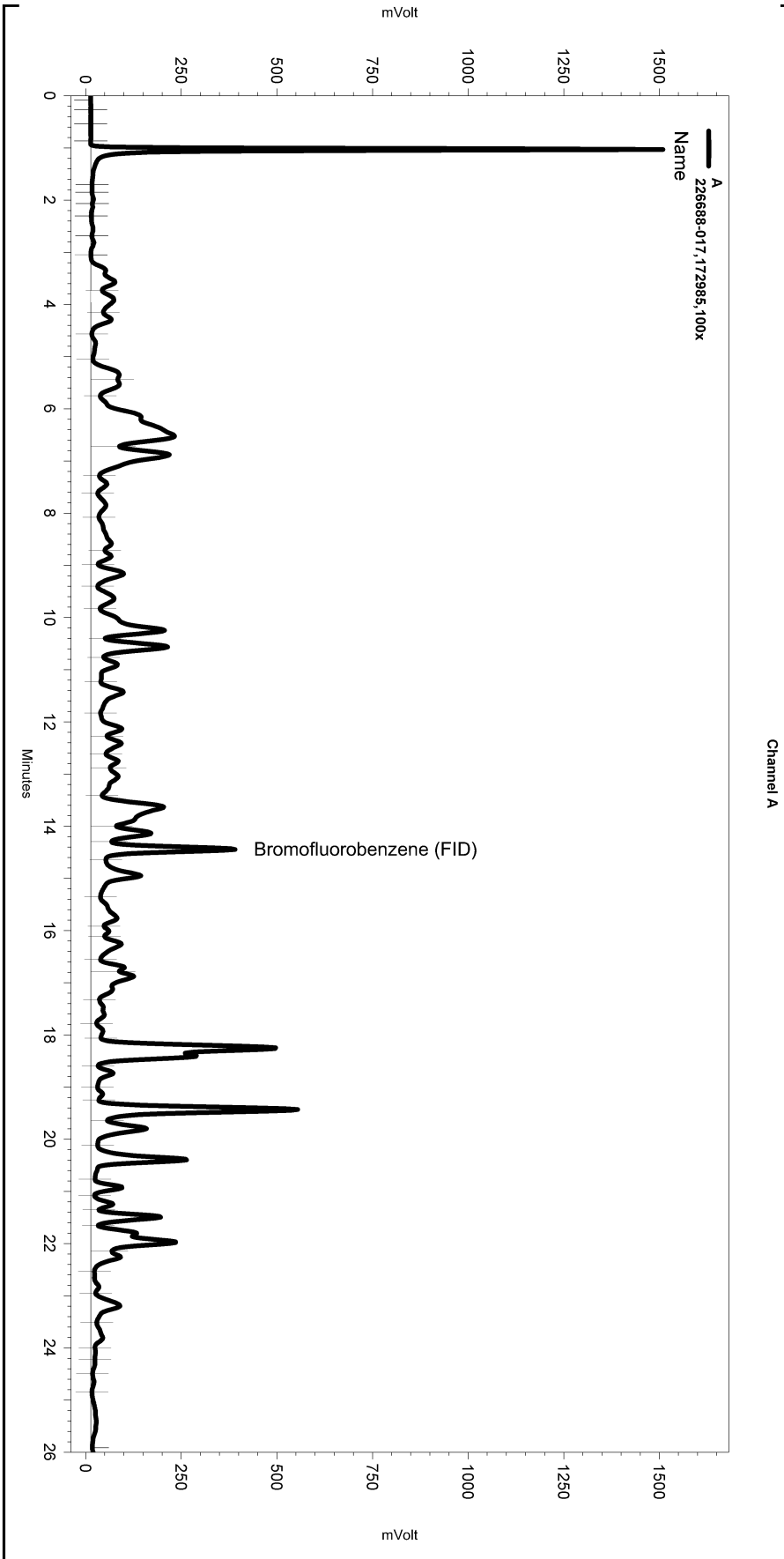
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-018

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226688-017,172985,100x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-019  
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/22/2011 12:11:09 AM  
 Analysis Date: 3/22/2011 5:37:05 PM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

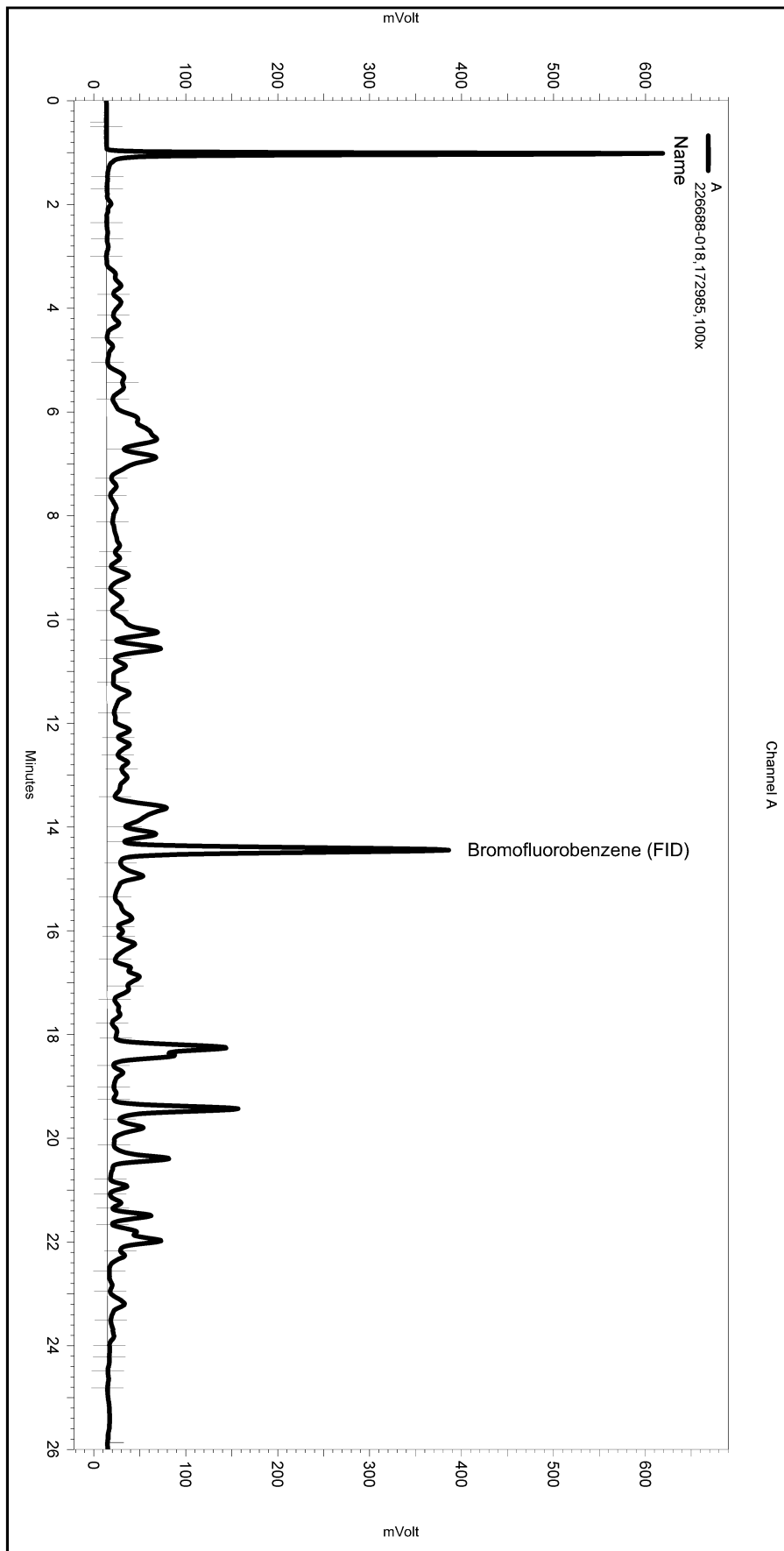
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-019

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.096	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226688-018,172985,100x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-020  
 Instrument: GC04 Vial: N/A Operator: lims2k3\lvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/22/2011 12:48:49 AM  
 Analysis Date: 3/22/2011 1:18:17 AM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

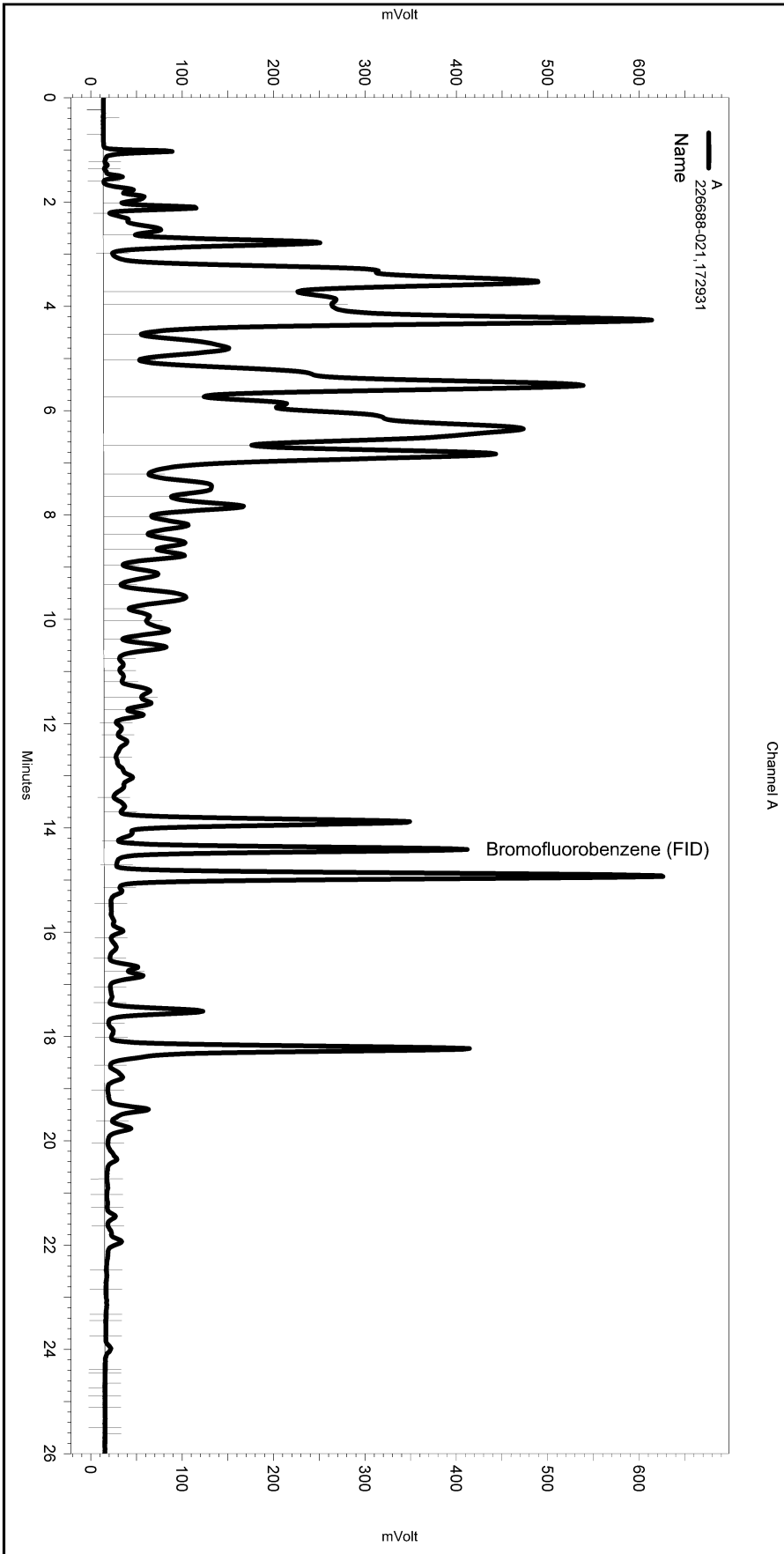
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\080-020\_70C9.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\077.seq  
 Sample Name: 226688-021,172931  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\077-026  
 Instrument: GC04 Vial: N/A Operator: lims2k3\lvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/19/2011 6:57:25 AM  
 Analysis Date: 3/19/2011 7:26:53 AM  
 Sample Amount: 5.25 Multiplier: 5.25  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

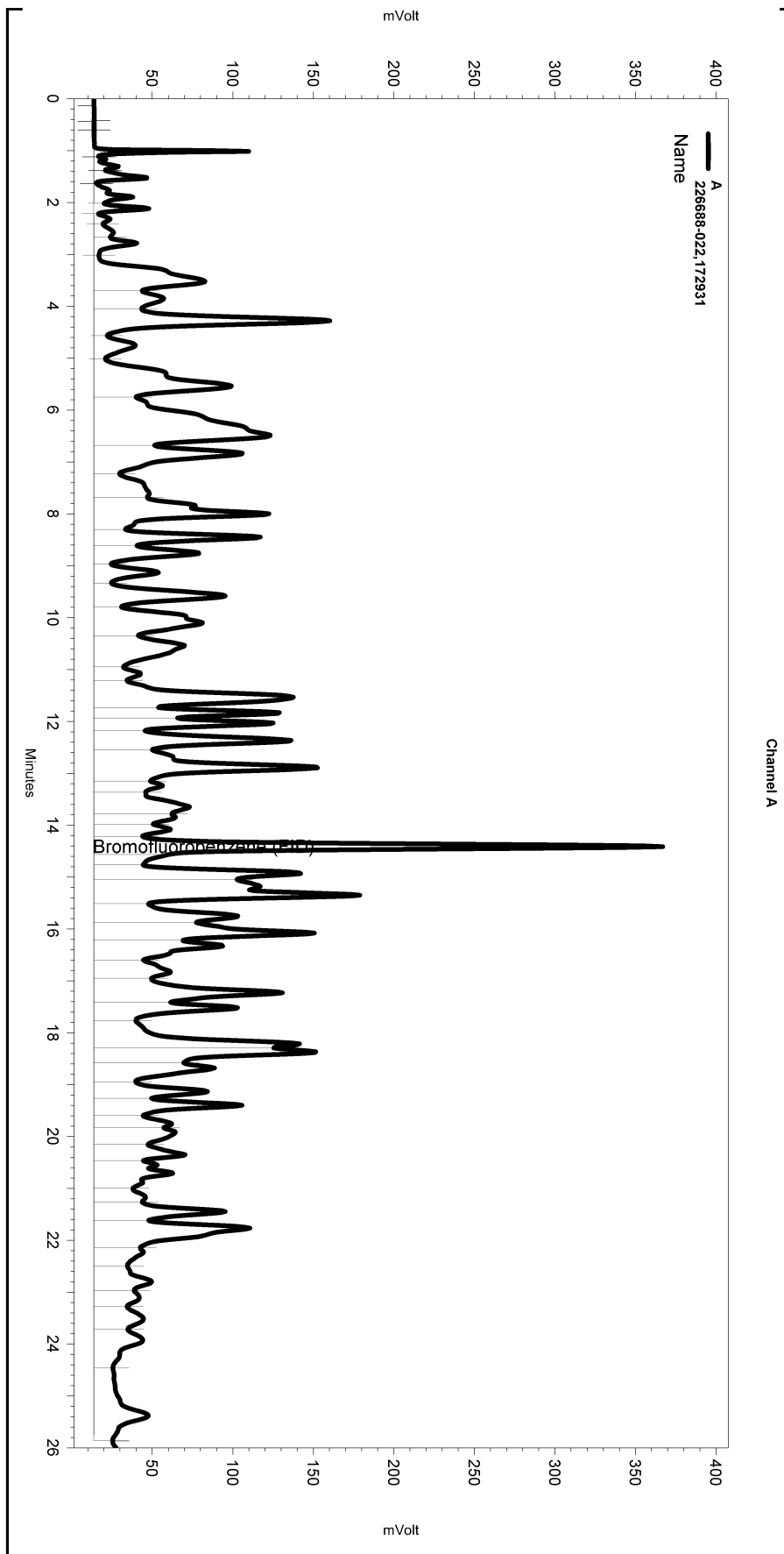
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\077-026\_82E2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\077.seq  
 Sample Name: 226688-022,172931  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\077-027  
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\TVHBTXE061.met

Software Version 3.1.7  
 Run Date: 3/19/2011 7:34:58 AM  
 Analysis Date: 3/21/2011 12:17:11 PM  
 Sample Amount: 5.34 Multiplier: 5.34  
 Vial & pH or Core ID: b



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 Integration Events  
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Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

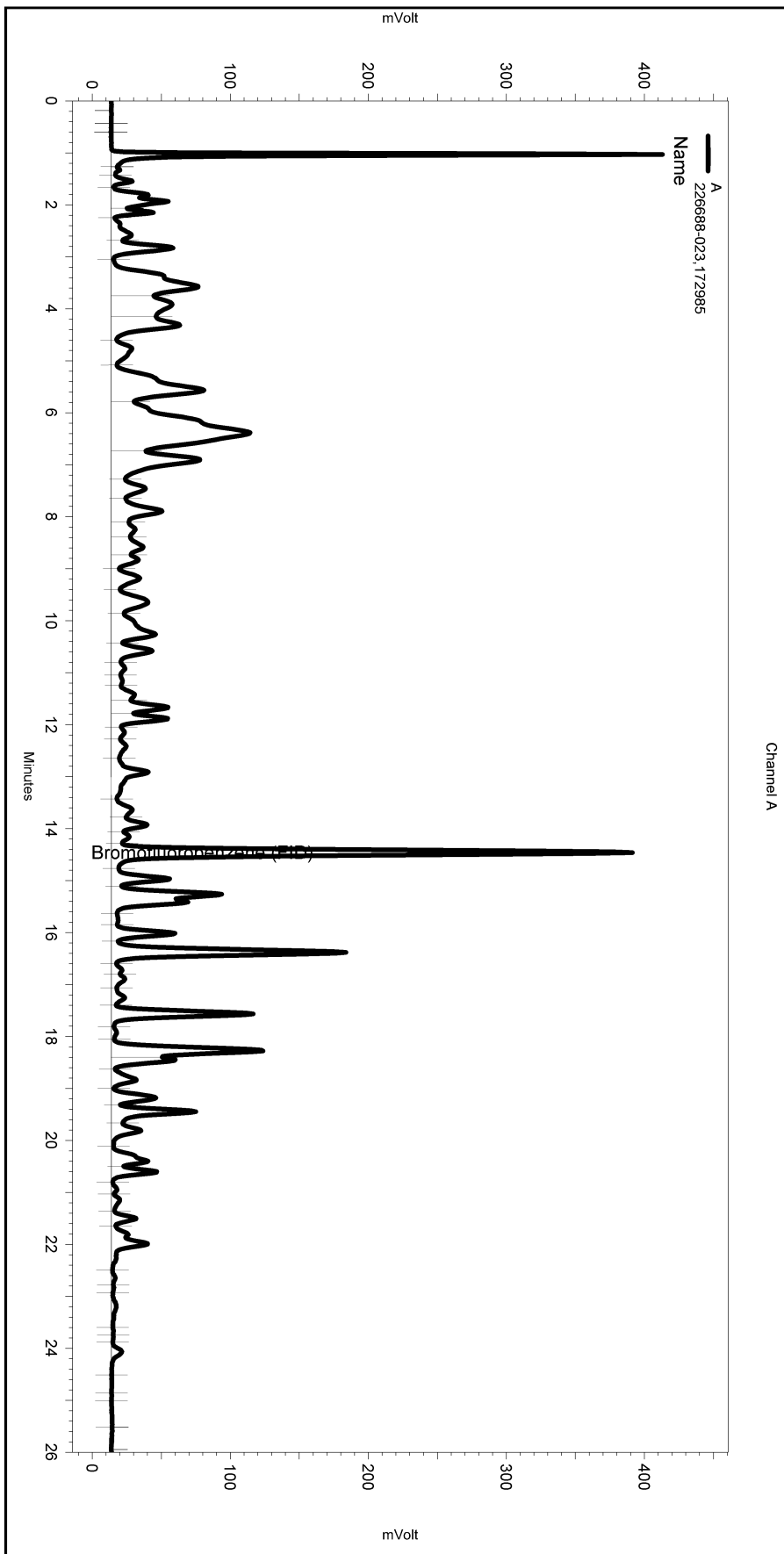
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 Manual Integration Fixes  
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Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\077-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0.315	26.017	0
Yes	Split Peak	14.564	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226688-023,172985  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-006  
 Instrument: GC04 Vial: N/A Operator: lims2k3\lvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/21/2011 3:56:15 PM  
 Analysis Date: 3/21/2011 4:25:44 PM  
 Sample Amount: 5.28 Multiplier: 5.28  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

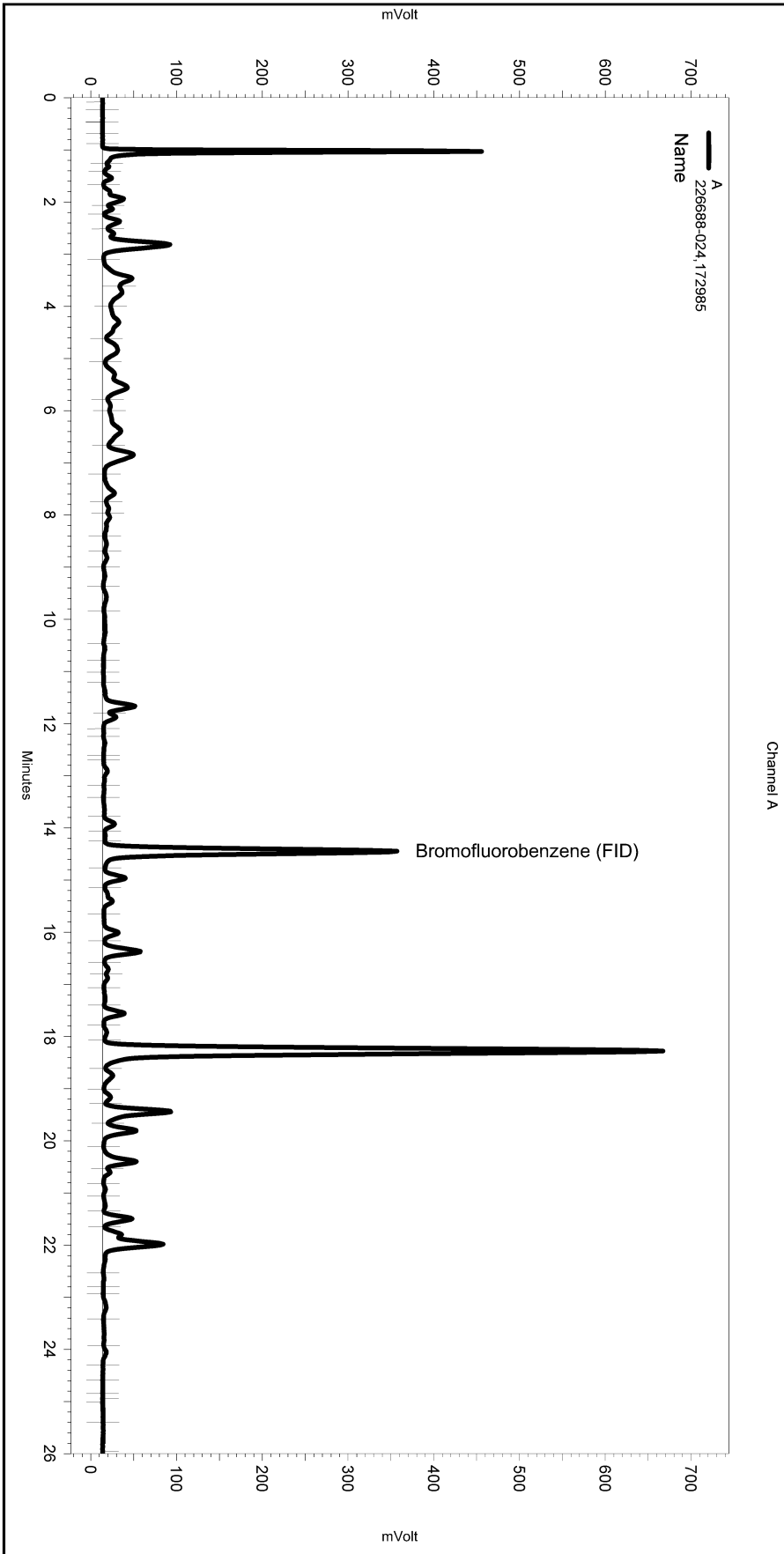
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10047\080-006\_70BB.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226688-024,172985  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-007  
 Instrument: GC04 Vial: N/A Operator: lims2k3\lvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/21/2011 4:35:36 PM  
 Analysis Date: 3/21/2011 5:05:07 PM  
 Sample Amount: 6.31 Multiplier: 6.31  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

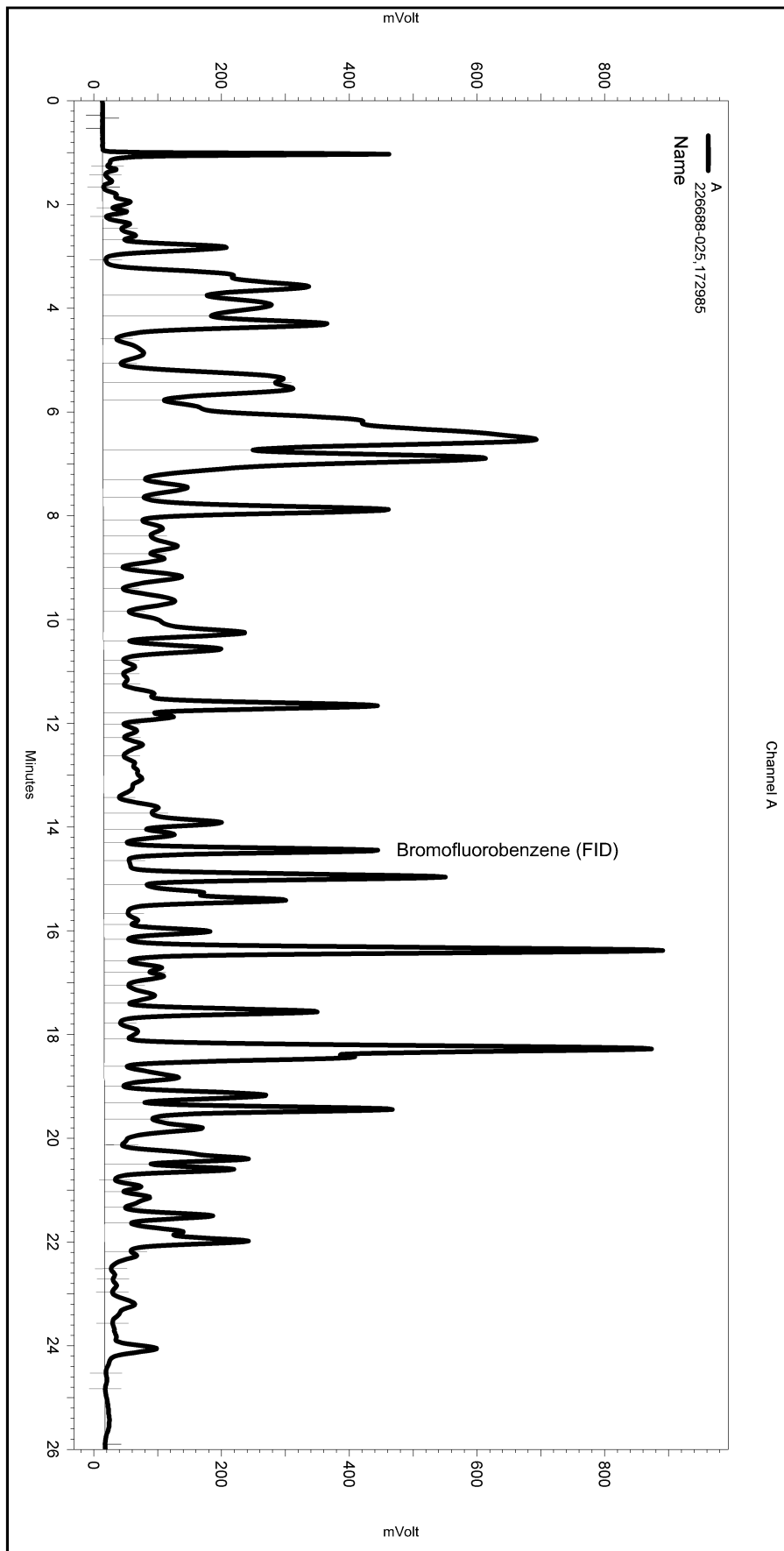
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\080-007\_70BC.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226688-025,172985  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-008  
 Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\TVHBTXE061.met

Software Version 3.1.7  
 Run Date: 3/21/2011 5:13:36 PM  
 Analysis Date: 3/21/2011 5:43:03 PM  
 Sample Amount: 6.59 Multiplier: 6.59  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

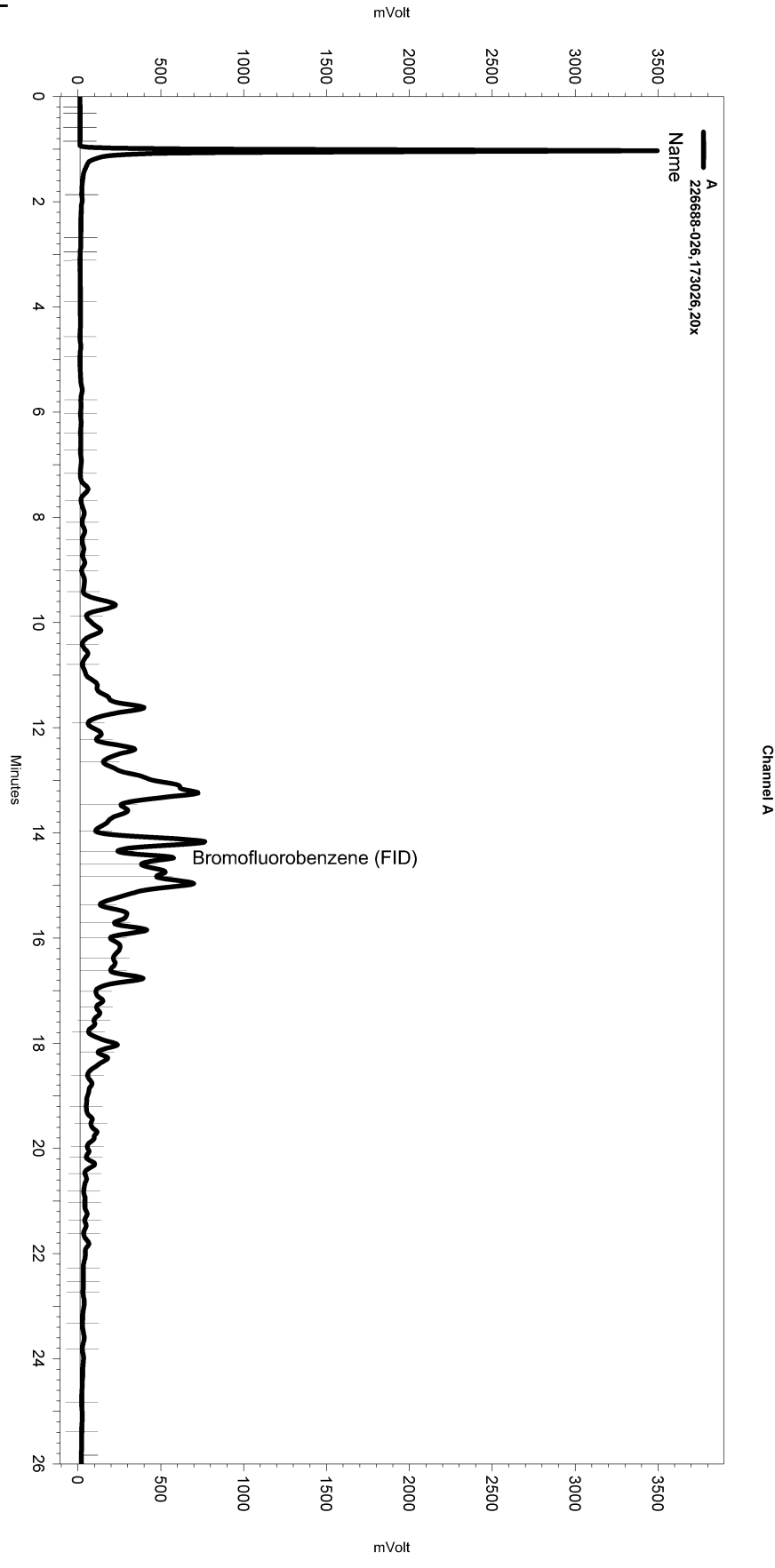
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\080-008\_70BD.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq  
 Sample Name: 226688-026,173026,20x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081-006  
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\TVHBTX061.met

Software Version 3.1.7  
 Run Date: 3/22/2011 5:28:00 PM  
 Analysis Date: 3/23/2011 2:54:09 PM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

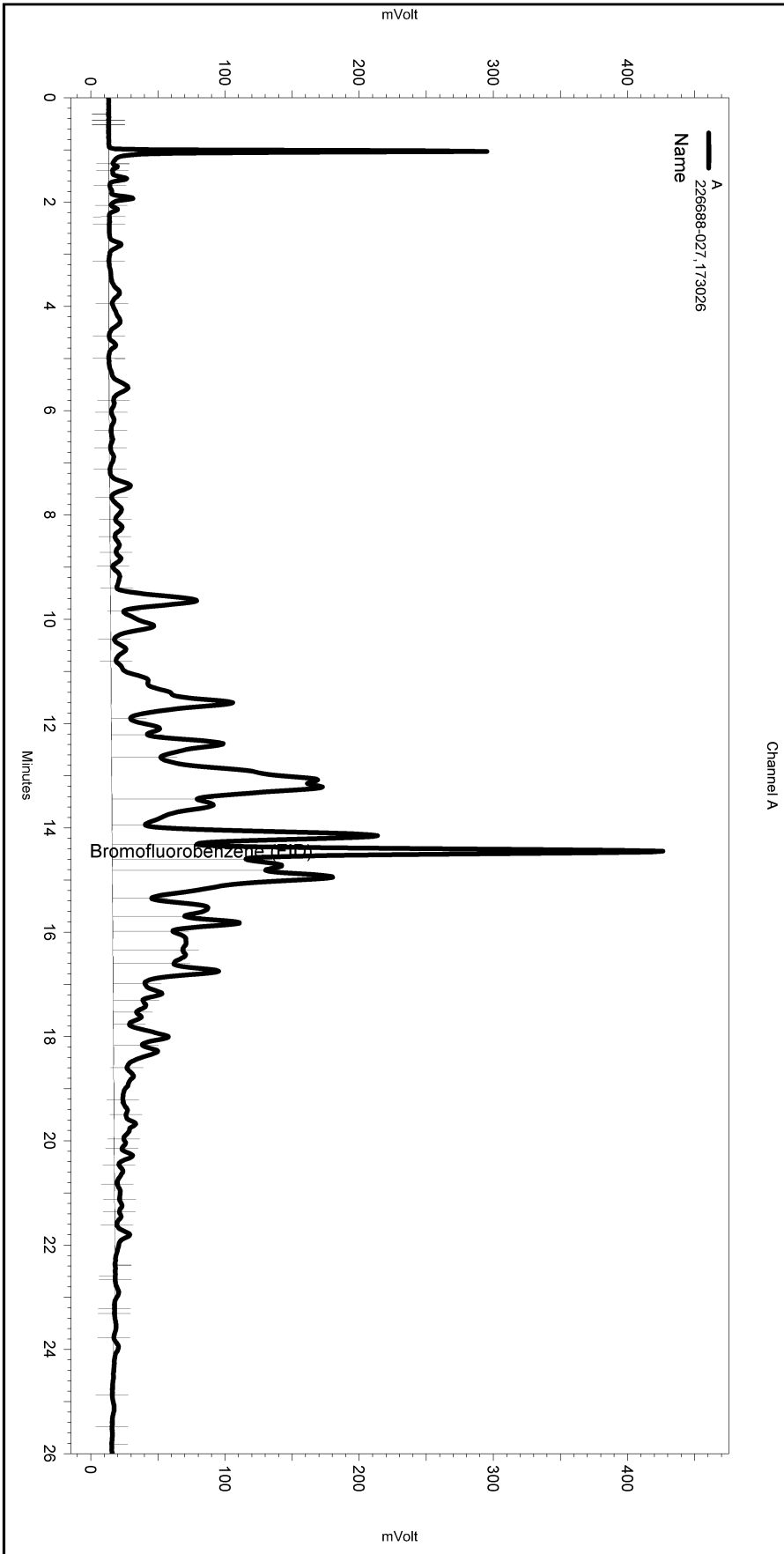
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081-006

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.583	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq  
 Sample Name: 226688-027,173026  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081-008  
 Instrument: GC04 Vial: N/A Operator: lims2k3\lvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/22/2011 6:43:41 PM  
 Analysis Date: 3/22/2011 7:13:09 PM  
 Sample Amount: 5.73 Multiplier: 5.73  
 Vial & pH or Core ID: c



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

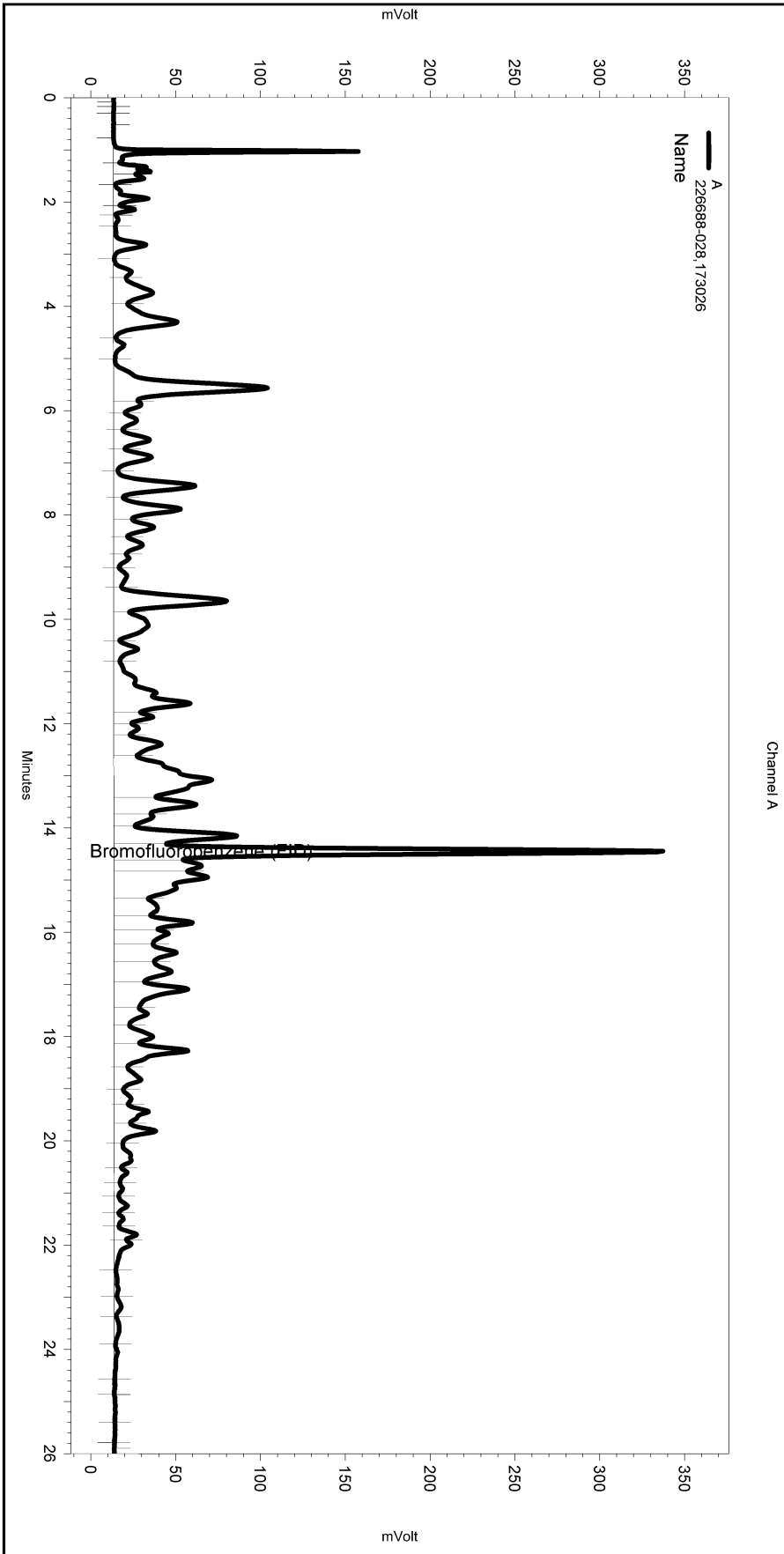
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
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 Data\Instrument.10047\081-008\_70E2.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq  
 Sample Name: 226688-028,173026  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081-007  
 Instrument: GC04 Vial: N/A Operator: lims2k3\lvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\lvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/22/2011 6:06:04 PM  
 Analysis Date: 3/22/2011 6:35:32 PM  
 Sample Amount: 5.65 Multiplier: 5.65  
 Vial & pH or Core ID: e



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

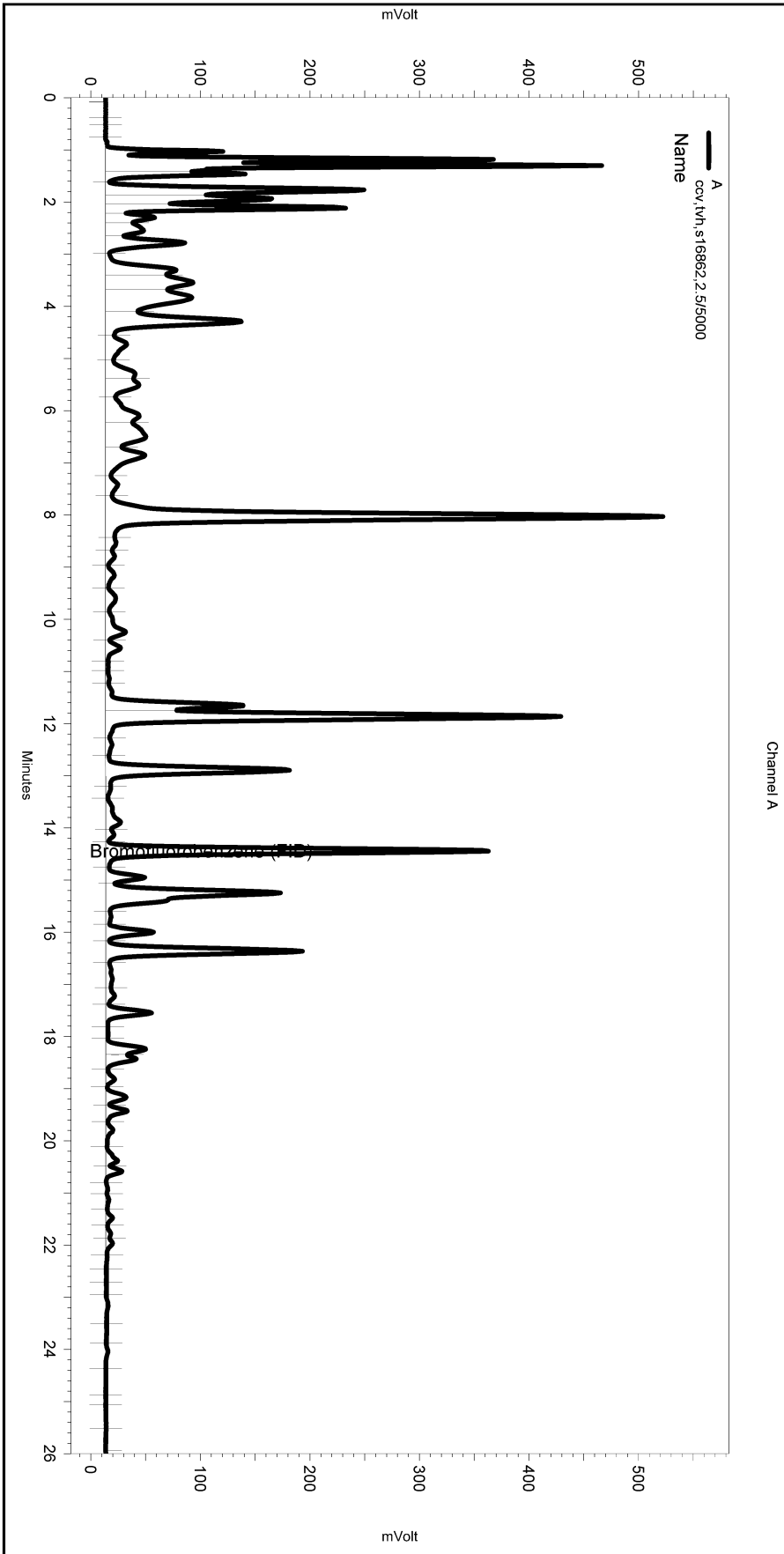
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\081-007\_70E1.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\077.seq  
 Sample Name: ccv,tvh,s16862,2.5/5000  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\077-002  
 Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbx061.met

Software Version 3.1.7  
 Run Date: 3/18/2011 3:08:50 PM  
 Analysis Date: 3/18/2011 3:38:19 PM  
 Sample Amount: 5 Multiplier: 5  
 Vial & pH or Core ID: {Data Description}



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\077-002\_82CA.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID:	SB-25-2.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226688-001	Prep:	EPA 3550B
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	173041		

Analyte	Result	RL
Diesel C10-C24	120 Y	5.0
Motor Oil C24-C36	430	25

Surrogate	%REC	Limits
o-Terphenyl	92	52-130

Field ID:	SB-25-7.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-002	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	110 Y	5.0
Motor Oil C24-C36	500	25

Surrogate	%REC	Limits
o-Terphenyl	68	52-130

Field ID:	SB-25-12.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-003	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	340 Y	9.9
Motor Oil C24-C36	1,000	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID:	SB-29-2.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226688-004	Prep:	EPA 3550B
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	173041		

Analyte	Result	RL
Diesel C10-C24	920 Y	9.9
Motor Oil C24-C36	910	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-29-7.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-005	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	580 Y	5.0
Motor Oil C24-C36	550	25

Surrogate	%REC	Limits
o-Terphenyl	86	52-130

Field ID:	SB-29-12.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-006	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	260 Y	5.0
Motor Oil C24-C36	400	25

Surrogate	%REC	Limits
o-Terphenyl	87	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit



Total Extractable Hydrocarbons			
Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis:	EPA 8015B
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11
Basis:	as received		

Field ID:	SB-29-16.0	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-007	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	5.7 Y	1.0
Motor Oil C24-C36	9.0	5.0

Surrogate	%REC	Limits
o-Terphenyl	68	52-130

Field ID:	SB-16-2.5	Prepared:	03/20/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-009	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172955		

Analyte	Result	RL
Diesel C10-C24	110 Y	5.0
Motor Oil C24-C36	390	25

Surrogate	%REC	Limits
o-Terphenyl	58	52-130

Field ID:	SB-16-7.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-010	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	6.1 Y	0.99
Motor Oil C24-C36	22	5.0

Surrogate	%REC	Limits
o-Terphenyl	69	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis:	EPA 8015B
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11
Basis:	as received		

Field ID:	SB-16-12.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-011	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	3.4 Y	1.0
Motor Oil C24-C36	7.4	5.0

Surrogate	%REC	Limits
o-Terphenyl	69	52-130

Field ID:	SB-17-2.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226688-012	Prep:	EPA 3550B
Diln Fac:	3.000	Cleanup Method:	EPA 3630C
Batch#:	173041		

Analyte	Result	RL
Diesel C10-C24	82 Y	3.0
Motor Oil C24-C36	230	15

Surrogate	%REC	Limits
o-Terphenyl	119	52-130

Field ID:	SB-17-6.0	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-013	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	6.8 Y	1.0
Motor Oil C24-C36	17	5.0

Surrogate	%REC	Limits
o-Terphenyl	80	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226688	Location: 64th & Christie Emeryville, CA	
Client:	PES Environmental, Inc.	Analysis: EPA 8015B	
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11
Basis:	as received		

Field ID:	SB-17-12.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-014	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	15 Y	0.99
Motor Oil C24-C36	58	5.0

Surrogate	%REC	Limits
o-Terphenyl	64	52-130

Field ID:	SB-31-2.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-015	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	69 Y	9.9
Motor Oil C24-C36	330	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-31-7.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-016	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	170 Y	5.0
Motor Oil C24-C36	430	25

Surrogate	%REC	Limits
o-Terphenyl	57	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID:	SB-31-12.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-017	Prep:	SHAKER TABLE
Diln Fac:	2.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	640 Y	2.0
Motor Oil C24-C36	1,000	10

Surrogate	%REC	Limits
o-Terphenyl	61	52-130

Field ID:	SB-31-16.0	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-018	Prep:	SHAKER TABLE
Diln Fac:	2.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	360 Y	2.0
Motor Oil C24-C36	690	10

Surrogate	%REC	Limits
o-Terphenyl	57	52-130

Field ID:	SB-32-2.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-020	Prep:	SHAKER TABLE
Diln Fac:	20.00	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	80 Y	20
Motor Oil C24-C36	670	100

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID:	SB-32-7.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-021	Prep:	SHAKER TABLE
Diln Fac:	2.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	93 Y	2.0
Motor Oil C24-C36	220	9.9

Surrogate	%REC	Limits
o-Terphenyl	103	52-130

Field ID:	SB-32-11.0	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-022	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	3,100 Y	10
Motor Oil C24-C36	3,300	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-27-2.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-023	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	16 Y	0.99
Motor Oil C24-C36	94	5.0

Surrogate	%REC	Limits
o-Terphenyl	81	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226688	Location: 64th & Christie Emeryville, CA	
Client:	PES Environmental, Inc.	Analysis: EPA 8015B	
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11
Basis:	as received		

Field ID:	SB-27-7.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-024	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	430 Y	0.99
Motor Oil C24-C36	290	5.0

Surrogate	%REC	Limits
o-Terphenyl	56	52-130

Field ID:	SB-27-12.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226688-025	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	30 Y	0.99
Motor Oil C24-C36	79	5.0

Surrogate	%REC	Limits
o-Terphenyl	57	52-130

Field ID:	SB-24-1.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-026	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	740 Y	10
Motor Oil C24-C36	850	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Field ID:	SB-24-5.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-027	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	74 Y	9.9
Motor Oil C24-C36	510	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-24-12.0	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226688-028	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	260 Y	10
Motor Oil C24-C36	990	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Type:	BLANK	Prepared:	03/20/11
Lab ID:	QC584510	Analyzed:	03/21/11
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	172955	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	74	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/16/11
Units:	mg/Kg	Received: 03/16/11
Basis:	as received	

Type:	BLANK	Prepared:	03/21/11
Lab ID:	QC584569	Analyzed:	03/21/11
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	172970	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	65	52-130

Type:	BLANK	Prepared:	03/22/11
Lab ID:	QC584843	Analyzed:	03/23/11
Diln Fac:	1.000	Prep:	EPA 3550B
Batch#:	173041	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	92	52-130

Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit



## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584511	Batch#: 172955
Matrix:	Soil	Prepared: 03/20/11
Units:	mg/Kg	Analyzed: 03/21/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.82	40.21	81	44-151

Surrogate	%REC	Limits
o-Terphenyl	82	52-130

## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584570	Batch#: 172970
Matrix:	Soil	Prepared: 03/21/11
Units:	mg/Kg	Analyzed: 03/22/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.94	35.13	70	44-151

Surrogate	%REC	Limits
o-Terphenyl	91	52-130

Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Field ID:	SB-20-1.5	Batch#: 172970
MSS Lab ID:	226712-001	Sampled: 03/17/11
Matrix:	Soil	Received: 03/17/11
Units:	mg/Kg	Prepared: 03/21/11
Basis:	as received	Analyzed: 03/21/11
Diln Fac:	5.000	

Type: MS Cleanup Method: EPA 3630C  
 Lab ID: QC584571

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	172.7	49.52	106.4	-134 *	39-146

Surrogate	%REC	Limits
o-Terphenyl	33 *	52-130

Type: MSD Cleanup Method: EPA 3630C  
 Lab ID: QC584572

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.00	131.6	-82 *	39-146	21	61

Surrogate	%REC	Limits
o-Terphenyl	34 *	52-130

\*= Value outside of QC limits; see narrative  
 RPD= Relative Percent Difference

## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584844	Batch#: 173041
Matrix:	Soil	Prepared: 03/22/11
Units:	mg/Kg	Analyzed: 03/23/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.39	53.54	106	44-151

Surrogate	%REC	Limits
o-Terphenyl	113	52-130

Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#: 173041
MSS Lab ID:	226779-001	Sampled: 03/22/11
Matrix:	Soil	Received: 03/22/11
Units:	mg/Kg	Prepared: 03/22/11
Basis:	as received	Analyzed: 03/23/11
Diln Fac:	1.000	

Type: MS Cleanup Method: EPA 3630C  
 Lab ID: QC584845

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<0.2626	50.16	47.23	94	39-146

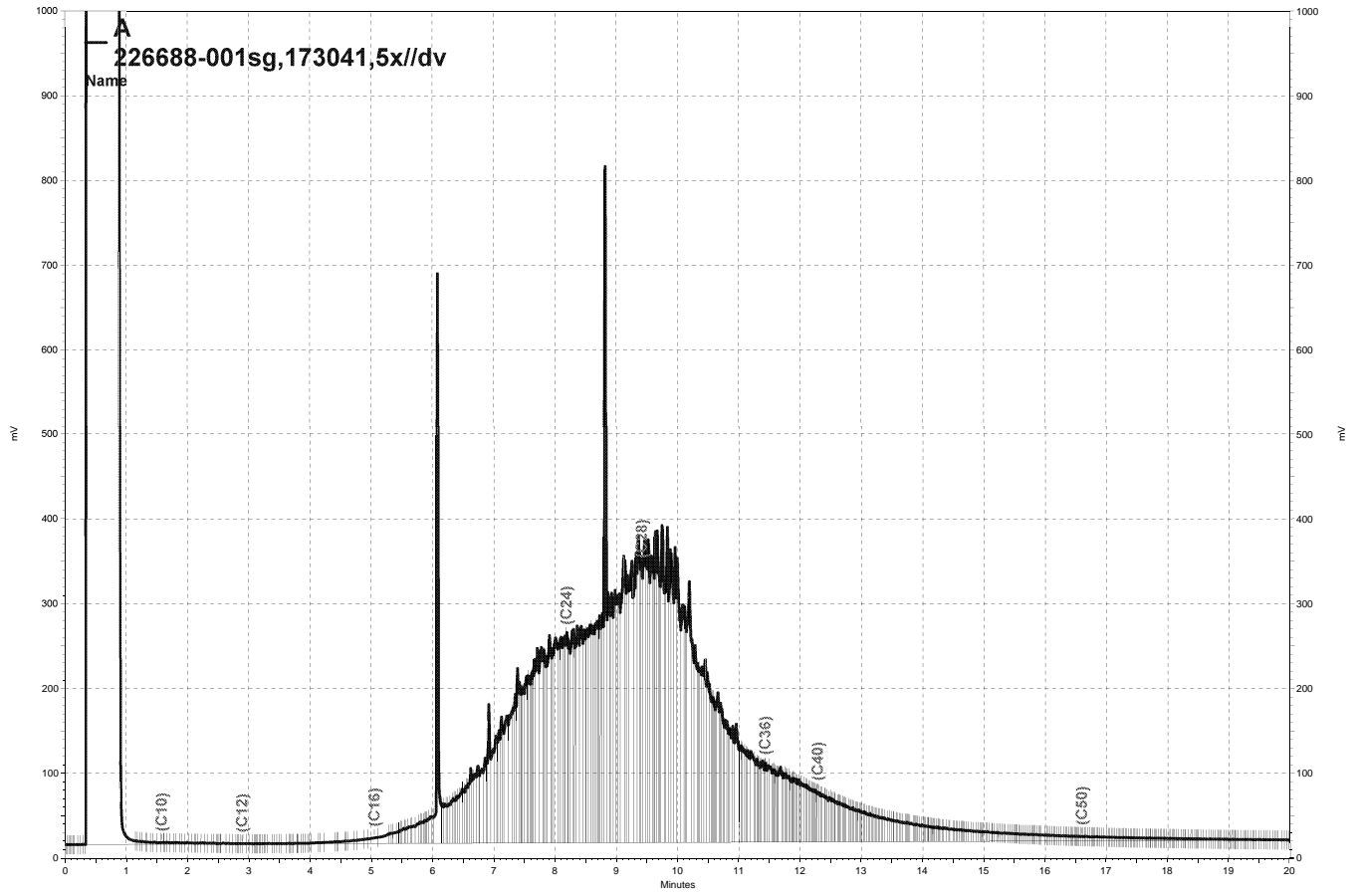
Surrogate	%REC	Limits
o-Terphenyl	97	52-130

Type: MSD Cleanup Method: EPA 3630C  
 Lab ID: QC584846

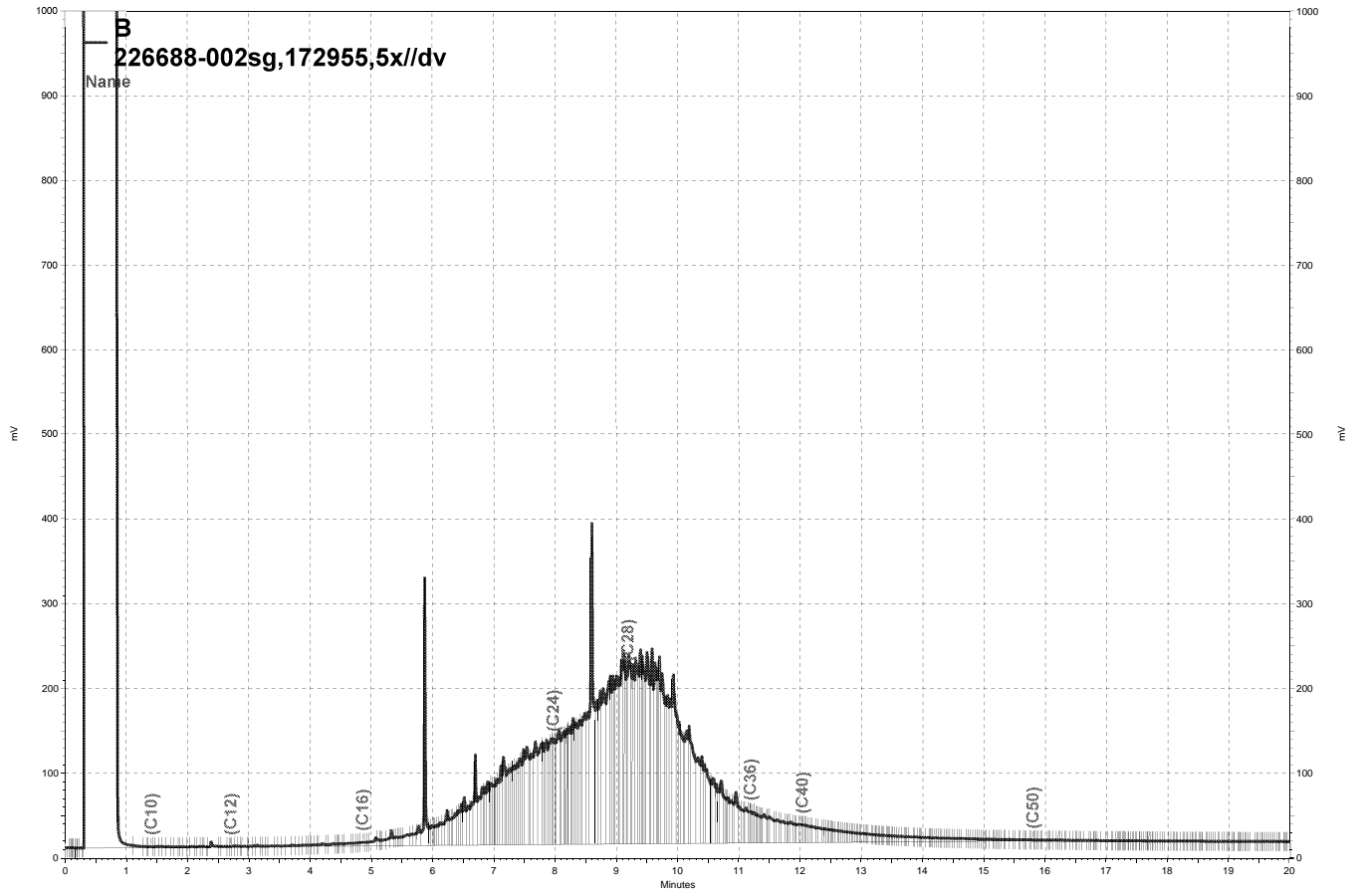
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.12	61.70	123	39-146	27	61

Surrogate	%REC	Limits
o-Terphenyl	130	52-130

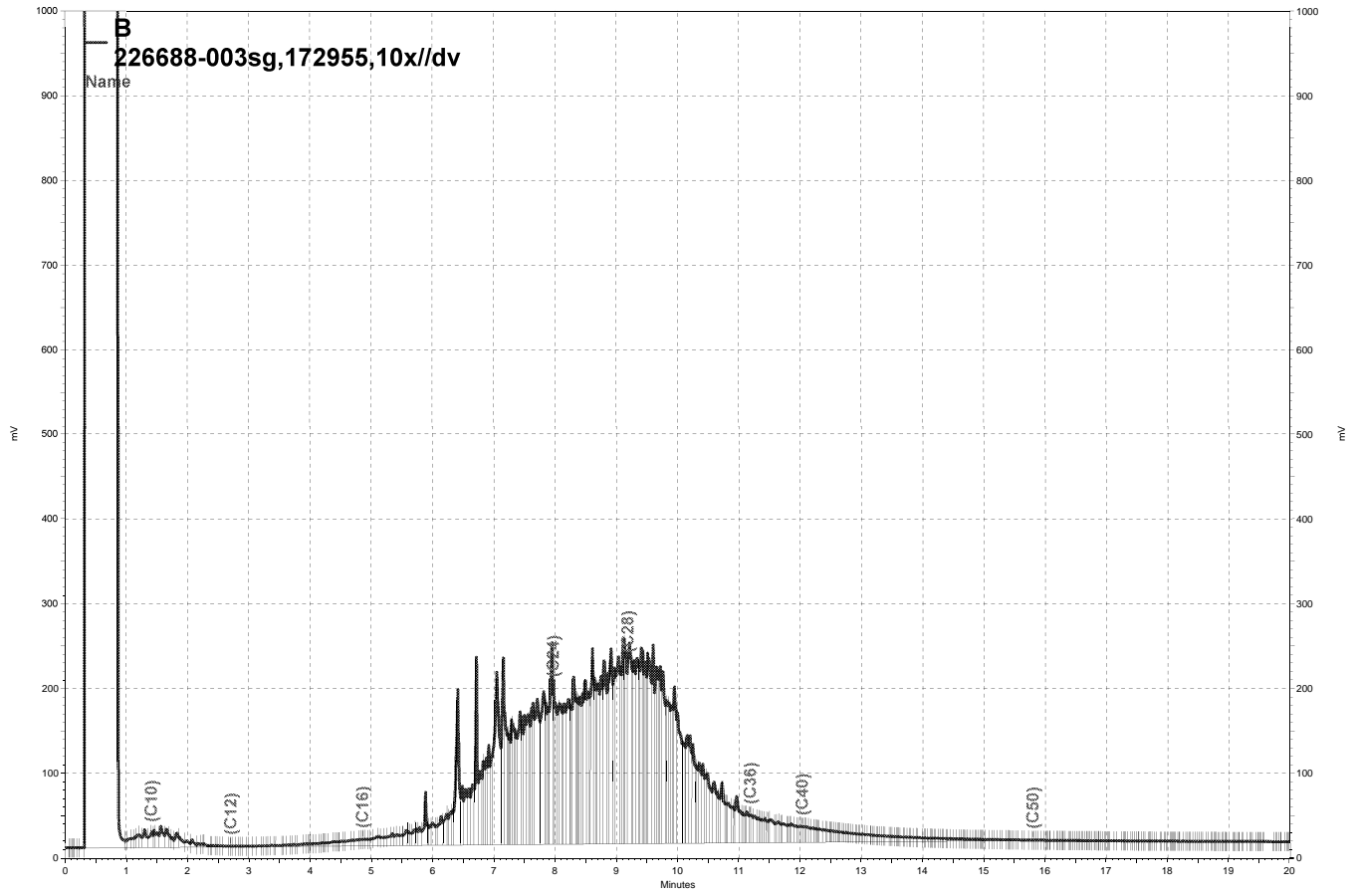
RPD= Relative Percent Difference



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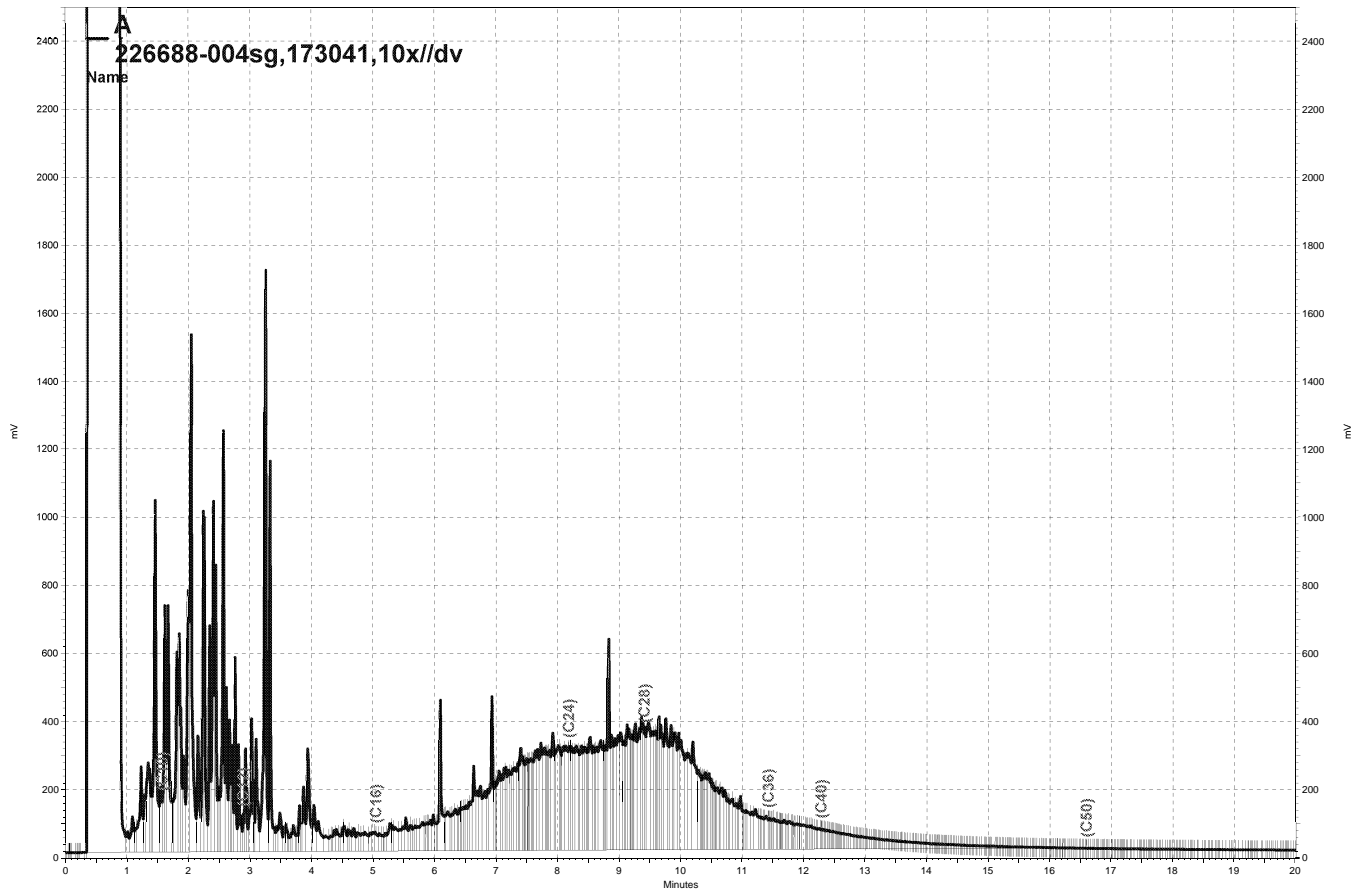


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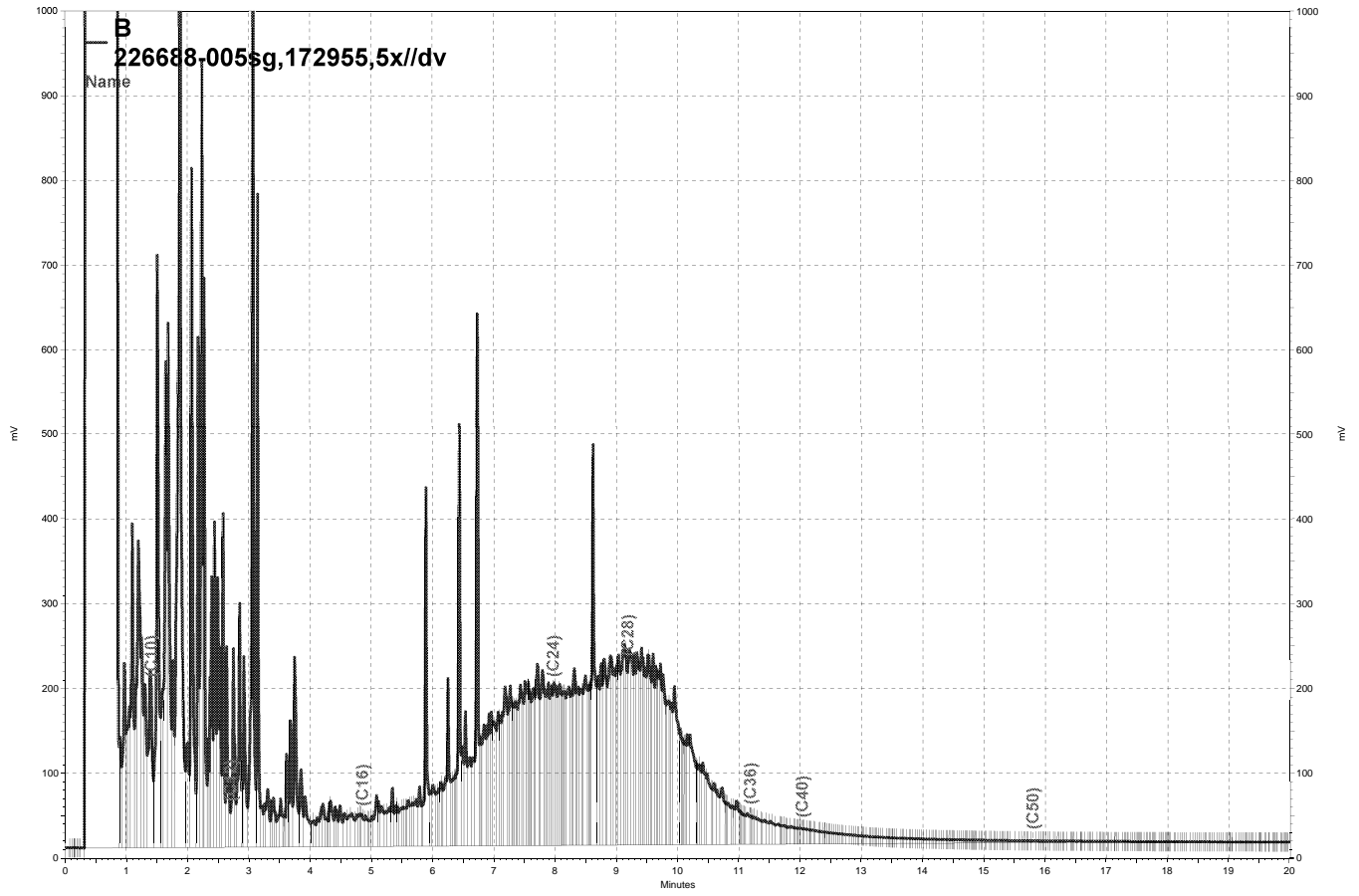


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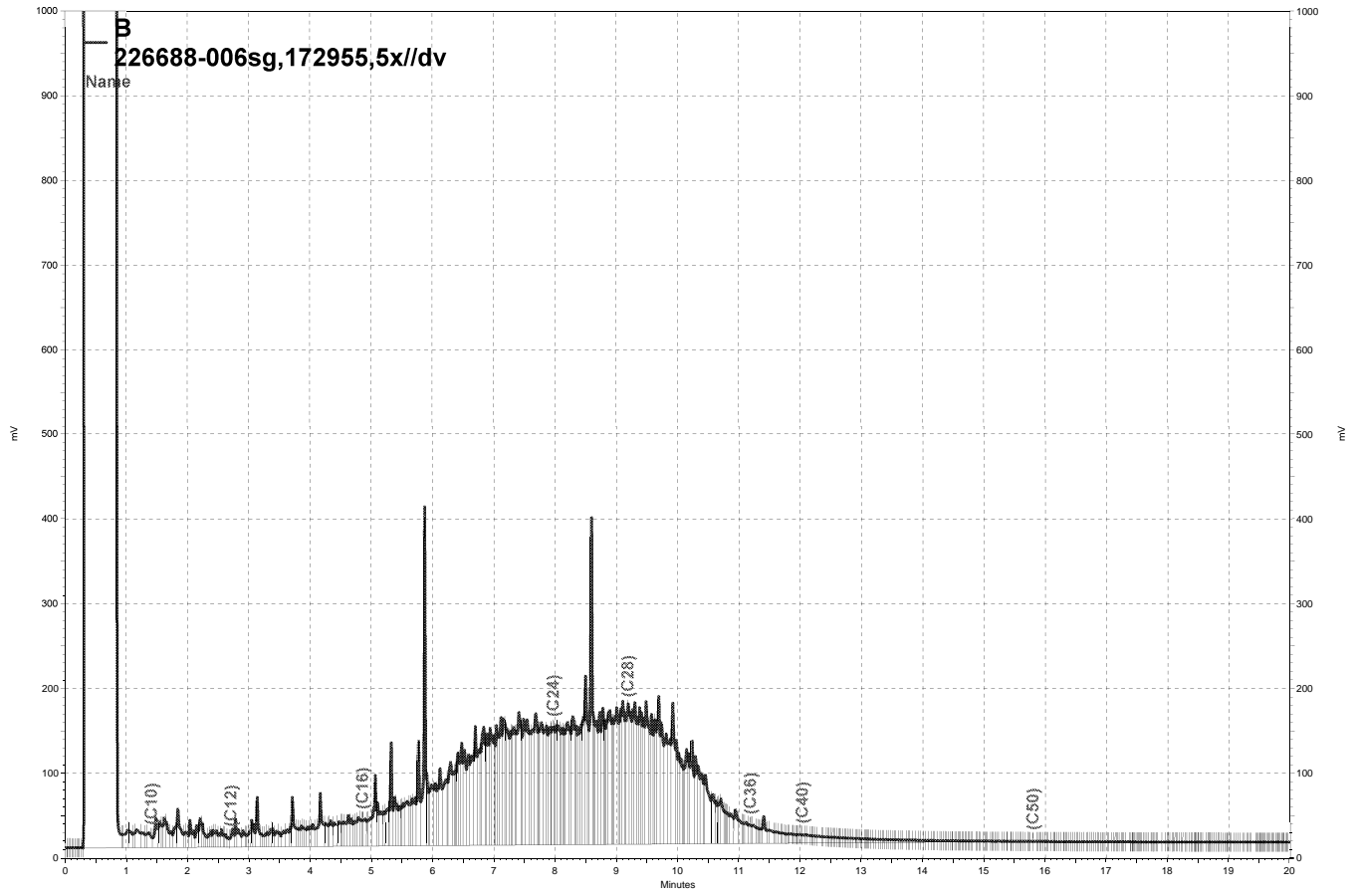




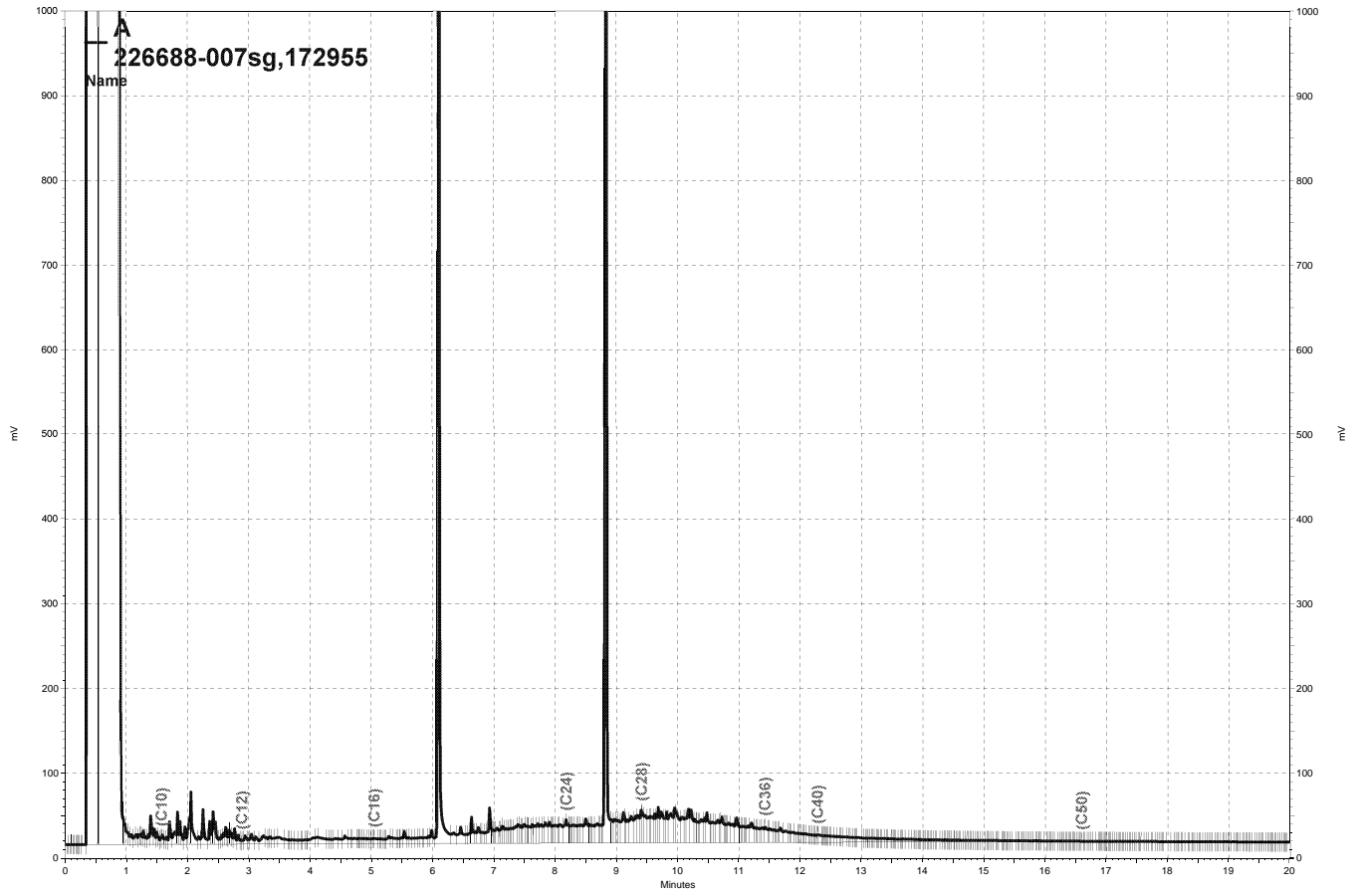
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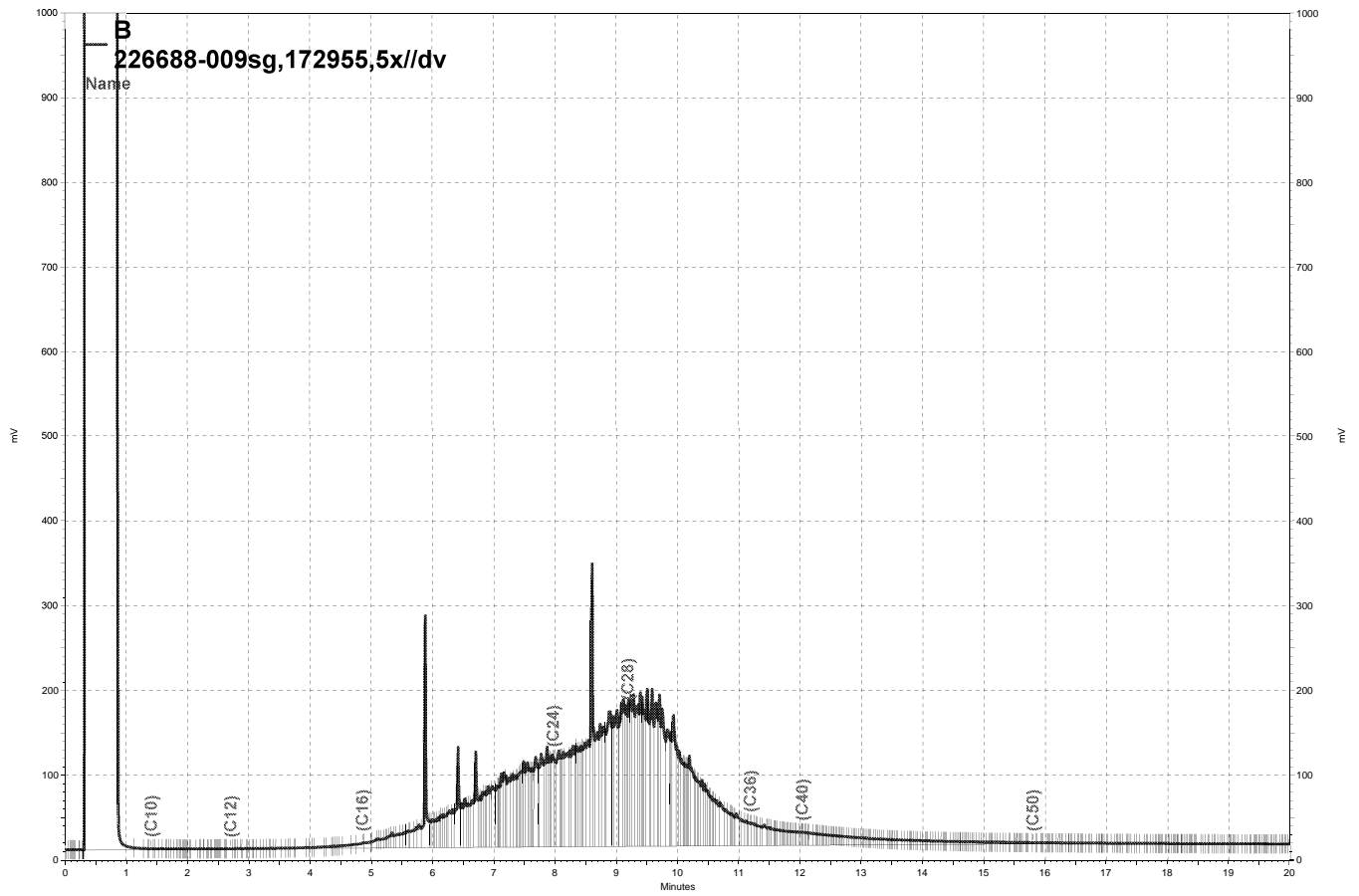
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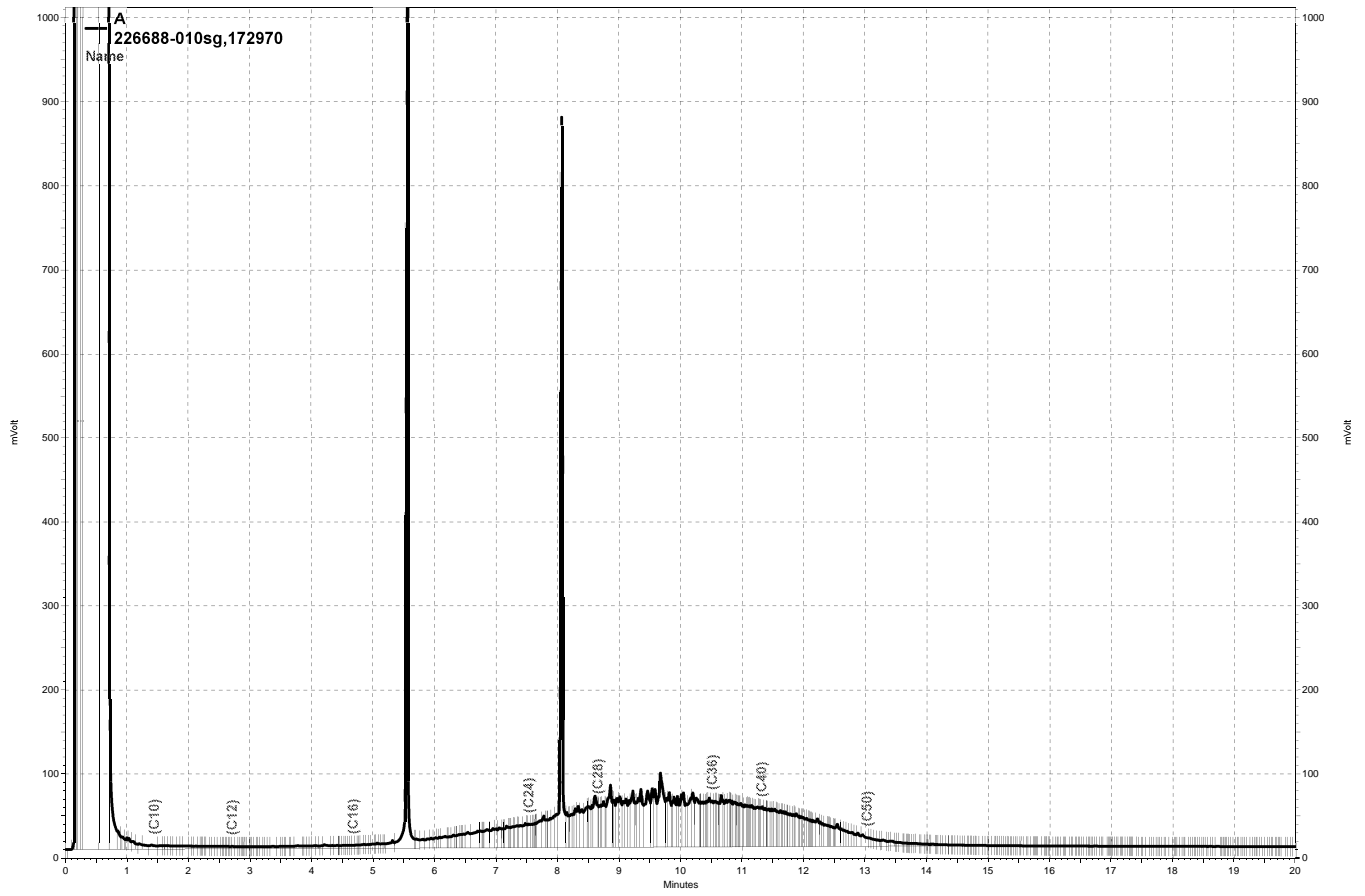
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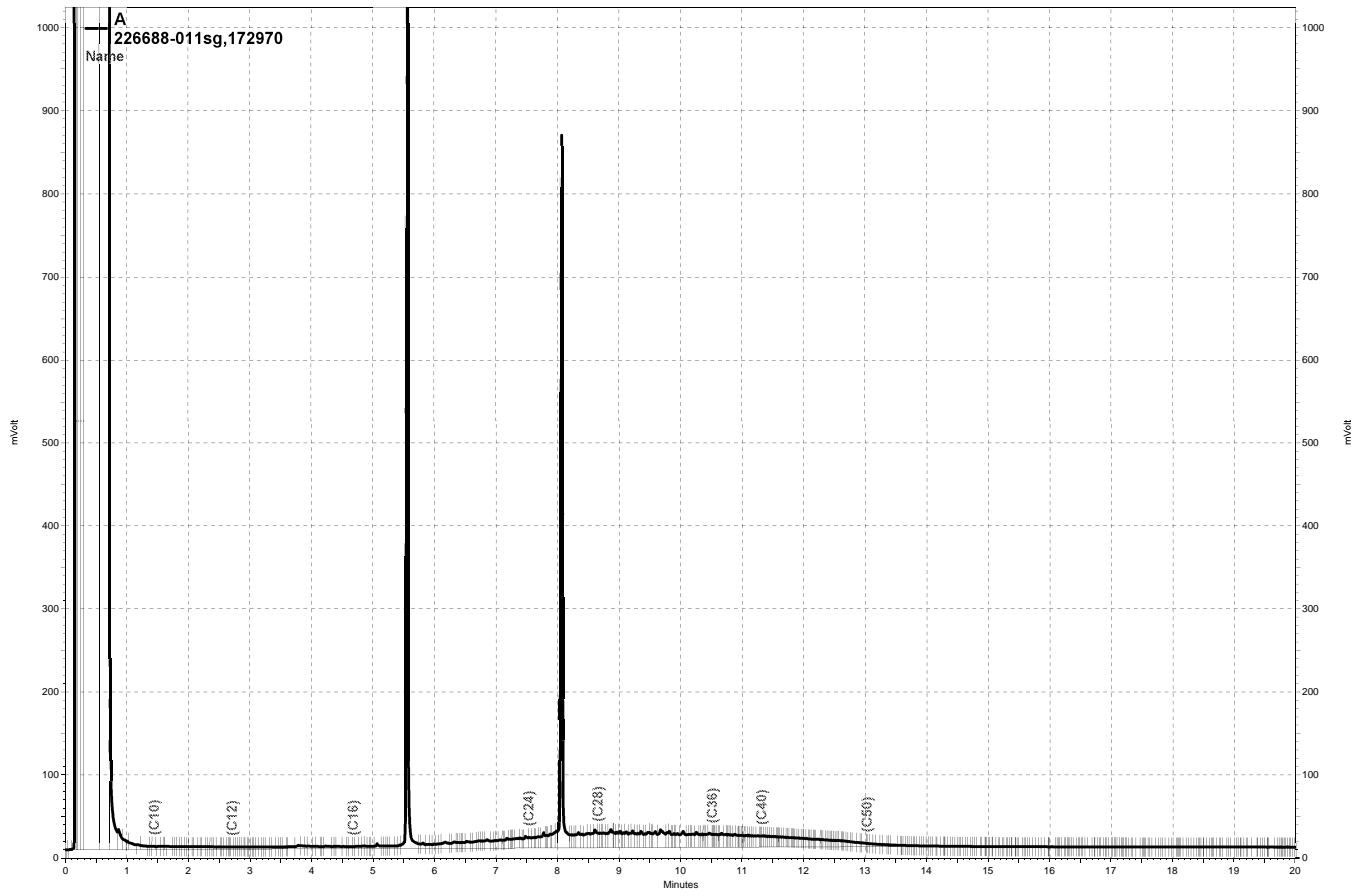
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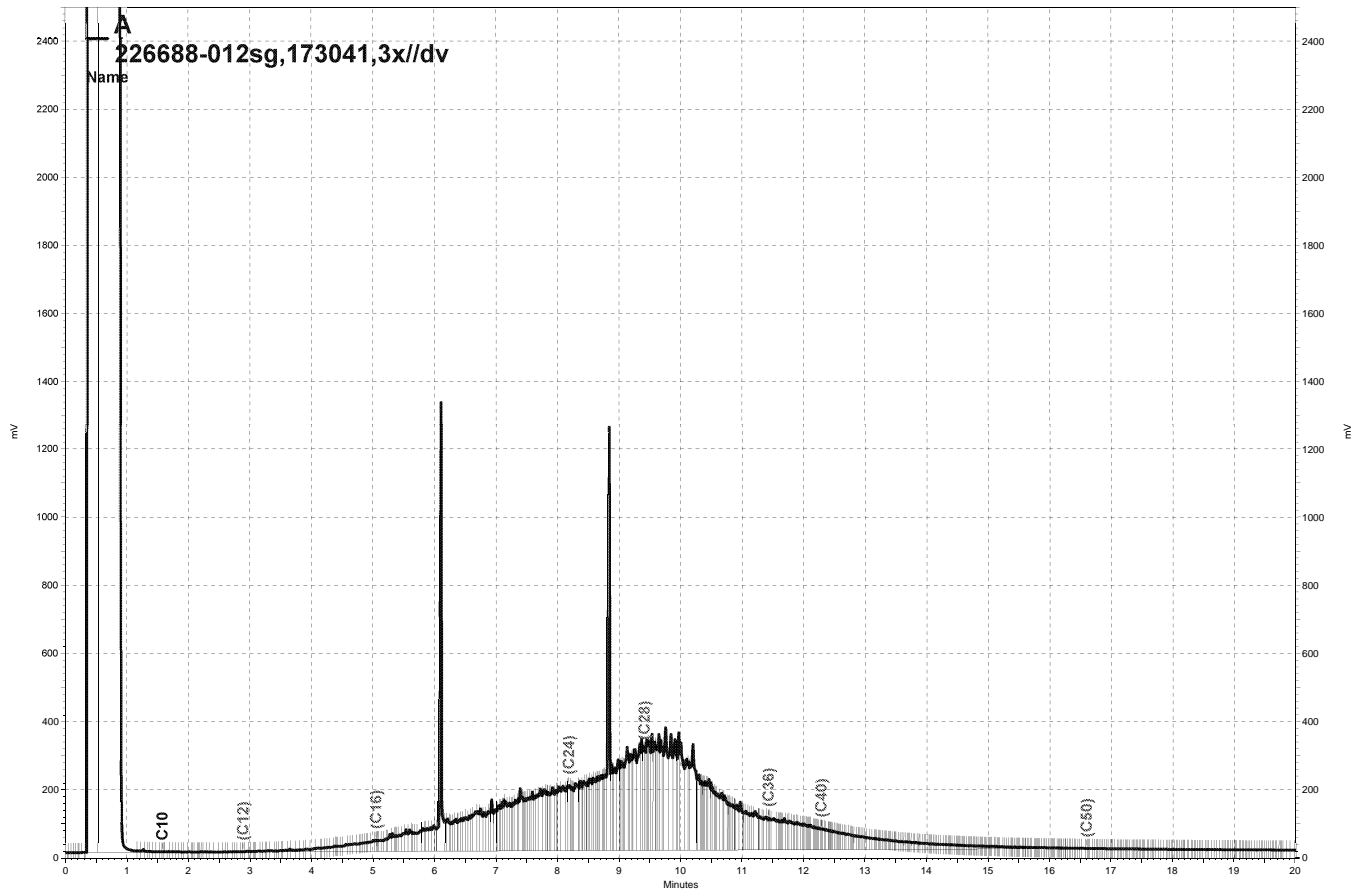
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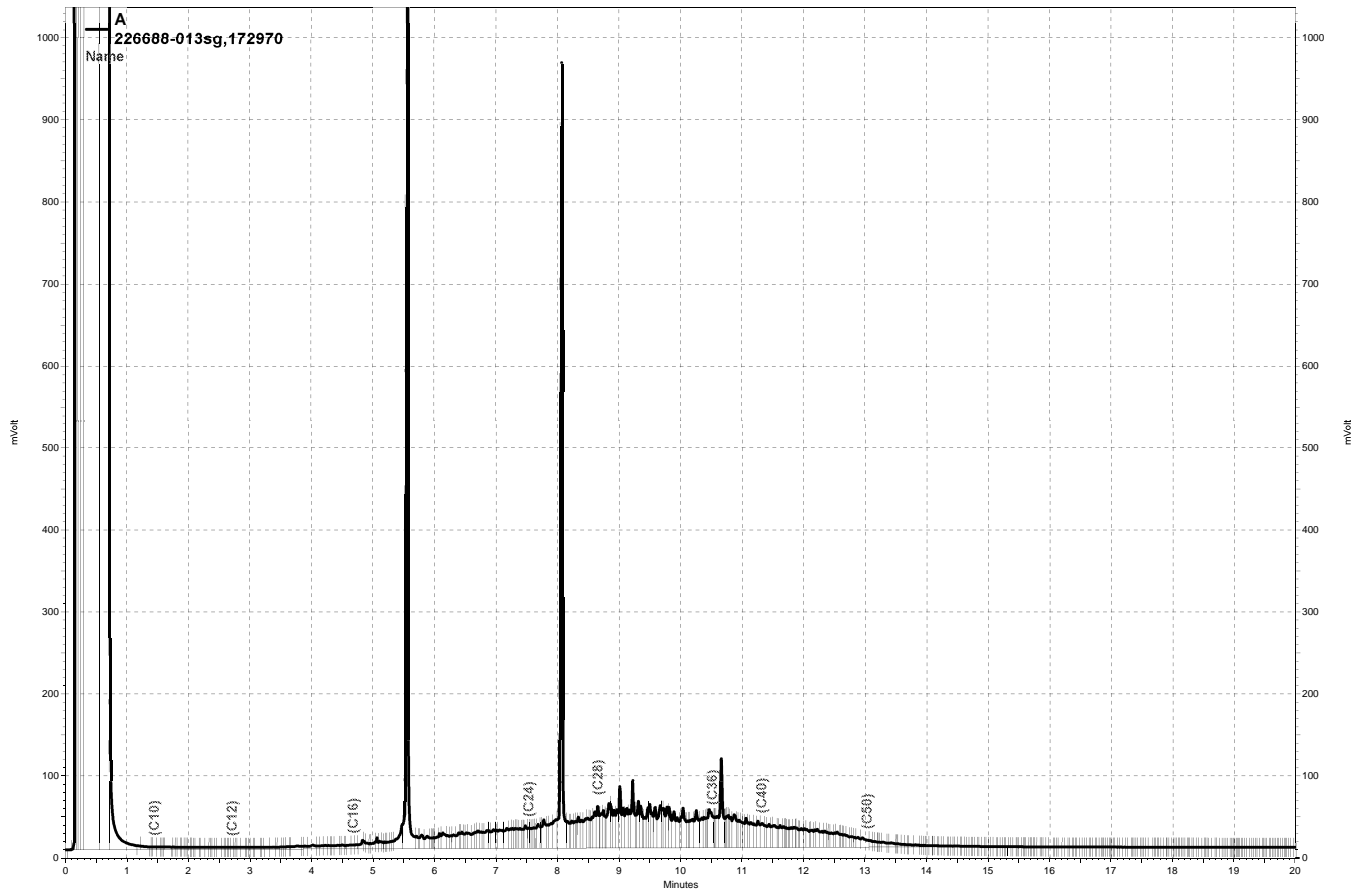


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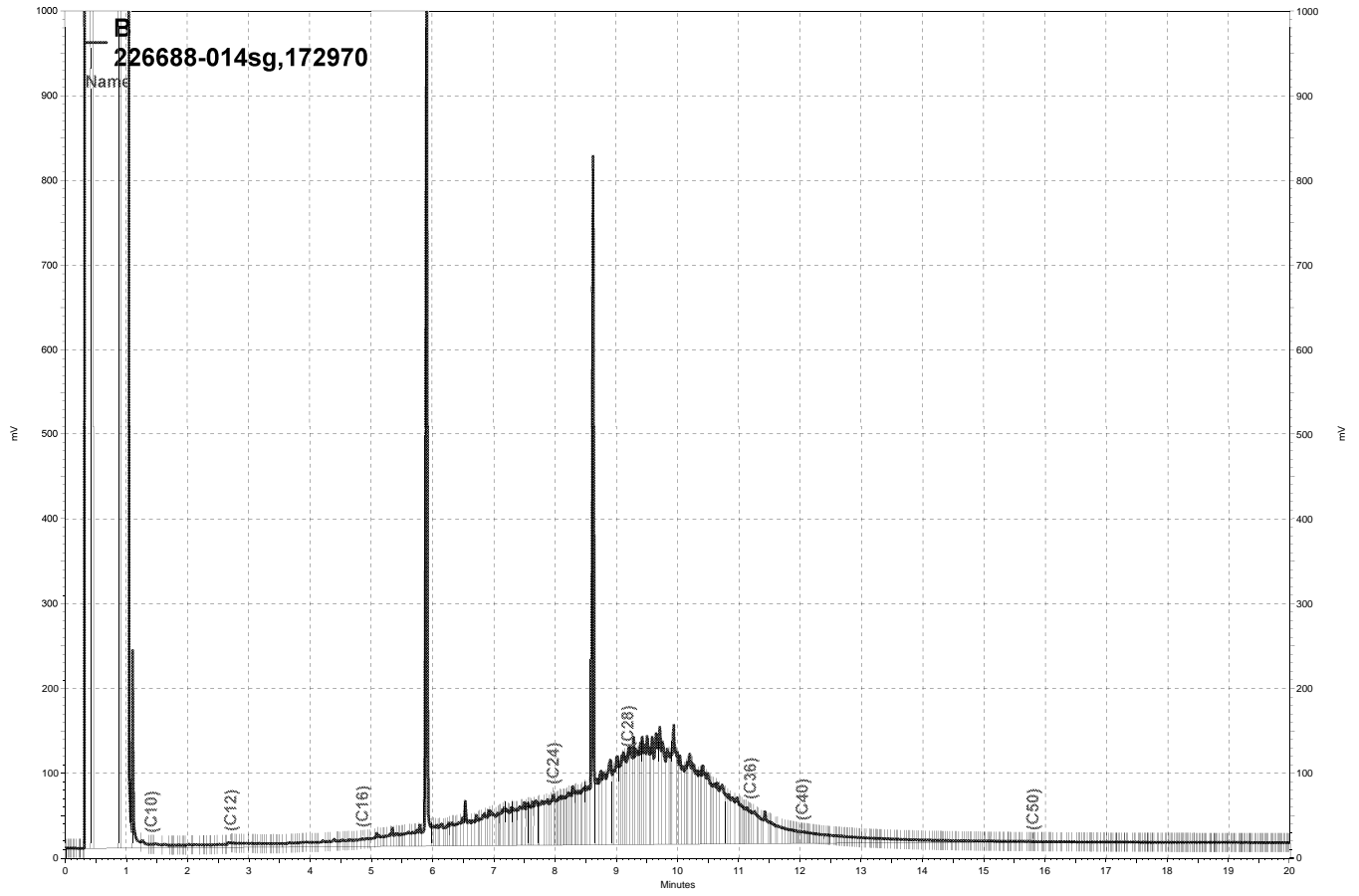


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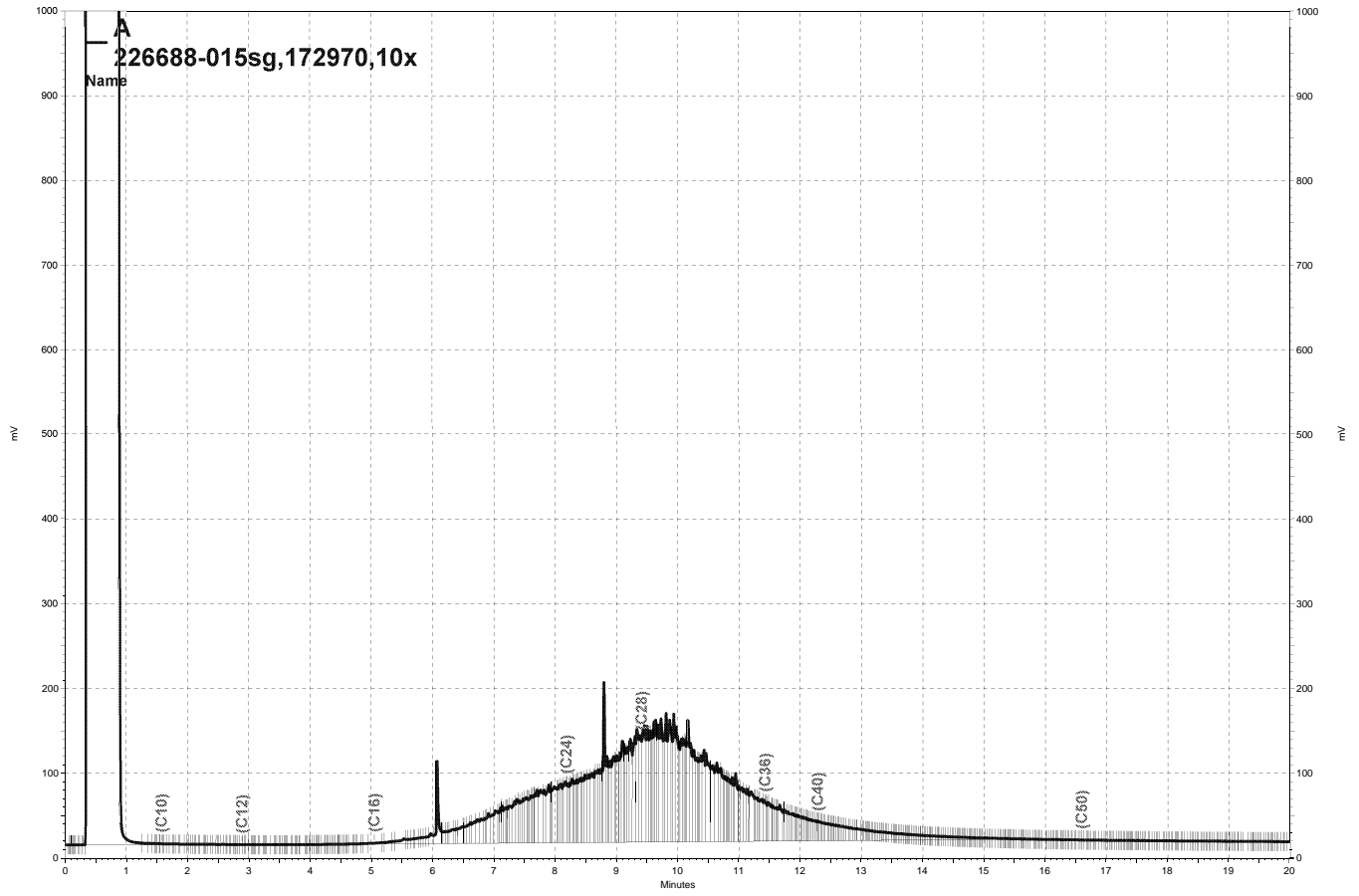




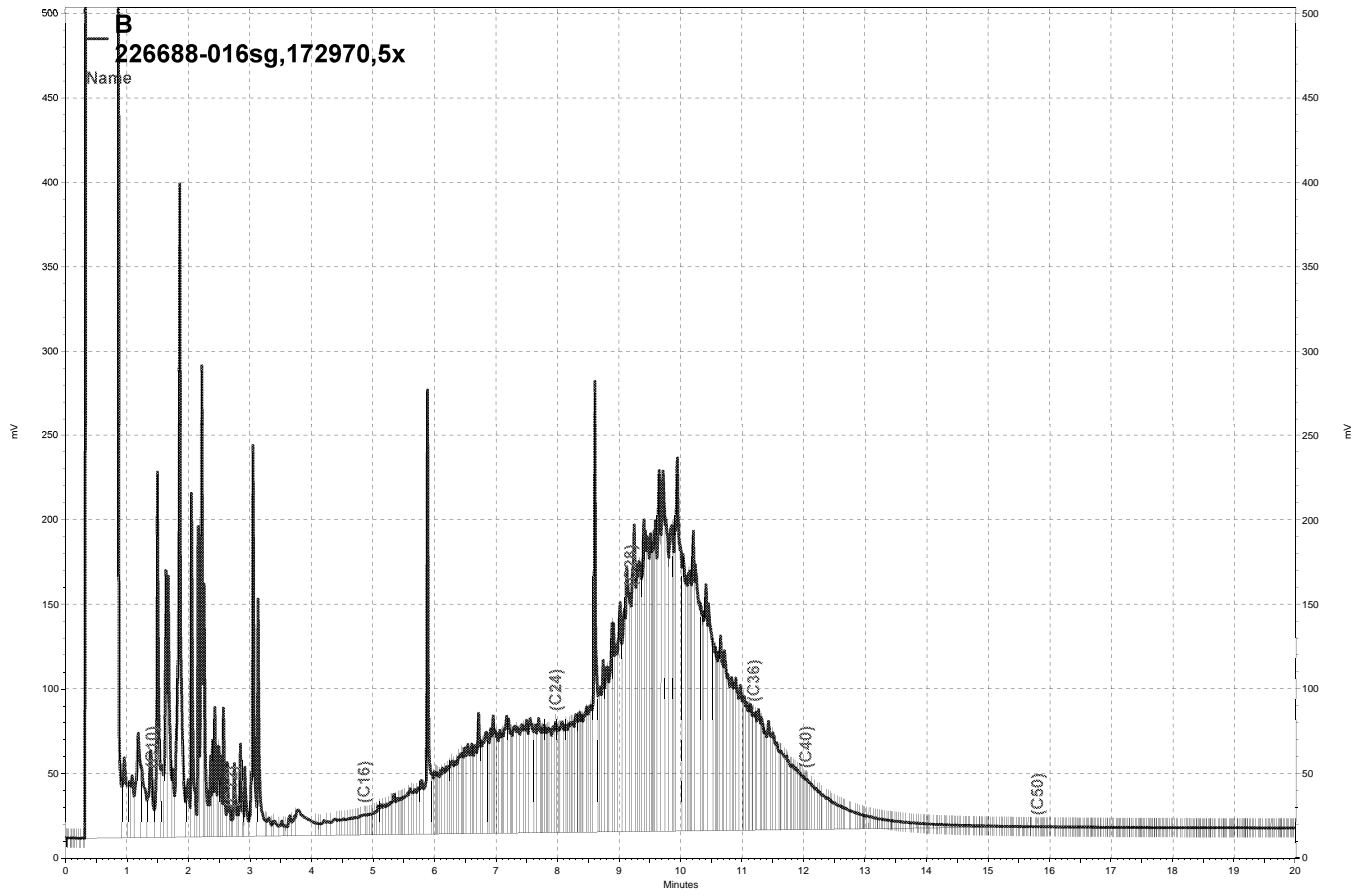
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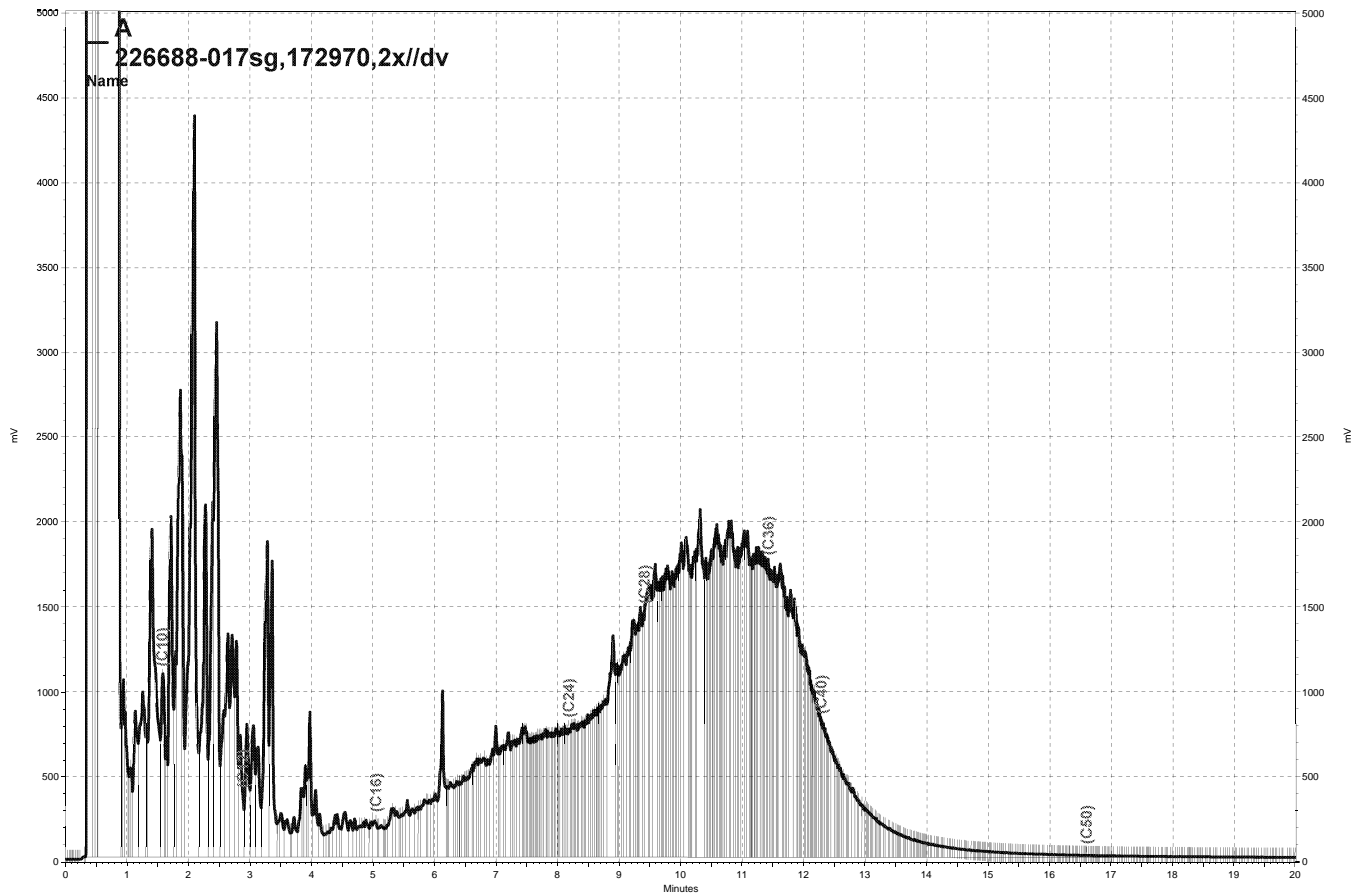
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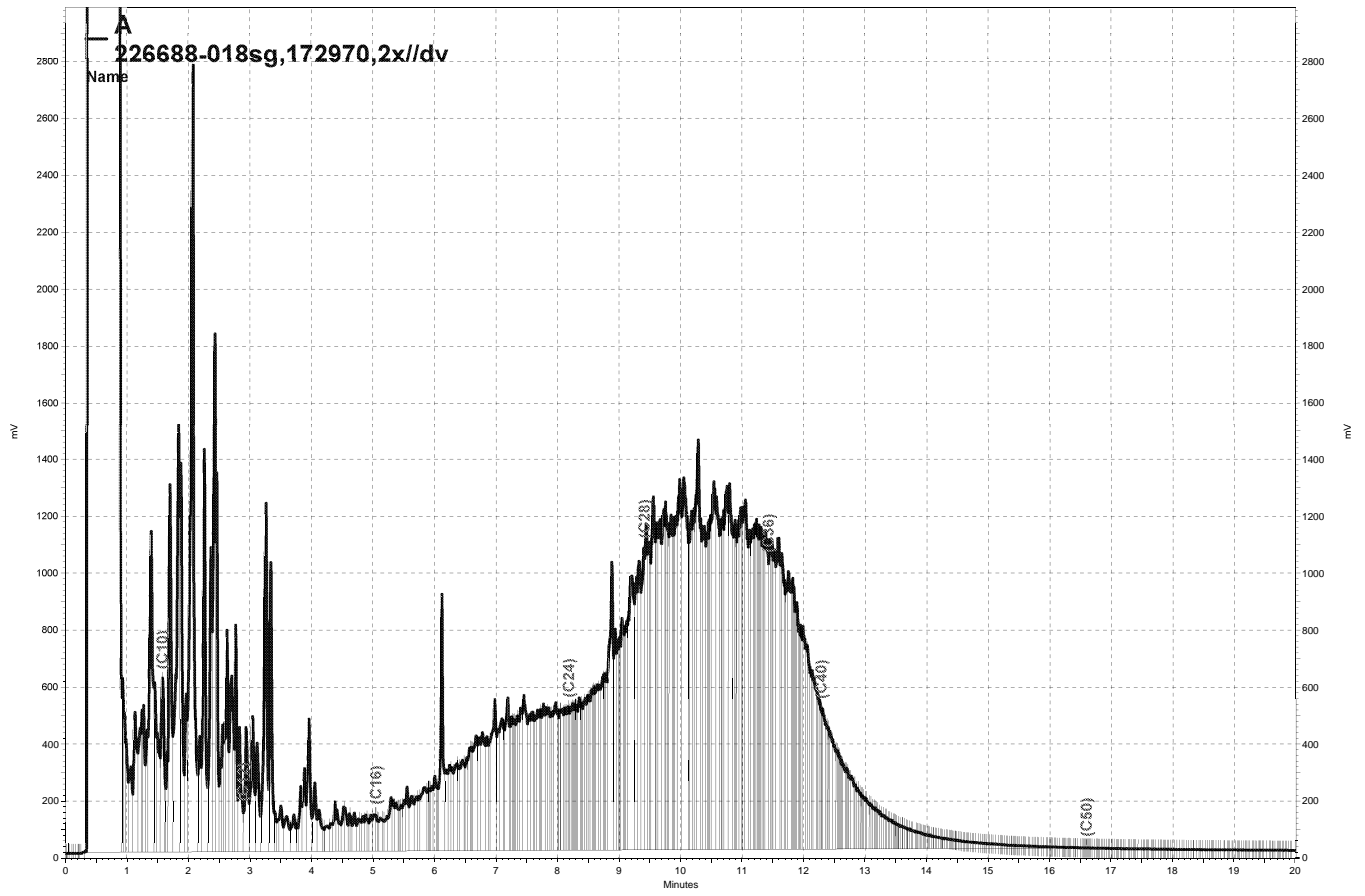
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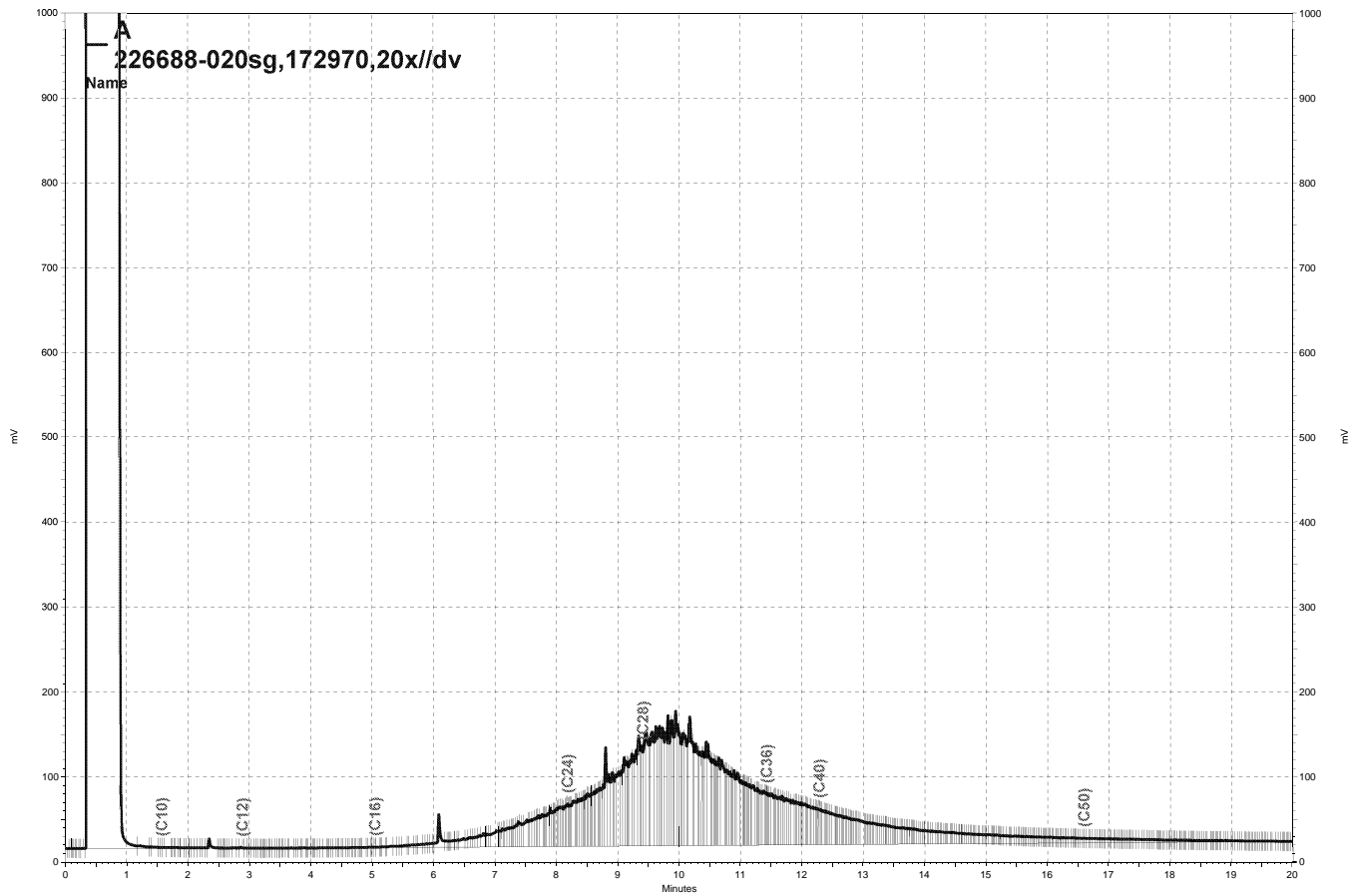
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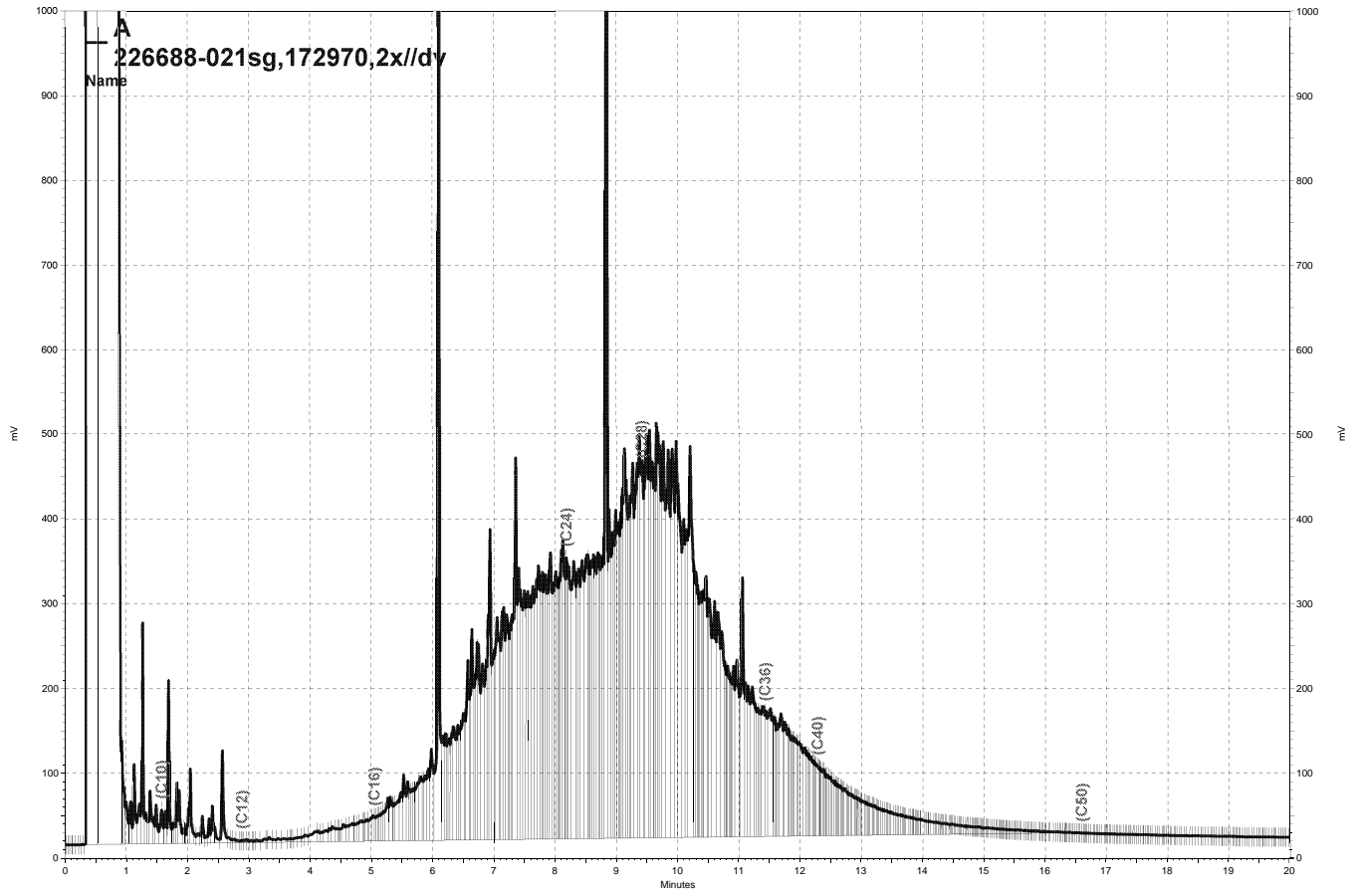
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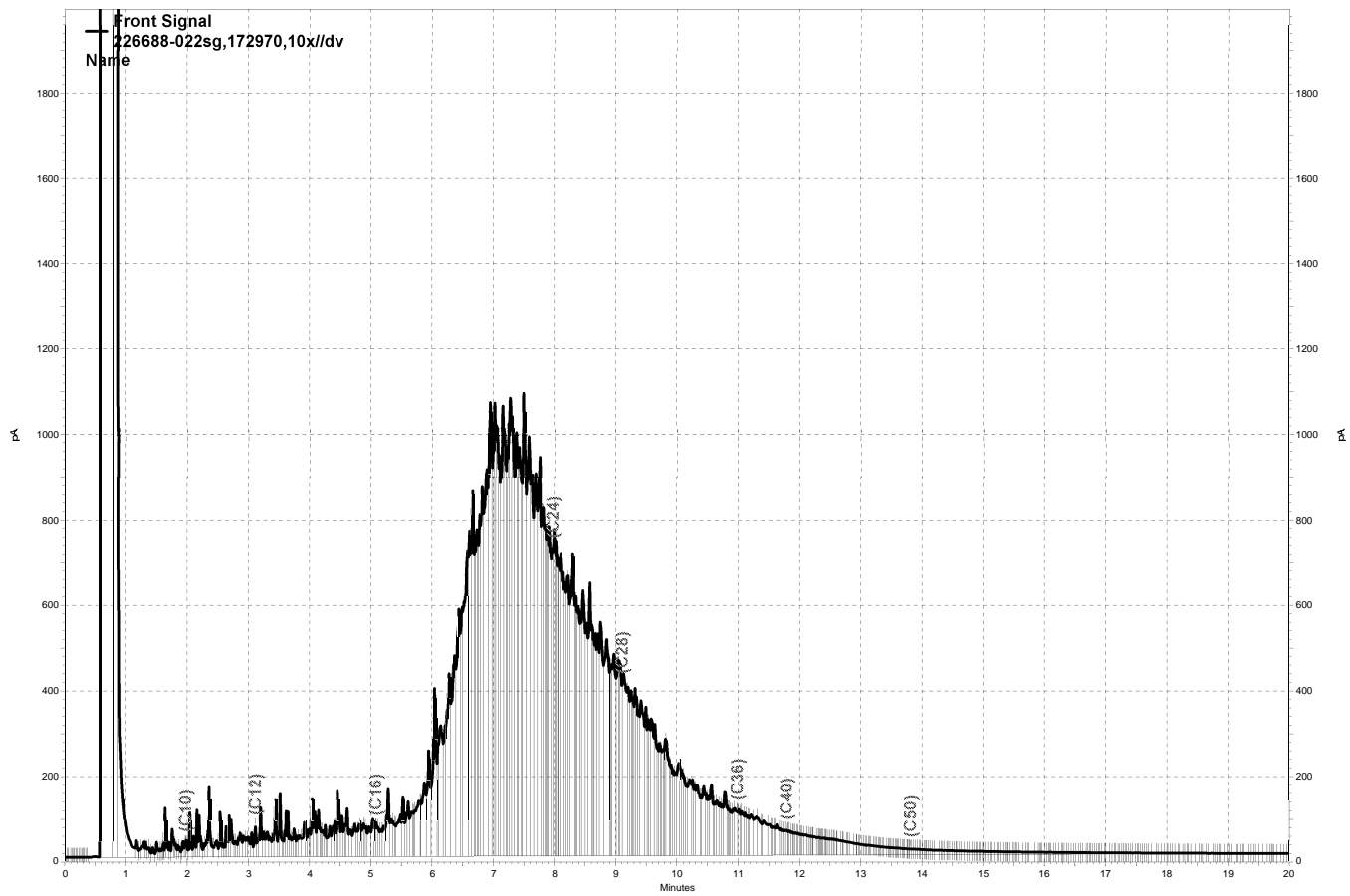


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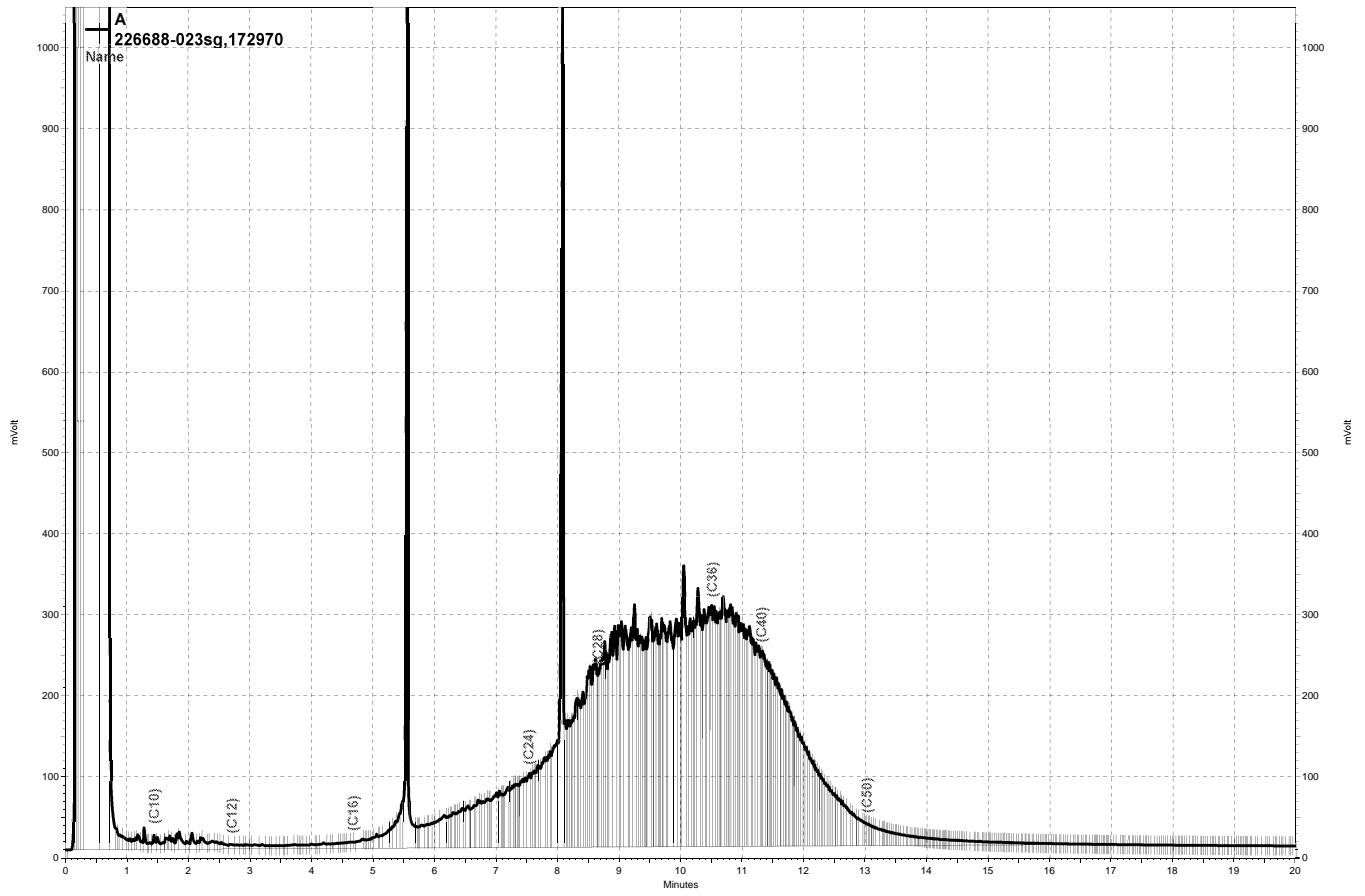


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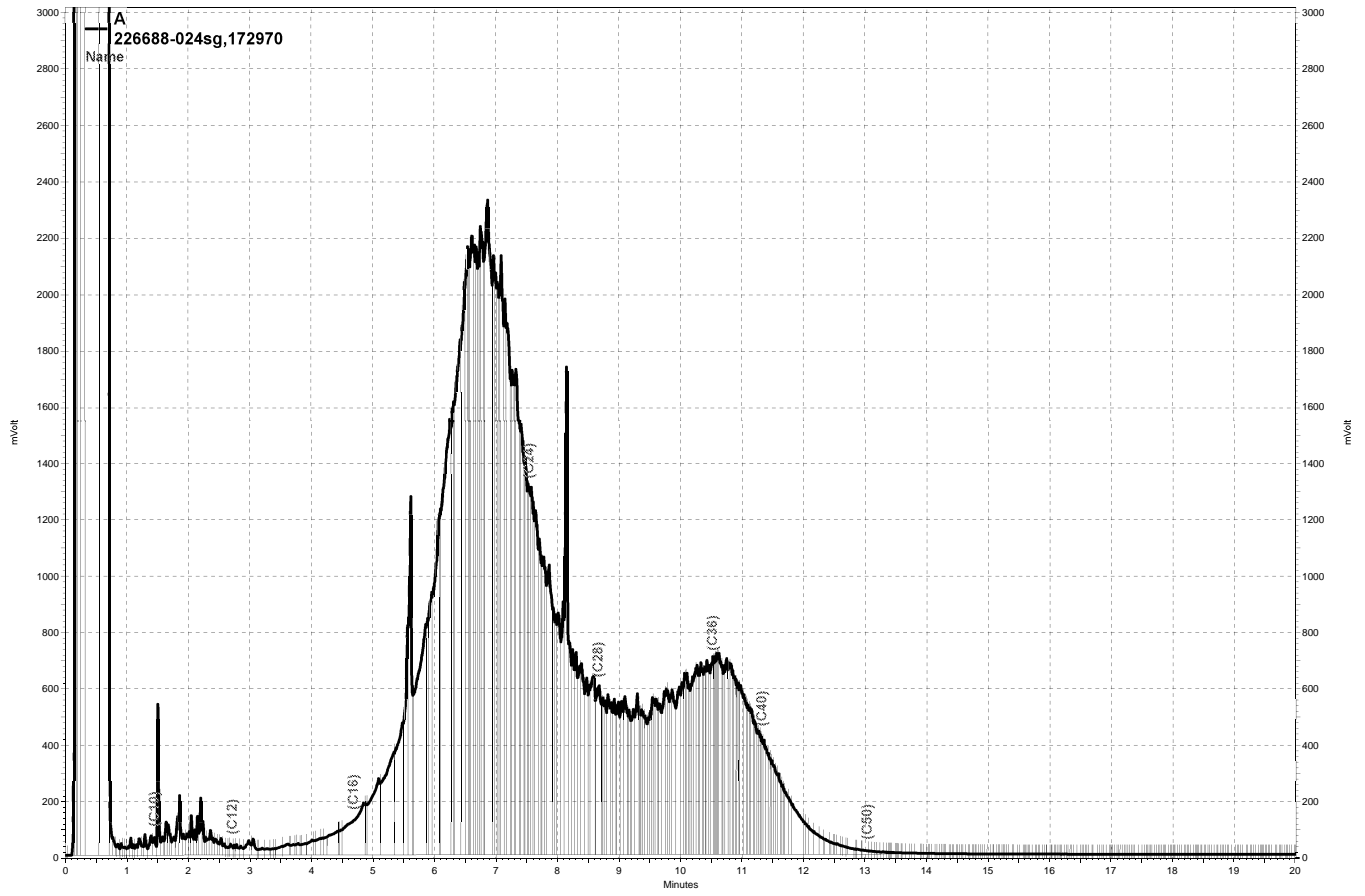




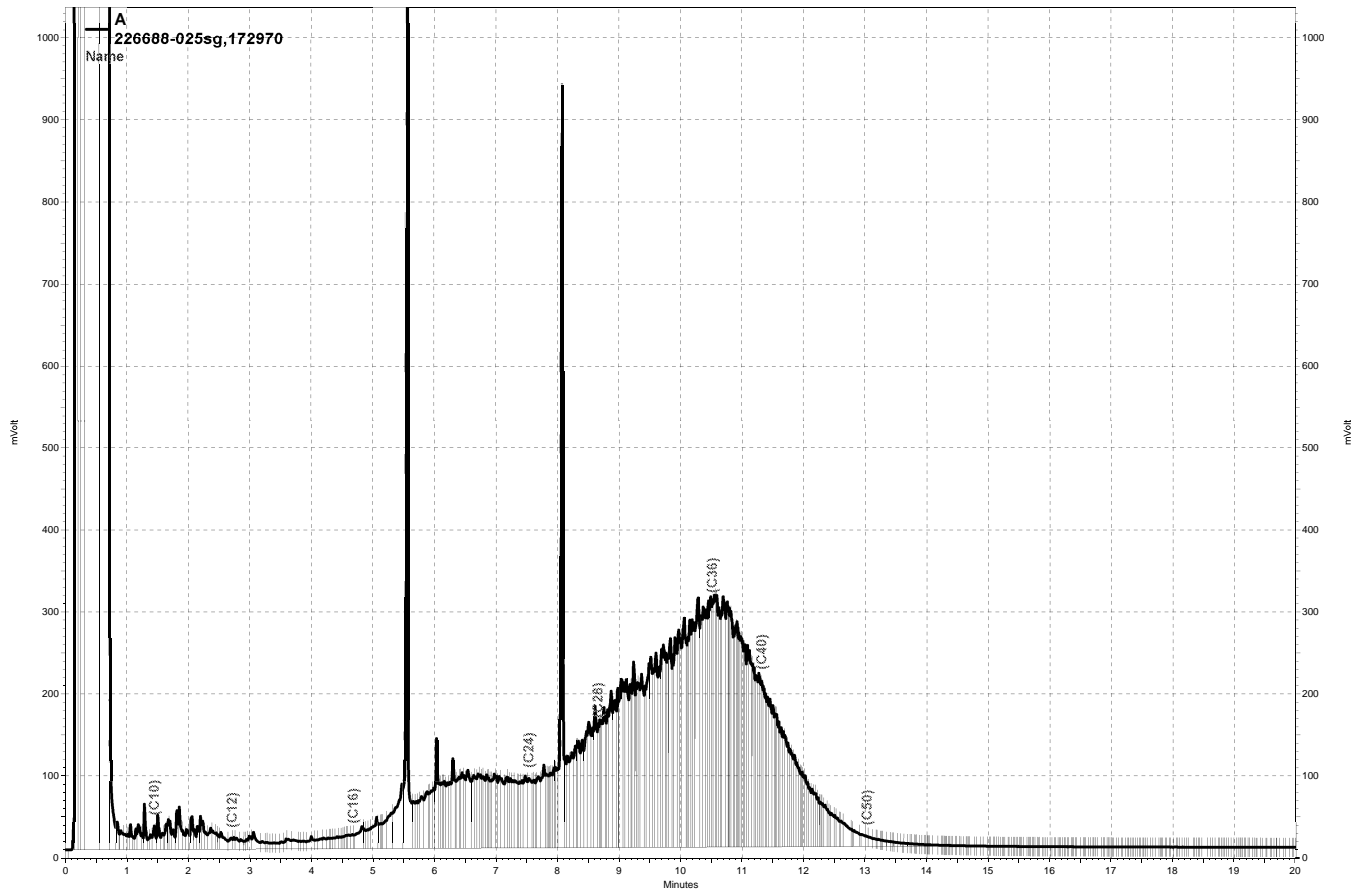
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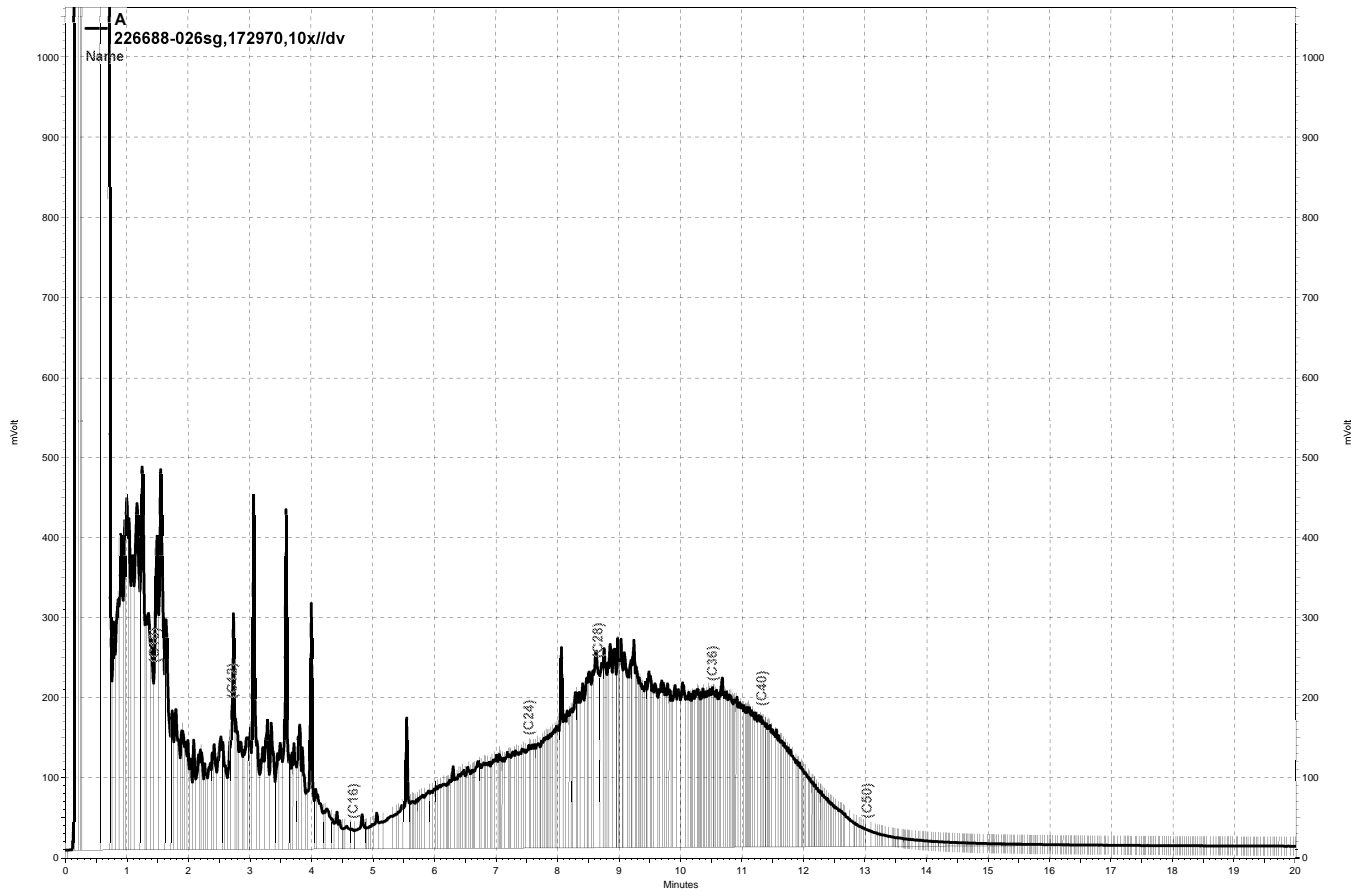
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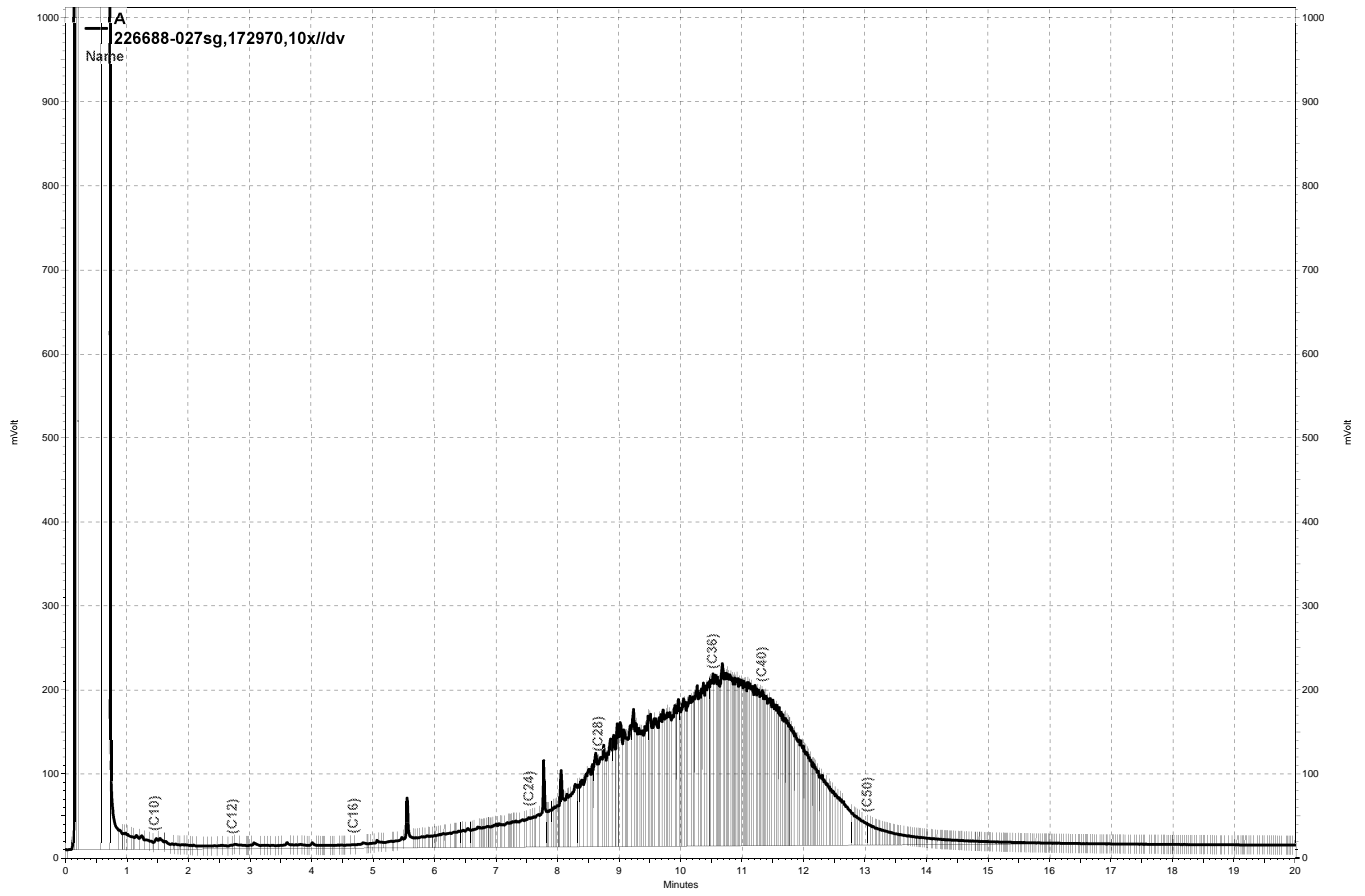
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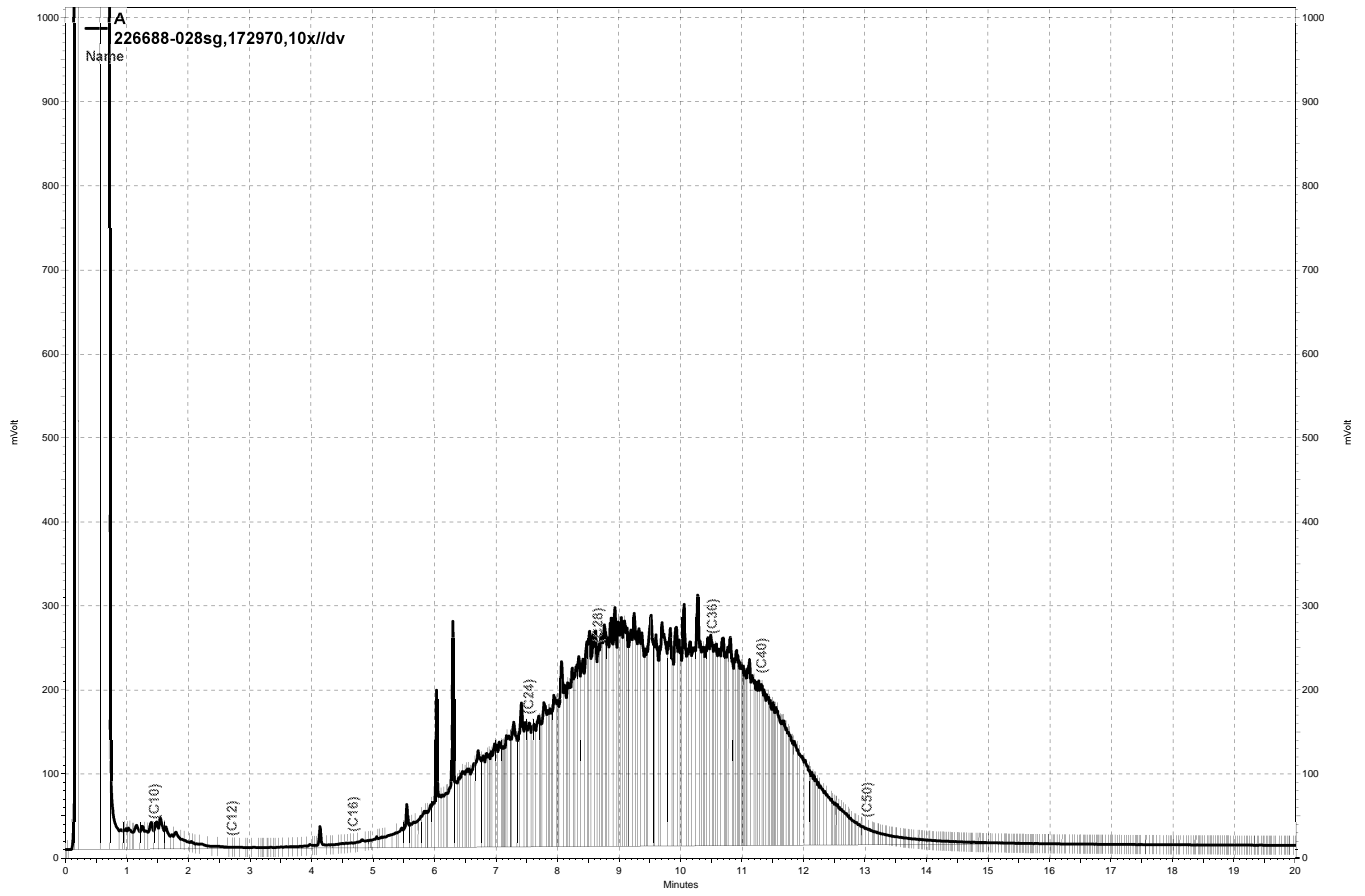
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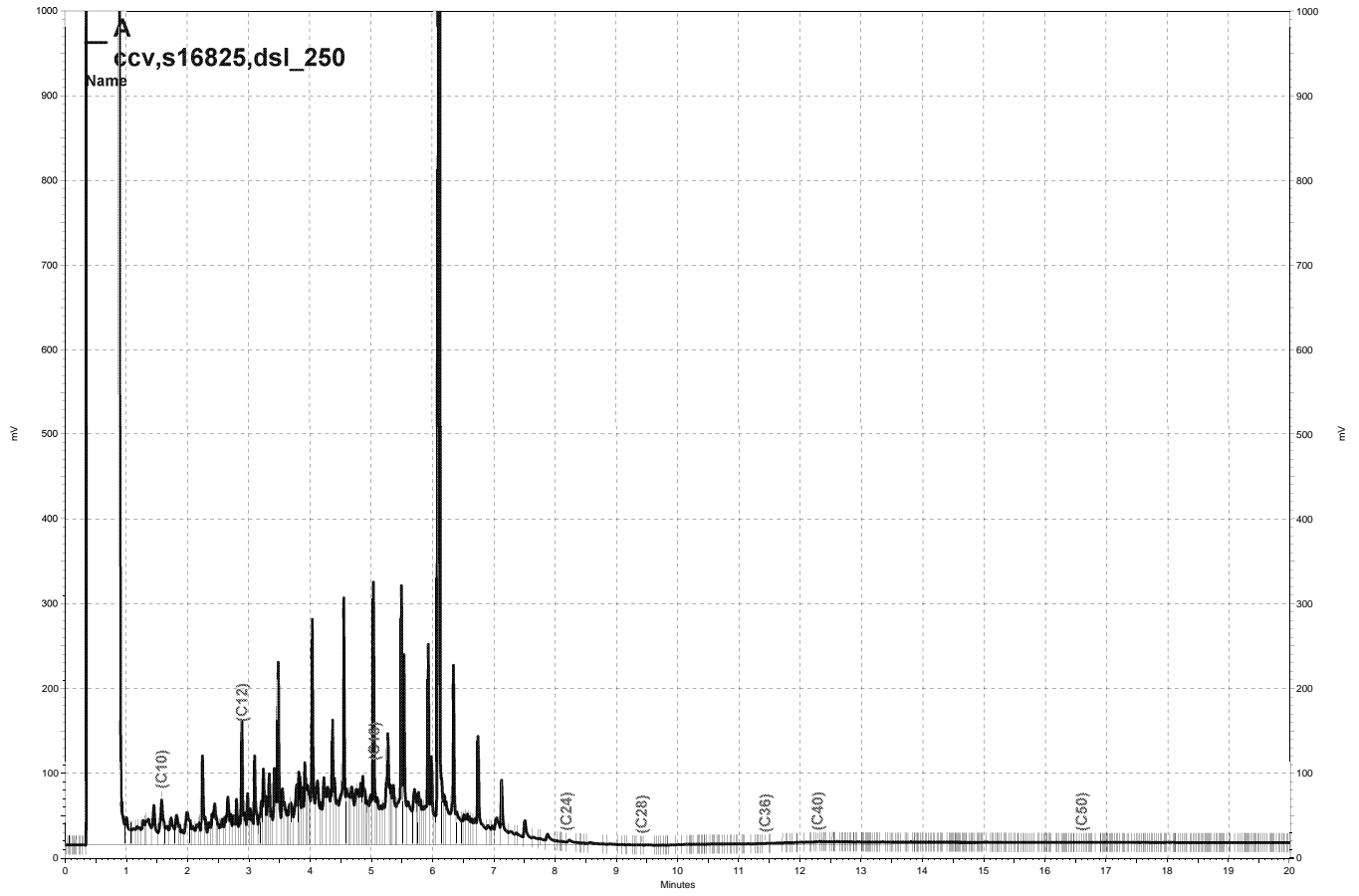
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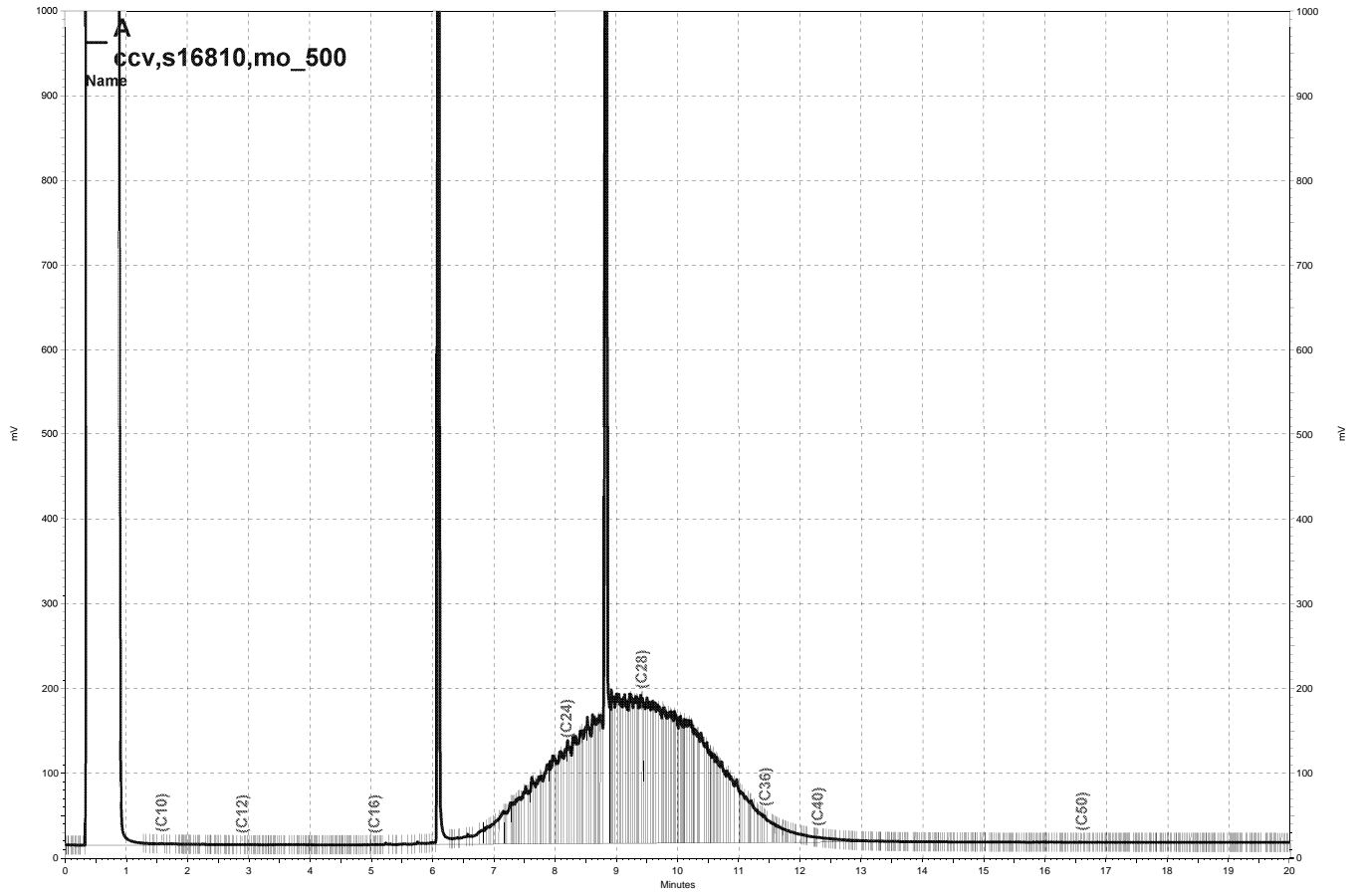


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— \\Lims\gdrive\ezchrom\Projects\GC17A\Data\080a005, A

### Purgeable Organics by GC/MS

Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-25-7.5	Diln Fac:	0.9058
Lab ID:	226688-002	Batch#:	172873
Matrix:	Soil	Sampled:	03/16/11
Units:	ug/Kg	Received:	03/16/11
Basis:	as received	Analyzed:	03/17/11

Analyte	Result	RL
Freon 12	ND	9.1
Chloromethane	ND	9.1
Vinyl Chloride	ND	9.1
Bromomethane	ND	9.1
Chloroethane	ND	9.1
Trichlorofluoromethane	ND	4.5
Acetone	ND	18
Freon 113	ND	4.5
1,1-Dichloroethene	ND	4.5
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.5
MTBE	ND	4.5
trans-1,2-Dichloroethene	ND	4.5
Vinyl Acetate	ND	45
1,1-Dichloroethane	ND	4.5
2-Butanone	ND	9.1
cis-1,2-Dichloroethene	ND	4.5
2,2-Dichloropropane	ND	4.5
Chloroform	ND	4.5
Bromochloromethane	ND	4.5
1,1,1-Trichloroethane	ND	4.5
1,1-Dichloropropene	ND	4.5
Carbon Tetrachloride	ND	4.5
1,2-Dichloroethane	ND	4.5
Benzene	ND	4.5
Trichloroethene	ND	4.5
1,2-Dichloropropane	ND	4.5
Bromodichloromethane	ND	4.5
Dibromomethane	ND	4.5
4-Methyl-2-Pentanone	ND	9.1
cis-1,3-Dichloropropene	ND	4.5
Toluene	ND	4.5
trans-1,3-Dichloropropene	ND	4.5
1,1,2-Trichloroethane	ND	4.5
2-Hexanone	ND	9.1
1,3-Dichloropropane	ND	4.5
Tetrachloroethene	ND	4.5

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-25-7.5	Diln Fac:	0.9058
Lab ID:	226688-002	Batch#:	172873
Matrix:	Soil	Sampled:	03/16/11
Units:	ug/Kg	Received:	03/16/11
Basis:	as received	Analyzed:	03/17/11

Analyte	Result	RL
Dibromochloromethane	ND	4.5
1,2-Dibromoethane	ND	4.5
Chlorobenzene	ND	4.5
1,1,1,2-Tetrachloroethane	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5
Styrene	ND	4.5
Bromoform	ND	4.5
Isopropylbenzene	ND	4.5
1,1,2,2-Tetrachloroethane	ND	4.5
1,2,3-Trichloropropane	ND	4.5
Propylbenzene	ND	4.5
Bromobenzene	ND	4.5
1,3,5-Trimethylbenzene	ND	4.5
2-Chlorotoluene	ND	4.5
4-Chlorotoluene	ND	4.5
tert-Butylbenzene	ND	4.5
1,2,4-Trimethylbenzene	ND	4.5
sec-Butylbenzene	ND	4.5
para-Isopropyl Toluene	ND	4.5
1,3-Dichlorobenzene	ND	4.5
1,4-Dichlorobenzene	ND	4.5
n-Butylbenzene	ND	4.5
1,2-Dichlorobenzene	ND	4.5
1,2-Dibromo-3-Chloropropane	ND	4.5
1,2,4-Trichlorobenzene	ND	4.5
Hexachlorobutadiene	ND	4.5
Naphthalene	13	4.5
1,2,3-Trichlorobenzene	ND	4.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	79-120
1,2-Dichloroethane-d4	80	72-148
Toluene-d8	111	80-120
Bromofluorobenzene	127	78-130

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Aromatics by GC/MS

Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Matrix:	Soil	Sampled:	03/16/11
Units:	ug/Kg	Received:	03/16/11
Basis:	as received		

Field ID:	SB-29-2.5	Diln Fac:	50.92
Type:	SAMPLE	Batch#:	172973
Lab ID:	226688-004	Analyzed:	03/21/11

Analyte	Result	RL
Benzene	ND	250
Toluene	ND	250
Ethylbenzene	2,000	250
m,p-Xylenes	ND	250
o-Xylene	ND	250

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	80	72-148
Toluene-d8	92	80-120
Bromofluorobenzene	100	78-130

Field ID:	SB-29-7.5	Diln Fac:	1,289
Type:	SAMPLE	Batch#:	172953
Lab ID:	226688-005	Analyzed:	03/20/11

Analyte	Result	RL
Benzene	ND	6,400
Toluene	ND	6,400
Ethylbenzene	75,000	6,400
m,p-Xylenes	18,000	6,400
o-Xylene	ND	6,400

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	77	72-148
Toluene-d8	100	80-120
Bromofluorobenzene	93	78-130

Field ID:	SB-29-12.5	Diln Fac:	1.062
Type:	SAMPLE	Batch#:	172873
Lab ID:	226688-006	Analyzed:	03/17/11

Analyte	Result	RL
Benzene	ND	5.3
Toluene	ND	5.3
Ethylbenzene	ND	5.3
m,p-Xylenes	8.2	5.3
o-Xylene	ND	5.3

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	83	72-148
Toluene-d8	102	80-120
Bromofluorobenzene	151 *	78-130

\*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Purgeable Aromatics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Sampled: 03/16/11
Units:	ug/Kg	Received: 03/16/11
Basis:	as received	

Field ID: SB-29-16.0 Diln Fac: 1.241  
 Type: SAMPLE Batch#: 172873  
 Lab ID: 226688-007 Analyzed: 03/17/11

Analyte	Result	RL
Benzene	ND	6.2
Toluene	ND	6.2
Ethylbenzene	ND	6.2
m,p-Xylenes	ND	6.2
o-Xylene	ND	6.2

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	75	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	92	78-130

Field ID: SB-31-2.5 Diln Fac: 0.9025  
 Type: SAMPLE Batch#: 172873  
 Lab ID: 226688-015 Analyzed: 03/17/11

Analyte	Result	RL
Benzene	ND	4.5
Toluene	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	76	72-148
Toluene-d8	102	80-120
Bromofluorobenzene	106	78-130

Field ID: SB-31-7.5 Diln Fac: 0.7587  
 Type: SAMPLE Batch#: 172873  
 Lab ID: 226688-016 Analyzed: 03/17/11

Analyte	Result	RL
Benzene	ND	3.8
Toluene	ND	3.8
Ethylbenzene	ND	3.8
m,p-Xylenes	ND	3.8
o-Xylene	ND	3.8

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	76	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	92	78-130

\*= Value outside of QC limits; see narrative  
 ND= Not Detected  
 RL= Reporting Limit

Purgeable Aromatics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Sampled: 03/16/11
Units:	ug/Kg	Received: 03/16/11
Basis:	as received	

Field ID: SB-31-12.5 Diln Fac: 43.63  
 Type: SAMPLE Batch#: 172953  
 Lab ID: 226688-017 Analyzed: 03/20/11

Analyte	Result	RL
Benzene	ND	220
Toluene	ND	220
Ethylbenzene	ND	220
m,p-Xylenes	ND	220
o-Xylene	ND	220

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	81	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	116	78-130

Field ID: SB-31-16.0 Diln Fac: 99.60  
 Type: SAMPLE Batch#: 172953  
 Lab ID: 226688-018 Analyzed: 03/20/11

Analyte	Result	RL
Benzene	ND	500
Toluene	ND	500
Ethylbenzene	ND	500
m,p-Xylenes	ND	500
o-Xylene	ND	500

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	79	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	92	78-130

Type: BLANK Batch#: 172873  
 Lab ID: QC584196 Analyzed: 03/17/11  
 Diln Fac: 1.000

Analyte	Result	RL
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	82	72-148
Toluene-d8	103	80-120
Bromofluorobenzene	91	78-130

\*= Value outside of QC limits; see narrative  
 ND= Not Detected  
 RL= Reporting Limit

**Purgeable Aromatics by GC/MS**

Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Matrix:	Soil	Sampled:	03/16/11
Units:	ug/Kg	Received:	03/16/11
Basis:	as received		

Type:	BLANK	Batch#:	172953
Lab ID:	QC584504	Analyzed:	03/20/11
Diln Fac:	1.000		

Analyte	Result	RL
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	72-148
Toluene-d8	95	80-120
Bromofluorobenzene	94	78-130

Type:	BLANK	Batch#:	172973
Lab ID:	QC584582	Analyzed:	03/21/11
Diln Fac:	1.000		

Analyte	Result	RL
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	92	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	95	78-130

\*= Value outside of QC limits; see narrative  
 ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584196	Batch#: 172873
Matrix:	Soil	Analyzed: 03/17/11
Units:	ug/Kg	

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

ND= Not Detected

RL= Reporting Limit



**Batch QC Report**

Purgeable Organics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584196	Batch#: 172873
Matrix:	Soil	Analyzed: 03/17/11
Units:	ug/Kg	

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

Surrogate	%REC	Limits
Dibromofluoromethane	90	79-120
1,2-Dichloroethane-d4	82	72-148
Toluene-d8	103	80-120
Bromofluorobenzene	91	78-130

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

Purgeable Aromatics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 172873
Units:	ug/Kg	Analyzed: 03/17/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584197

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	18.80	94	80-128
Toluene	20.00	18.95	95	80-130
Ethylbenzene	20.00	19.76	99	80-133
m,p-Xylenes	40.00	38.39	96	80-134
o-Xylene	20.00	18.72	94	79-130

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	82	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	90	78-130

Type: BSD Lab ID: QC584198

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	19.30	96	80-128	3	20
Toluene	20.00	19.03	95	80-130	0	20
Ethylbenzene	20.00	18.59	93	80-133	6	20
m,p-Xylenes	40.00	38.57	96	80-134	0	20
o-Xylene	20.00	19.28	96	79-130	3	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	79	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	90	78-130

RPD= Relative Percent Difference

## Batch QC Report

Purgeable Organics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 172873
Units:	ug/Kg	Analyzed: 03/17/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584197

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	18.88	94	68-134
Benzene	20.00	18.80	94	80-128
Trichloroethene	20.00	18.36	92	75-130
Toluene	20.00	18.95	95	80-130
Chlorobenzene	20.00	19.73	99	80-126

Surrogate	%REC	Limits
Dibromofluoromethane	91	79-120
1,2-Dichloroethane-d4	82	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	90	78-130

Type: BSD Lab ID: QC584198

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	18.17	91	68-134	4	27
Benzene	20.00	19.30	96	80-128	3	20
Trichloroethene	20.00	19.04	95	75-130	4	20
Toluene	20.00	19.03	95	80-130	0	20
Chlorobenzene	20.00	18.74	94	80-126	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	90	79-120
1,2-Dichloroethane-d4	79	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	90	78-130

RPD= Relative Percent Difference

**Batch QC Report**

Purgeable Aromatics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#: 172873
MSS Lab ID:	226679-001	Sampled: 03/16/11
Matrix:	Soil	Received: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11
Basis:	as received	

Type: MS Diln Fac: 0.9634  
 Lab ID: QC584200

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	<0.8919	48.17	40.23	84	69-125
Toluene	<1.203	48.17	41.20	86	62-128
Ethylbenzene	<1.107	48.17	40.92	85	57-136
m,p-Xylenes	<0.5678	96.34	79.07	82	57-136
o-Xylene	<1.037	48.17	41.16	85	56-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	78	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	90	78-130

Type: MSD Diln Fac: 0.9542  
 Lab ID: QC584201

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	47.71	41.88	88	69-125	5	36
Toluene	47.71	43.67	92	62-128	7	41
Ethylbenzene	47.71	43.24	91	57-136	6	43
m,p-Xylenes	95.42	85.58	90	57-136	9	46
o-Xylene	47.71	43.07	90	56-134	5	40

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	75	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	91	78-130

RPD= Relative Percent Difference

**Batch QC Report**

Purgeable Organics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#: 172873
MSS Lab ID:	226679-001	Sampled: 03/16/11
Matrix:	Soil	Received: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11
Basis:	as received	

Type: MS Diln Fac: 0.9634  
 Lab ID: QC584200

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5475	48.17	39.17	81	65-139
Benzene	<0.8919	48.17	40.23	84	69-125
Trichloroethene	<1.041	48.17	42.98	89	60-145
Toluene	<1.203	48.17	41.20	86	62-128
Chlorobenzene	<0.2688	48.17	39.36	82	56-127

Surrogate	%REC	Limits
Dibromofluoromethane	91	79-120
1,2-Dichloroethane-d4	78	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	90	78-130

Type: MSD Diln Fac: 0.9542  
 Lab ID: QC584201

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	47.71	40.35	85	65-139	4	38
Benzene	47.71	41.88	88	69-125	5	36
Trichloroethene	47.71	45.50	95	60-145	7	41
Toluene	47.71	43.67	92	62-128	7	41
Chlorobenzene	47.71	42.52	89	56-127	9	42

Surrogate	%REC	Limits
Dibromofluoromethane	87	79-120
1,2-Dichloroethane-d4	75	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	91	78-130

RPD= Relative Percent Difference

**Batch QC Report**

Purgeable Aromatics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 172953
Units:	ug/Kg	Analyzed: 03/20/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584505

Analyte	Spiked	Result	%REC	Limits
Benzene	20.00	19.03	95	80-128
Toluene	20.00	18.20	91	80-130
Ethylbenzene	20.00	18.41	92	80-133
m,p-Xylenes	40.00	36.82	92	80-134
o-Xylene	20.00	17.84	89	79-130

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	89	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	95	78-130

Type: BSD Lab ID: QC584506

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	20.00	18.83	94	80-128	1	20
Toluene	20.00	18.65	93	80-130	2	20
Ethylbenzene	20.00	18.84	94	80-133	2	20
m,p-Xylenes	40.00	36.04	90	80-134	2	20
o-Xylene	20.00	18.18	91	79-130	2	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	95	78-130

RPD= Relative Percent Difference

**Batch QC Report**

Purgeable Aromatics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 172973
Units:	ug/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584583

Analyte	Spiked	Result	%REC	Limits
Benzene	21.25	21.41	101	80-128
Toluene	21.25	20.47	96	80-130
Ethylbenzene	21.25	20.19	95	80-133
m,p-Xylenes	42.50	40.78	96	80-134
o-Xylene	21.25	19.83	93	79-130

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	94	78-130

Type: BSD Lab ID: QC584584

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	21.25	20.70	97	80-128	3	20
Toluene	21.25	19.71	93	80-130	4	20
Ethylbenzene	21.25	19.88	94	80-133	2	20
m,p-Xylenes	42.50	38.57	91	80-134	6	20
o-Xylene	21.25	20.06	94	79-130	1	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	89	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	94	78-130

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS			
Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-25-7.5	Batch#:	172878
Lab ID:	226688-002	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	ug/Kg	Prepared:	03/17/11
Basis:	as received	Analyzed:	03/18/11
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	340
Phenol	ND	340
bis(2-Chloroethyl)ether	ND	340
2-Chlorophenol	ND	340
1,3-Dichlorobenzene	ND	340
1,4-Dichlorobenzene	ND	340
Benzyl alcohol	ND	340
1,2-Dichlorobenzene	ND	340
2-Methylphenol	ND	340
bis(2-Chloroisopropyl) ether	ND	340
4-Methylphenol	ND	340
N-Nitroso-di-n-propylamine	ND	340
Hexachloroethane	ND	340
Nitrobenzene	ND	340
Isophorone	ND	340
2-Nitrophenol	ND	670
2,4-Dimethylphenol	ND	340
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	340
2,4-Dichlorophenol	ND	340
1,2,4-Trichlorobenzene	ND	340
Naphthalene	150	67
4-Chloroaniline	ND	340
Hexachlorobutadiene	ND	340
4-Chloro-3-methylphenol	ND	340
2-Methylnaphthalene	ND	67
Hexachlorocyclopentadiene	ND	670
2,4,6-Trichlorophenol	ND	340
2,4,5-Trichlorophenol	ND	340
2-Chloronaphthalene	ND	340
2-Nitroaniline	ND	670
Dimethylphthalate	ND	340
Acenaphthylene	ND	67
2,6-Dinitrotoluene	ND	340
3-Nitroaniline	ND	670
Acenaphthene	ND	67
2,4-Dinitrophenol	ND	670
4-Nitrophenol	ND	670
Dibenzofuran	ND	340
2,4-Dinitrotoluene	ND	340
Diethylphthalate	ND	340
Fluorene	ND	67
4-Chlorophenyl-phenylether	ND	340
4-Nitroaniline	ND	670
4,6-Dinitro-2-methylphenol	ND	670
N-Nitrosodiphenylamine	ND	340
Azobenzene	ND	340
4-Bromophenyl-phenylether	ND	340
Hexachlorobenzene	ND	340
Pentachlorophenol	ND	670
Phenanthrene	ND	67
Anthracene	ND	67
Di-n-butylphthalate	ND	340

ND= Not Detected  
 RL= Reporting Limit



Semivolatile Organics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-25-7.5	Batch#: 172878
Lab ID:	226688-002	Sampled: 03/16/11
Matrix:	Soil	Received: 03/16/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/18/11
Diln Fac:	1.000	

Analyte	Result	RL
Fluoranthene	ND	67
Pyrene	74	67
Butylbenzylphthalate	ND	340
3,3'-Dichlorobenzidine	ND	670
Benzo(a)anthracene	ND	67
Chrysene	ND	67
bis(2-Ethylhexyl)phthalate	ND	340
Di-n-octylphthalate	ND	340
Benzo(b)fluoranthene	ND	67
Benzo(k)fluoranthene	ND	67
Benzo(a)pyrene	ND	67
Indeno(1,2,3-cd)pyrene	ND	67
Dibenz(a,h)anthracene	ND	67
Benzo(g,h,i)perylene	ND	67

Surrogate	%REC	Limits
2-Fluorophenol	82	35-120
Phenol-d5	84	33-120
2,4,6-Tribromophenol	77	30-120
Nitrobenzene-d5	72	43-120
2-Fluorobiphenyl	75	47-120
Terphenyl-d14	91	40-120

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584221	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
Fluoranthene	ND	66

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Semivolatile Organics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584221	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

Analyte	Result	RL
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	93	35-120
Phenol-d5	94	33-120
2,4,6-Tribromophenol	69	30-120
Nitrobenzene-d5	70	43-120
2-Fluorobiphenyl	83	47-120
Terphenyl-d14	78	40-120

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584222	Batch#: 172878
Matrix:	Soil	Prepared: 03/17/11
Units:	ug/Kg	Analyzed: 03/17/11

<b>Analyte</b>	<b>Spiked</b>	<b>Result</b>	<b>%REC</b>	<b>Limits</b>
Phenol	2,665	2,184	82	39-120
2-Chlorophenol	2,665	2,258	85	44-120
1,4-Dichlorobenzene	2,665	2,091	78	46-120
N-Nitroso-di-n-propylamine	2,665	2,209	83	33-120
1,2,4-Trichlorobenzene	2,665	2,200	83	48-120
4-Chloro-3-methylphenol	2,665	2,099	79	47-120
Acenaphthene	999.3	812.8	81	47-120
4-Nitrophenol	2,665	1,947	73	35-120
2,4-Dinitrotoluene	2,665	2,152	81	46-120
Pentachlorophenol	2,665	2,104	79	25-120
Pyrene	999.3	791.9	79	45-120

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
2-Fluorophenol	84	35-120
Phenol-d5	85	33-120
2,4,6-Tribromophenol	86	30-120
Nitrobenzene-d5	68	43-120
2-Fluorobiphenyl	72	47-120
Terphenyl-d14	68	40-120

**Batch QC Report**

Semivolatile Organics by GC/MS		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#: 172878
MSS Lab ID:	226568-028	Sampled: 03/09/11
Matrix:	Soil	Received: 03/11/11
Units:	ug/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/17/11
Diln Fac:	1.000	

Type: MS Lab ID: QC584223

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<14.82	2,649	2,087	79	41-120
2-Chlorophenol	<13.77	2,649	2,137	81	44-120
1,4-Dichlorobenzene	<7.231	2,649	1,923	73	46-120
N-Nitroso-di-n-propylamine	<15.00	2,649	2,123	80	36-120
1,2,4-Trichlorobenzene	<8.374	2,649	2,035	77	48-120
4-Chloro-3-methylphenol	<8.558	2,649	2,007	76	47-120
Acenaphthene	<6.608	993.4	779.0	78	45-120
4-Nitrophenol	<6.996	2,649	1,951	74	35-120
2,4-Dinitrotoluene	<8.230	2,649	2,130	80	44-120
Pentachlorophenol	<101.3	2,649	1,659	63	19-120
Pyrene	<7.224	993.4	777.8	78	41-120

Surrogate	%REC	Limits
2-Fluorophenol	76	35-120
Phenol-d5	80	33-120
2,4,6-Tribromophenol	77	30-120
Nitrobenzene-d5	63	43-120
2-Fluorobiphenyl	68	47-120
Terphenyl-d14	67	40-120

Type: MSD Lab ID: QC584224

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,642	2,170	82	41-120	4	45
2-Chlorophenol	2,642	1,934	73	44-120	10	44
1,4-Dichlorobenzene	2,642	1,632	62	46-120	16	41
N-Nitroso-di-n-propylamine	2,642	2,418	92	36-120	13	50
1,2,4-Trichlorobenzene	2,642	1,566	59	48-120	26	39
4-Chloro-3-methylphenol	2,642	1,796	68	47-120	11	40
Acenaphthene	990.8	682.8	69	45-120	13	39
4-Nitrophenol	2,642	1,685	64	35-120	14	57
2,4-Dinitrotoluene	2,642	1,847	70	44-120	14	42
Pentachlorophenol	2,642	1,543	58	19-120	7	66
Pyrene	990.8	668.6	67	41-120	15	52

Surrogate	%REC	Limits
2-Fluorophenol	81	35-120
Phenol-d5	87	33-120
2,4,6-Tribromophenol	70	30-120
Nitrobenzene-d5	55	43-120
2-Fluorobiphenyl	61	47-120
Terphenyl-d14	58	40-120

RPD= Relative Percent Difference

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-25-2.5	Basis:	as received
Lab ID:	226688-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	10	0.50	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	7.8	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	190	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.44	0.10	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.71	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	36	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	13	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	89	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	150	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.52	0.020	172984	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	1.4	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	43	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	0.33	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	240	1.0	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-25-7.5	Basis:	as received
Lab ID:	226688-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	7.9	0.50	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	7.1	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	250	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.42	0.10	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	1.3	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	35	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	14	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	120	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	130	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.37	0.020	172984	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	0.87	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	41	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	35	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	300	1.0	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-25-12.5	Basis:	as received
Lab ID:	226688-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.7	0.50	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	4.5	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	200	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.33	0.10	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.96	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	7.1	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	360	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	310	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.11	0.020	172984	03/21/11	03/21/11	METHOD	EPA 7471A
Molybdenum	1.2	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	30	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	0.58	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	0.78	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	27	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	340	1.0	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-16-2.5	Basis:	as received
Lab ID:	226688-009	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	10	0.50	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	15	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	280	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.36	0.10	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	1.2	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	44	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	13	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	190	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	230	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	1.6	0.21	10.00		173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	2.8	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	49	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	0.44	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	35	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	420	1.0	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-16-7.5	Basis:	as received
Lab ID:	226688-010	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.1	0.50	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.7	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	190	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.49	0.10	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.44	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	42	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	14	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	56	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	48	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	1.0	0.094	5.000		173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.74	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	41	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	39	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	120	1.0	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-16-12.5	Basis:	as received
Lab ID:	226688-011	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	7.1	0.50	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	9.8	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	110	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.46	0.10	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	31	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	11	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	180	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	6.6	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.11	0.020	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.76	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	42	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	34	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	46	1.0	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-17-2.5	Basis:	as received
Lab ID:	226688-012	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	12	0.50	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	27	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	320	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.36	0.10	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	4.7	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	40	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	9.7	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	550	2.2	10.00		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	430	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	5.2	0.22	10.00		173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.80	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	38	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	1.5	0.50	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Silver	0.46	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	30	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	630	8.9	10.00		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-17-6.0	Basis:	as received
Lab ID:	226688-013	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	4.4	0.50	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.2	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	130	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.42	0.10	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	42	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	17	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	19	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	6.4	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.041	0.021	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.47	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	36	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	37	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	32	1.0	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-17-12.5	Basis:	as received
Lab ID:	226688-014	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	0.50	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	2.4	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	29	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.15	0.10	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	9.3	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	2.2	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	12	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	19	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.13	0.020	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.35	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	13	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	1.4	0.50	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	11	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	25	1.0	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-32-2.5	Basis:	as received
Lab ID:	226688-020	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.3	0.50	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	2.3	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	130	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.25	0.10	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	1.3	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	35	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	6.8	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	120	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	110	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	2.5	0.10	5.000		173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	2.1	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	32	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	28	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	210	1.0	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-32-7.5	Basis:	as received
Lab ID:	226688-021	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.1	0.50	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	6.5	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	760	2.2	10.00		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Beryllium	0.40	0.10	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	1.7	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	8.8	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	60	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	800	2.2	10.00		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.79	0.020	1.000		173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	1.1	0.25	1.000		172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Nickel	32	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	40	0.25	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	340	1.0	1.000		172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-32-11.0	Basis:	as received
Lab ID:	226688-022	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.7	0.50	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.1	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	180	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.41	0.10	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	80	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Cobalt	12	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Copper	18	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Lead	16	0.25	172904	03/17/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.22	0.020	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.55	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	31	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Thallium	0.96	0.50	172904	03/17/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	51	1.0	172904	03/17/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-27-2.5	Basis:	as received
Lab ID:	226688-023	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.8	0.50	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	1.8	0.25	1.000		172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	170	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.63	0.10	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	140	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	4.2	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	33	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	9.9	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	1.4	0.10	5.000		173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.55	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	16	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	17	0.25	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	44	1.0	1.000		172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-27-7.5	Basis:	as received
Lab ID:	226688-024	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.8	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	3.6	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	190	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.50	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	53	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	16	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	23	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	91	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.25	0.020	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.91	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	110	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	40	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	71	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-27-12.5	Basis:	as received
Lab ID:	226688-025	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.1	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	4.5	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	120	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.33	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	35	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	8.1	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	21	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	11	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.14	0.020	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	1.2	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	36	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	34	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	44	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-24-1.5	Basis:	as received
Lab ID:	226688-026	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	9.2	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	6.8	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	200	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.66	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	0.38	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	21	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	11	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	49	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	64	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.72	0.020	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	1.5	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	29	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	29	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	130	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-24-5.5	Basis:	as received
Lab ID:	226688-027	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.7	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	8.9	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	180	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.28	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	1.4	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	41	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	6.9	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	29	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	39	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.24	0.020	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	1.1	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	33	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	27	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	110	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226688	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-24-12.0	Basis:	as received
Lab ID:	226688-028	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/16/11
Units:	mg/Kg	Received:	03/16/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.0	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Arsenic	1.4	0.25	172905	03/17/11	03/27/11	EPA 3050B	EPA 6010B
Barium	28	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Beryllium	0.22	0.10	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Chromium	10	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Cobalt	2.4	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Copper	5.4	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Lead	21	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Mercury	0.42	0.020	173016	03/22/11	03/22/11	METHOD	EPA 7471A
Molybdenum	0.34	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Nickel	6.9	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Vanadium	8.0	0.25	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B
Zinc	31	1.0	172905	03/17/11	03/26/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

California Title 22 Metals			
Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	241.082.02.001	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584329	Batch#:	172904
Matrix:	Soil	Prepared:	03/17/11
Units:	mg/Kg		

Analyte	Result	RL	Analyzed
Antimony	ND	0.50	03/27/11
Arsenic	ND	0.25	03/27/11
Barium	ND	0.25	03/27/11
Beryllium	ND	0.10	03/27/11
Cadmium	ND	0.25	03/27/11
Chromium	ND	0.25	03/28/11
Cobalt	ND	0.25	03/28/11
Copper	ND	0.25	03/28/11
Lead	ND	0.25	03/29/11
Molybdenum	ND	0.25	03/27/11
Nickel	ND	0.25	03/27/11
Selenium	ND	0.50	03/28/11
Silver	ND	0.25	03/28/11
Thallium	ND	0.50	03/28/11
Vanadium	ND	0.25	03/27/11
Zinc	ND	1.0	03/27/11

ND= Not Detected

RL= Reporting Limit



**Batch QC Report**

California Title 22 Metals		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Matrix:	Soil	Batch#: 172904
Units:	mg/Kg	Prepared: 03/17/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584330

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	100.0	102.5	102	80-120	03/27/11
Arsenic	50.00	53.80	108	80-120	03/27/11
Barium	100.0	100.5	100	80-120	03/27/11
Beryllium	2.500	2.627	105	80-120	03/27/11
Cadmium	10.00	10.43	104	80-120	03/27/11
Chromium	100.0	116.2	116	80-120	03/28/11
Cobalt	25.00	28.72	115	80-120	03/28/11
Copper	12.50	13.75	110	78-120	03/29/11
Lead	100.0	110.1	110	80-120	03/29/11
Molybdenum	20.00	20.37	102	80-120	03/27/11
Nickel	25.00	24.83	99	80-120	03/27/11
Selenium	50.00	58.26	117	80-120	03/28/11
Silver	10.00	11.19	112	80-120	03/28/11
Thallium	50.00	58.43	117	80-120	03/28/11
Vanadium	25.00	25.43	102	80-120	03/27/11
Zinc	25.00	25.55	102	80-120	03/27/11

Type: BSD Lab ID: QC584331

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	100.0	102.3	102	80-120	0	20	03/27/11
Arsenic	50.00	53.89	108	80-120	0	20	03/27/11
Barium	100.0	101.8	102	80-120	1	20	03/27/11
Beryllium	2.500	2.637	105	80-120	0	20	03/27/11
Cadmium	10.00	10.37	104	80-120	1	20	03/27/11
Chromium	100.0	114.2	114	80-120	2	20	03/28/11
Cobalt	25.00	28.52	114	80-120	1	20	03/28/11
Copper	12.50	13.16	105	78-120	4	20	03/29/11
Lead	100.0	106.6	107	80-120	3	20	03/29/11
Molybdenum	20.00	20.47	102	80-120	1	20	03/27/11
Nickel	25.00	24.67	99	80-120	1	20	03/27/11
Selenium	50.00	58.10	116	80-120	0	20	03/28/11
Silver	10.00	11.08	111	80-120	1	20	03/28/11
Thallium	50.00	58.17	116	80-120	0	20	03/28/11
Vanadium	25.00	25.36	101	80-120	0	20	03/27/11
Zinc	25.00	25.51	102	80-120	0	20	03/27/11

RPD= Relative Percent Difference

**Batch QC Report**

California Title 22 Metals		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Field ID:	SB-25-2.5	Batch#: 172904
MSS Lab ID:	226688-001	Sampled: 03/16/11
Matrix:	Soil	Received: 03/16/11
Units:	mg/Kg	Prepared: 03/17/11
Basis:	as received	

Type: MS Lab ID: QC584332

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln	Fac	Analyzed
Antimony	9.987	97.09	58.31	50	7-120	1.000		03/28/11
Arsenic	7.797	48.54	48.92	85	66-122	1.000		03/29/11
Barium	188.4	97.09	548.4	371 *	51-135	10.00		03/29/11
Beryllium	0.4407	2.427	2.831	98	73-120	1.000		03/28/11
Cadmium	0.7067	9.709	10.91	105	64-120	1.000		03/28/11
Chromium	35.65	97.09	140.8	108	57-122	1.000		03/28/11
Cobalt	12.82	24.27	34.00	87	53-122	1.000		03/28/11
Copper	88.65	12.14	143.5	452 NM	33-157	1.000		03/29/11
Lead	145.8	97.09	288.0	146 *	52-123	1.000		03/29/11
Molybdenum	1.383	19.42	18.10	86	66-120	1.000		03/29/11
Nickel	43.32	24.27	71.11	115	42-137	1.000		03/28/11
Selenium	0.2953	48.54	47.50	97	64-120	1.000		03/28/11
Silver	0.3323	9.709	9.588	95	65-120	1.000		03/29/11
Thallium	0.1729	48.54	46.53	95	55-120	1.000		03/29/11
Vanadium	36.15	24.27	65.31	120	49-139	1.000		03/28/11
Zinc	235.9	24.27	329.1	384 NM	32-155	1.000		03/29/11

Type: MSD Lab ID: QC584333

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln	Fac	Analyzed
Antimony	91.74	52.74	47	7-120	5	44	1.000		03/28/11
Arsenic	45.87	47.19	86	66-122	1	35	1.000		03/29/11
Barium	91.74	283.1	103	51-135	62 *	42	10.00		03/29/11
Beryllium	2.294	2.549	92	73-120	6	22	1.000		03/28/11
Cadmium	9.174	9.911	100	64-120	4	36	1.000		03/28/11
Chromium	91.74	124.5	97	57-122	8	34	1.000		03/28/11
Cobalt	22.94	31.18	80	53-122	5	32	1.000		03/28/11
Copper	11.47	106.3	154 NM	33-157	29	41	1.000		03/29/11
Lead	91.74	248.6	112	52-123	12	41	1.000		03/29/11
Molybdenum	18.35	17.86	90	66-120	4	20	1.000		03/29/11
Nickel	22.94	65.35	96	42-137	6	36	1.000		03/28/11
Selenium	45.87	44.32	96	64-120	1	28	1.000		03/28/11
Silver	9.174	9.068	95	65-120	0	27	1.000		03/29/11
Thallium	45.87	44.05	96	55-120	0	27	1.000		03/29/11
Vanadium	22.94	57.39	93	49-139	11	32	1.000		03/28/11
Zinc	22.94	264.5	125 NM	32-155	21	45	1.000		03/29/11

\*= Value outside of QC limits; see narrative

NM= Not Meaningful: Sample concentration > 4X spike concentration

RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584338	Batch#: 172905
Matrix:	Soil	Prepared: 03/17/11
Units:	mg/Kg	Analyzed: 03/18/11

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

California Title 22 Metals			
Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	241.082.02.001	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	172905
Units:	mg/Kg	Prepared:	03/17/11
Diln Fac:	1.000	Analyzed:	03/18/11

Type: BS Lab ID: QC584339

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	101.3	101	80-120
Arsenic	50.00	52.09	104	80-120
Barium	100.0	98.06	98	80-120
Beryllium	2.500	2.500	100	80-120
Cadmium	10.00	10.21	102	80-120
Chromium	100.0	97.21	97	80-120
Cobalt	25.00	24.08	96	80-120
Copper	12.50	12.61	101	78-120
Lead	100.0	95.85	96	80-120
Molybdenum	20.00	20.29	101	80-120
Nickel	25.00	24.29	97	80-120
Selenium	50.00	47.84	96	80-120
Silver	10.00	9.774	98	80-120
Thallium	50.00	48.96	98	80-120
Vanadium	25.00	24.65	99	80-120
Zinc	25.00	24.72	99	80-120

Type: BSD Lab ID: QC584340

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	94.48	94	80-120	7	20
Arsenic	50.00	47.91	96	80-120	8	20
Barium	100.0	90.79	91	80-120	8	20
Beryllium	2.500	2.321	93	80-120	7	20
Cadmium	10.00	9.492	95	80-120	7	20
Chromium	100.0	89.83	90	80-120	8	20
Cobalt	25.00	22.25	89	80-120	8	20
Copper	12.50	11.92	95	78-120	6	20
Lead	100.0	89.22	89	80-120	7	20
Molybdenum	20.00	19.03	95	80-120	6	20
Nickel	25.00	22.35	89	80-120	8	20
Selenium	50.00	44.31	89	80-120	8	20
Silver	10.00	9.032	90	80-120	8	20
Thallium	50.00	45.69	91	80-120	7	20
Vanadium	25.00	22.82	91	80-120	8	20
Zinc	25.00	23.03	92	80-120	7	20

RPD= Relative Percent Difference

**Batch QC Report**

California Title 22 Metals		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Field ID:	SB-13-2.5	Batch#: 172905
MSS Lab ID:	226637-021	Sampled: 03/15/11
Matrix:	Soil	Received: 03/15/11
Units:	mg/Kg	Prepared: 03/17/11
Basis:	as received	Analyzed: 03/18/11
Diln Fac:	1.000	

Type: MS Lab ID: QC584341

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	4.240	91.74	41.75	41	7-120
Arsenic	28.35	45.87	63.05	76	66-122
Barium	234.5	91.74	357.6	134	51-135
Beryllium	0.3233	2.294	2.457	93	73-120
Cadmium	0.9998	9.174	9.540	93	64-120
Chromium	33.58	91.74	116.1	90	57-122
Cobalt	9.389	22.94	29.02	86	53-122
Copper	189.7	11.47	257.9	595 NM	33-157
Lead	232.1	91.74	328.0	105	52-123
Molybdenum	1.133	18.35	16.55	84	66-120
Nickel	38.72	22.94	63.96	110	42-137
Selenium	<0.1393	45.87	39.01	85	64-120
Silver	0.2558	9.174	8.605	91	65-120
Thallium	<0.1553	45.87	37.11	81	55-120
Vanadium	32.52	22.94	55.75	101	49-139
Zinc	337.5	22.94	460.2 >LR	535 NM	32-155

Type: MSD Lab ID: QC584342

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	99.01	53.78	50	7-120	18	44
Arsenic	49.50	72.26	89	66-122	9	35
Barium	99.01	351.6	118	51-135	4	42
Beryllium	2.475	2.669	95	73-120	2	22
Cadmium	9.901	10.02	91	64-120	2	36
Chromium	99.01	125.9	93	57-122	3	34
Cobalt	24.75	30.66	86	53-122	0	32
Copper	12.38	178.5	-90 NM	33-157	37	41
Lead	99.01	372.5	142 *	52-123	10	41
Molybdenum	19.80	18.57	88	66-120	4	20
Nickel	24.75	62.47	96	42-137	5	36
Selenium	49.50	43.12	87	64-120	2	28
Silver	9.901	9.997	98	65-120	8	27
Thallium	49.50	41.72	84	55-120	4	27
Vanadium	24.75	56.50	97	49-139	2	32
Zinc	24.75	360.1	91 NM	32-155	NC	45

\*= Value outside of QC limits; see narrative  
 NC= Not Calculated  
 NM= Not Meaningful: Sample concentration > 4X spike concentration  
 >LR= Response exceeds instrument's linear range  
 RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals			
Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	172984
Lab ID:	QC584617	Prepared:	03/21/11
Matrix:	Soil	Analyzed:	03/21/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

California Title 22 Metals		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Batch#: 172984
Matrix:	Soil	Prepared: 03/21/11
Units:	mg/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584618	0.2500	0.2810	112	80-120		
BSD	QC584619	0.2500	0.2780	111	80-120	1	20

RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals			
Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	SB-25-2.5	Batch#:	172984
MSS Lab ID:	226688-001	Sampled:	03/16/11
Matrix:	Soil	Received:	03/16/11
Units:	mg/Kg	Prepared:	03/21/11
Basis:	as received	Analyzed:	03/21/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584620	0.5235	0.2551	0.8000	108	72-124		
MSD	QC584621		0.2660	0.9968	178 *	72-124	21	31

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



Batch QC Report

California Title 22 Metals			
Lab #:	226688	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	173016
Lab ID:	QC584745	Prepared:	03/22/11
Matrix:	Soil	Analyzed:	03/22/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

California Title 22 Metals		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Batch#: 173016
Matrix:	Soil	Prepared: 03/22/11
Units:	mg/Kg	Analyzed: 03/22/11
Diln Fac:	1.000	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584746	0.2500	0.2640	106	80-120		
BSD	QC584747	0.2500	0.2640	106	80-120	0	20

RPD= Relative Percent Difference

**Batch QC Report**

<b>California Title 22 Metals</b>		
Lab #:	226688	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Diln Fac: 1.000
Field ID:	SB-32-2.5	Batch#: 173016
MSS Lab ID:	226688-020	Sampled: 03/16/11
Matrix:	Soil	Received: 03/16/11
Units:	mg/Kg	Prepared: 03/22/11
Basis:	as received	Analyzed: 03/22/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584748	2.536	0.2500	1.330 >LR	-482 NM	72-124		
MSD	QC584749		0.2451	1.284 >LR	-511 NM	72-124	NC	31

NC= Not Calculated

NM= Not Meaningful: Sample concentration > 4X spike concentration

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.  
Analytical Laboratories, Since 1878



Laboratory Job Number 226712
ANALYTICAL REPORT

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

Project : 241.082.02.001
Location : 64th & Christie Emeryville, CA
Level : II

Table with 4 columns: Sample ID, Lab ID, Sample ID, Lab ID. Lists various sample and lab identifiers such as SB-20-1.5, 226712-001, SB-26-6.5, 226712-023, etc.

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

Desiree N. Tetrault

Signature: Project Manager

Date: 03/30/2011

## CASE NARRATIVE

Laboratory number: 226712  
Client: PES Environmental, Inc.  
Project: 241.082.02.001  
Location: 64th & Christie Emeryville, CA  
Request Date: 03/17/11  
Samples Received: 03/17/11

This data package contains sample and QC results for forty two soil samples, requested for the above referenced project on 03/17/11. The samples were received cold and intact.

### TPH-Purgeables and/or BTXE by GC (EPA 8015B):

High surrogate recoveries were observed for bromofluorobenzene (FID) in a number of samples. No other analytical problems were encountered.

### TPH-Extractables by GC (EPA 8015B):

Low recoveries were observed for diesel C10-C24 in the MS/MSD of SB-20-1.5 (lab # 226712-001); the LCS was within limits, and the associated RPD was within limits. Low recoveries were observed for diesel C10-C24 in the MS/MSD of SB-20-12.5 (lab # 226712-003); the LCS was within limits, and the associated RPD was within limits. Low surrogate recoveries were observed for o-terphenyl in SB-20-1.5 (lab # 226712-001) and the MS/MSD of SB-20-1.5 (lab # 226712-001) due to the matrix of the sample. Many samples were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

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

Matrix spikes were not performed for this analysis in batch 172973 due to insufficient sample amount. High recoveries were observed for 1,1-dichloroethene and trichloroethene in the MS/MSD for batch 173019; the parent sample was not a project sample, the BS/BSD were within limits, the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated sample. Low surrogate recoveries were observed for dibromofluoromethane in the MS/MSD for batch 173019; the parent sample was not a project sample. SB-35-8.5 (lab # 226712-005) was diluted due to high hydrocarbons. No other analytical problems were encountered.

### Semivolatile Organics by GC/MS (EPA 8270C):

SB-35-8.5 (lab # 226712-005) and SB-19-7.5 (lab # 226712-030) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

### Metals (EPA 6010B and EPA 7471A):

High recoveries were observed for a number of analytes in the MS/MSD of SB-20-1.5 (lab # 226712-001); the BS/BSD were within limits. High RPD was observed for arsenic, lead, and antimony; the RPD was acceptable in the BS/BSD. High recoveries were observed for nickel and vanadium in the MS/MSD of SB-23-12.5 (lab # 226712-021); the BS/BSD were within limits, and the

**CASE NARRATIVE**

Laboratory number: 226712  
Client: PES Environmental, Inc.  
Project: 241.082.02.001  
Location: 64th & Christie Emeryville, CA  
Request Date: 03/17/11  
Samples Received: 03/17/11

**Metals (EPA 6010B and EPA 7471A):**

associated RPDs were within limits. Low recovery was observed for mercury in the MSD of SB-20-1.5 (lab # 226712-001); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.









LABORATORY: C+T  
JOB NUMBER: 241.082.02.001  
NAME / LOCATION: 64th + Christie / Emeryville, CA  
PROJECT MANAGER: W. Mast

SAMPLERS: K. Simmons / J. Patterson  
RECORDER: K. Simmons

ANALYSIS REQUESTED	
EPA 5035/8010	
EPA 5035/8021	
EPA 5035/8260B-VOLs	X
TPHg by 8015M	X
TPHd by 8015M <u>3.5%</u>	X
TPHmo by 8015M	X
EPA 8270C - SVOCs	X
MNA Parameters (see notes)	
<u>122 metals - 6010D</u>	X
<u>PTX - 8260</u>	X

DATE	SAMPLE NUMBER / DESIGNATION		
		YR	MO
25	1103171255 SB-26-20.0		
26	1103171330 SB-22-2.5		
27	1103171335 SB-22-7.0		
28	1103171340 SB-22-12.5		
29	1103171430 SB-19-2.5		
30	1103171435 SB-19-7.5		
31	1103171440 SB-19-12.5		
32	1103171400 SB-28-1.5		
33	1103171410 <del>SB-28-7.5</del> ←		
34	1103171435 SB-28-12.5		
35	1103171445 SB-28-16.0		
36	1103171505 SB-28-20.0		

MATRIX	# of Containers & Preservatives								DEPTH IN FEET			
	Vapor	Water	Soil	Sediment	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>		HCl	Netvol	Water
			X		1						14	
											2	
											4	
											2	
											4	

4 [SB-28-7.5]

**NOTES**  
Turn Around Time: Standard JAT  
- please retain samples after analysis for possible future STC/TCLP  
\* Please **HOLD** sample SB-28-20.0

CHAIN OF CUSTODY RECORD			
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
<i>[Signature]</i>	<i>[Signature]</i>	2/17/04	17:30
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)
METHOD OF SHIPMENT:			

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COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 226712 Date Received 3/17/11 Number of coolers 3
Client PES Project GY# & CHRISTIE

Date Opened 3/17/11 By (print) M. VILLANUEVA (sign)
Date Logged in 3/18/11 By (print) R. Ponce (sign)

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

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

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

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

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

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

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

7. Temperature documentation:
Type of ice used: Wet Blue/Gel None Temp(C)
Samples Received on ice & cold without a temperature blank
Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer? 1850, PRES. ENCORES

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

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

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

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

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

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

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

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

COMMENTS
-019 rec'd 5 preserved encores and 1 jar.

**Desiree Tetrault**

---

**From:** "Chris Baldassari" <cbaldassari@pesenv.com>  
**To:** "Desiree Tetrault" <desiree.tetrault@ctberk.com>; "Ken Simmons" <KSimmons@pesenv.com>  
**Sent:** Monday, March 21, 2011 12:56 PM  
**Subject:** RE: 241.082 adjustments

Hi Desiree,

We don't need gravity separation for the sample, but would like silica-gel cleanup performed; please no reporting/analysis for without silica gel.

The digestion fee on analyses started already sounds fair to me; we just want to be clear on which ones shouldn't have metals reported (indicated in the COCs sent by Kenny)

Thanks,  
 Chris

---

**From:** Desiree Tetrault [mailto:desiree.tetrault@ctberk.com]  
**Sent:** Monday, March 21, 2011 12:52 PM  
**To:** Ken Simmons  
**Cc:** Chris Baldassari  
**Subject:** Re: 241.082 adjustments

Hey Ken and Chris- thanks for the update. There shouldn't be any problems changing the IDs and the requests for analyses, although for logins 226688 and 226712 we have already prepped the samples for the metals. I can remove the analyses that you listed, but will have to charge a \$10 digestion fee for the ones already started.

Could you confirm that you do or do not need gravity separation for the last water sample (226732-001) submitted on Friday? Also, do you need the results to be reported with and without silica gel cleanup?

Thank you and please feel free to call with any questions.

Desirée Tétrault  
 Project Manager  
 Curtis and Tompkins, Ltd  
 2323 Fifth Street  
 Berkeley CA 94710  
 510.204.2221  
[www.curtisandtomppkins.com](http://www.curtisandtomppkins.com)

----- Original Message -----

**From:** Ken Simmons  
**To:** [desiree.tetrault@ctberk.com](mailto:desiree.tetrault@ctberk.com)  
**Cc:** [Chris Baldassari](mailto:Chris Baldassari)  
**Sent:** Monday, March 21, 2011 10:58 AM  
**Subject:** 241.082 adjustments

Morning Desiree –

After reviewing the log-in sheets and COCs, there are a few adjustments to sample names and analysis that we would like to see.





# CHAIN OF CUSTODY RECORD

LABORATORY: C+T  
JOB NUMBER: 241.082.02.001  
NAME / LOCATION: 54<sup>m</sup> - Const / Linn - 10/10/01  
PROJECT MANAGER: W. West

SAMPLERS: E. Smith / J. ...  
RECORDER: R. ...

ANALYSIS REQUESTED	
EPA 5035/8010	
EPA 5035/8021	
EPA 5035/8260B - VOCs	
TPHg by 5035/8015M	
TPHd by 8015M	
TPHmo by 8015M	
EPA 8270C - SVOCs	
MNA Parameters (see notes)	
122 parameters - C0110	
8121 - 8260	

	DATE				SAMPLE NUMBER / DESIGNATION
	YR	MO	DAY	TIME	
25	11	03	17	1255	SB-26-20.0
26				1330	SB-22-2.5
27				1335	SB-22-7.0
28				1340	SB-22-12.5
29				1430	SB-14-2.5
30				1435	SB-14-7.5
31				1440	SB-14-12.5
32				1400	SB-28-1.5
33				1410	<del>SB-28-7.5</del>
34				1435	SB-28-12.5
35				1445	SB-28-16.0
36				1505	SB-25-20.0

MATRIX	# of Containers & Preservatives										DEPTH IN FEET	
	Vapor	Water	Soil	Sediment	Unpres.	EnCore	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	Other		Other
			X		1						14	
											2	
											4	
											2	
											4	

\* [SB-28-7.5]

NOTES	CHAIN OF CUSTODY RECORD			
Turn Around Time: <u>1 business day</u>	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
			2/7/02	17:00
please return samples after analysis if possible after 5:00/10:00 P	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
* Please HOLD sample SB-28-20.0	RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
	DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)
	METHOD OF SHIPMENT:			

226712

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Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID:	SB-20-1.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172985
Lab ID:	226712-001	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.21

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	67-140

Field ID:	SB-20-8.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172985
Lab ID:	226712-002	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	67-140

Field ID:	SB-20-12.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172985
Lab ID:	226712-003	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	120	67-140

Field ID:	SB-35-2.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172985
Lab ID:	226712-004	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	127	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-35-8.5 Diln Fac: 10.00  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-005 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	110 Y	10
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	158 *	67-140

Field ID: SB-35-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172985  
 Lab ID: 226712-006 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	3.3 Y	0.17
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	163 *	67-140

Field ID: SB-11-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-007 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.16
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	67-140

Field ID: SB-11-7.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-008 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-11-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-009 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	67-140

Field ID: SB-34-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-010 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	0.36 Y	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	130	67-140

Field ID: SB-34-8.5 Diln Fac: 25.00  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-011 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	50 Y	25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	67-140

Field ID: SB-34-10.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-012 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	11 Y	0.25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID:	SB-21-2.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172993
Lab ID:	226712-013	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

Field ID:	SB-21-8.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172993
Lab ID:	226712-014	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	67-140

Field ID:	SB-21-12.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172993
Lab ID:	226712-015	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	4.1 Y	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	77	67-140

Field ID:	SB-33-2.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172993
Lab ID:	226712-016	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-33-8.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-017 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	2.2 Y	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	148 *	67-140

Field ID: SB-33-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-018 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	67-140

Field ID: SB-23-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-019 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	0.51 Y	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	67-140

Field ID: SB-23-7.0 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-020 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-23-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-021 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	0.39 Y	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	67-140

Field ID: SB-26-1.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-022 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	4.3 Y	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	82	67-140

Field ID: SB-26-6.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-023 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	1.5 Y	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	67-140

Field ID: SB-26-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-024 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	5.2 Y	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	86	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-26-20.0 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-025 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	0.43 Y	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	67-140

Field ID: SB-22-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172993  
 Lab ID: 226712-026 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	67-140

Field ID: SB-22-7.0 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-027 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	1.2	0.23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	67-140

Field ID: SB-22-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-028 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	0.44	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit



Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID:	SB-19-2.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172998
Lab ID:	226712-029	Analyzed:	03/21/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Field ID:	SB-19-7.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172998
Lab ID:	226712-030	Analyzed:	03/21/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

Field ID:	SB-19-12.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172998
Lab ID:	226712-031	Analyzed:	03/22/11

Analyte	Result	RL
Gasoline C7-C12	1.4 Y	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	67-140

Field ID:	SB-28-1.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	172998
Lab ID:	226712-032	Analyzed:	03/21/11

Analyte	Result	RL
Gasoline C7-C12	0.34 Y	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-28-7.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-033 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.14

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	67-140

Field ID: SB-28-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-034 Analyzed: 03/21/11

Analyte	Result	RL
Gasoline C7-C12	3.2 Y	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	126	67-140

Field ID: SB-28-16.0 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-035 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Field ID: SB-18-2.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-037 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-18-7.0 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-038 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	67-140

Field ID: SB-18-12.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-039 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	1.4 Y	0.28

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	121	67-140

Field ID: SB-30-2.0 Diln Fac: 25.00  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-040 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	740 Y	25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Field ID: SB-30-8.5 Diln Fac: 20.00  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-041 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	680 Y	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	154 *	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-30-12.5 Diln Fac: 10.00  
 Type: SAMPLE Batch#: 173026  
 Lab ID: 226712-042 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	46 Y	10
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	67-140

Field ID: SB-30-15.5 Diln Fac: 1.000  
 Type: SAMPLE Batch#: 172998  
 Lab ID: 226712-043 Analyzed: 03/22/11

Analyte	Result	RL
Gasoline C7-C12	1.3 Y	0.17
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	135	67-140

Type: BLANK Batch#: 172985  
 Lab ID: QC584624 Analyzed: 03/21/11  
 Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.20
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	67-140

Type: BLANK Batch#: 172993  
 Lab ID: QC584655 Analyzed: 03/21/11  
 Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.20
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Type: BLANK Batch#: 172998  
 Lab ID: QC584677 Analyzed: 03/21/11  
 Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	67-140

Type: BLANK Batch#: 173026  
 Lab ID: QC584791 Analyzed: 03/22/11  
 Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	67-140

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172985
Units:	mg/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584622

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.019	102	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	67-140

Type: BSD Lab ID: QC584623

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	0.9892	99	79-121	3	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	67-140

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172993
Units:	mg/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584656

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.491	90	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	67-140

Type: BSD Lab ID: QC584657

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	5.000	4.658	93	79-121	4	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	67-140

RPD= Relative Percent Difference

## Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 172998
Units:	mg/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584675

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.057	106	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	67-140

Type: BSD Lab ID: QC584676

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.063	106	79-121	1	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	67-140

RPD= Relative Percent Difference



## Batch QC Report

Gasoline by GC/FID (5035 Prep)		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8015B
Matrix:	Soil	Batch#: 173026
Units:	mg/Kg	Analyzed: 03/22/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584789

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.090	109	79-121

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	67-140

Type: BSD Lab ID: QC584790

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.068	107	79-121	2	23

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	67-140

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)					
Lab #:	226712	Location:	64th & Christie Emeryville, CA		
Client:	PES Environmental, Inc.	Prep:	EPA 5030B		
Project#:	241.082.02.001	Analysis:	EPA 8015B		
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000		
MSS Lab ID:	226779-001	Batch#:	173026		
Matrix:	Soil	Sampled:	03/22/11		
Units:	mg/Kg	Received:	03/22/11		
Basis:	as received	Analyzed:	03/22/11		

Type: MS Lab ID: QC584792

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.06573	10.87	8.713	80	41-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	67-140

Type: MSD Lab ID: QC584793

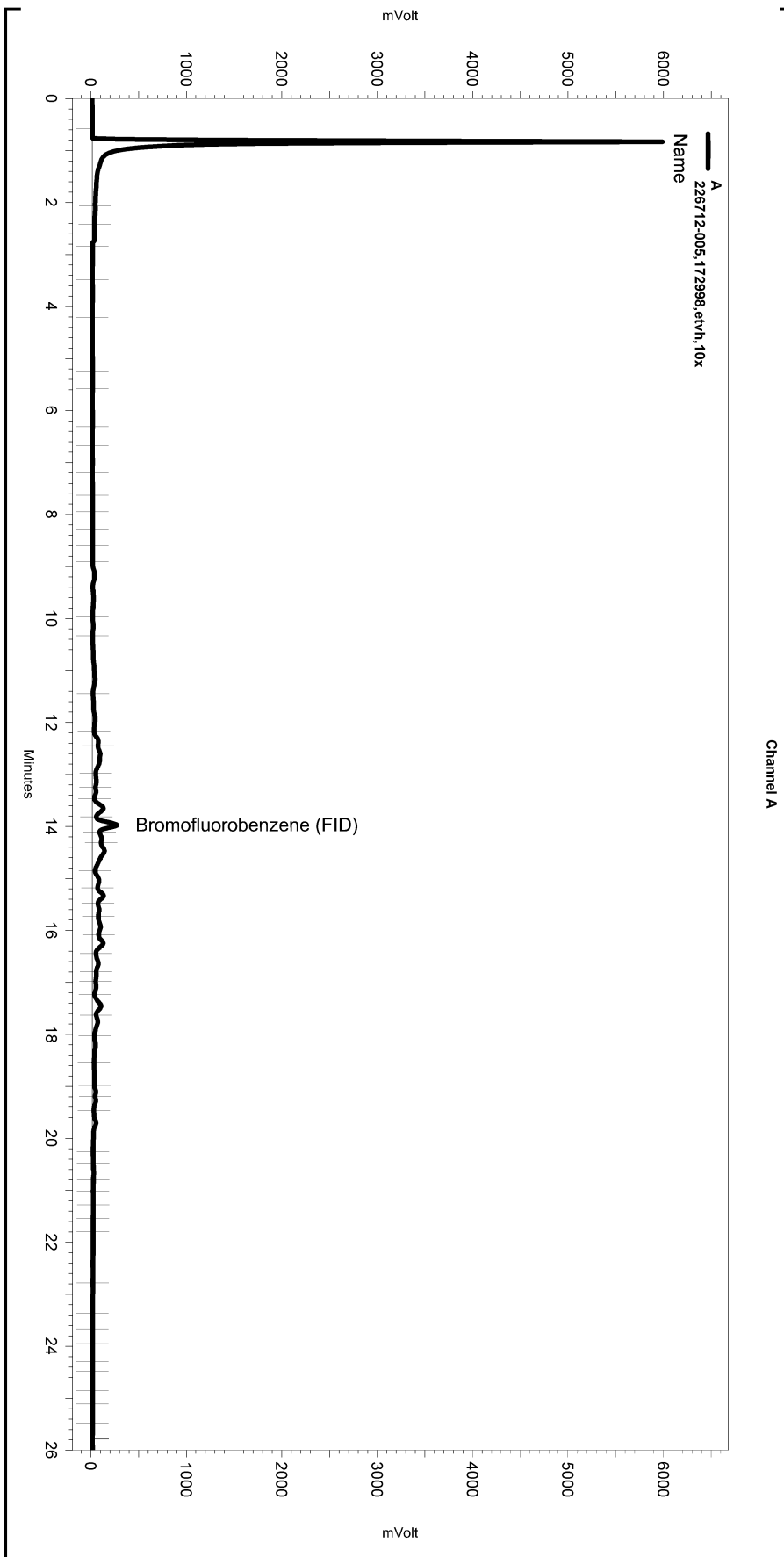
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Gasoline C7-C12	10.53	8.924	84	41-120	6	47

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	67-140

RPD= Relative Percent Difference

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 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\lvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 1:55:24 PM  
 Analysis Date: 3/23/2011 2:46:43 PM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: e,dc275



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Integration Events

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Yes	Threshold	0	0	50

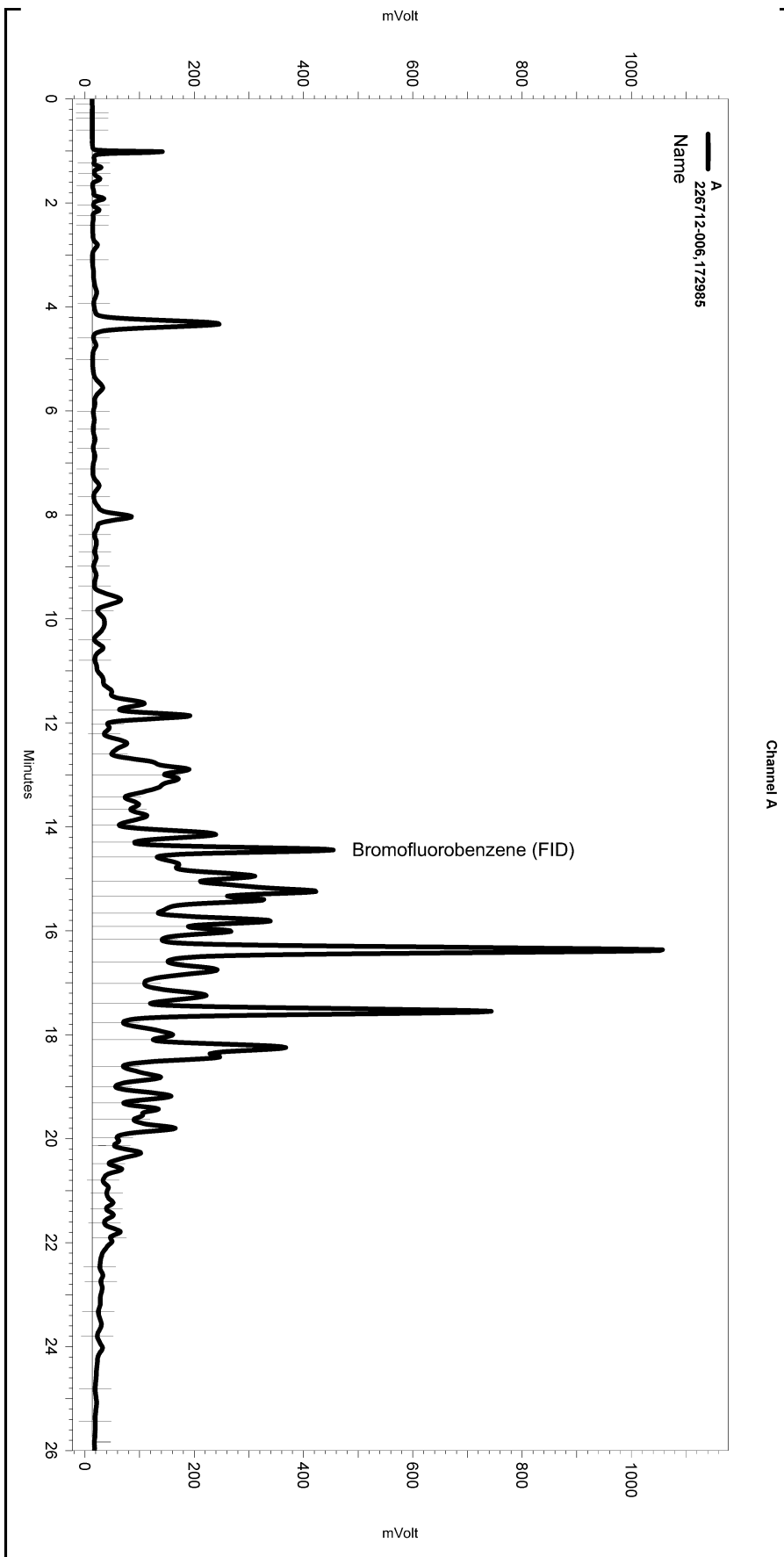
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-031

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.58	25.354	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: 226712-006,172985  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-027  
 Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\TVHBTX061.met

Software Version 3.1.7  
 Run Date: 3/22/2011 5:13:18 AM  
 Analysis Date: 3/22/2011 5:43:10 PM  
 Sample Amount: 5.99 Multiplier: 5.99  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

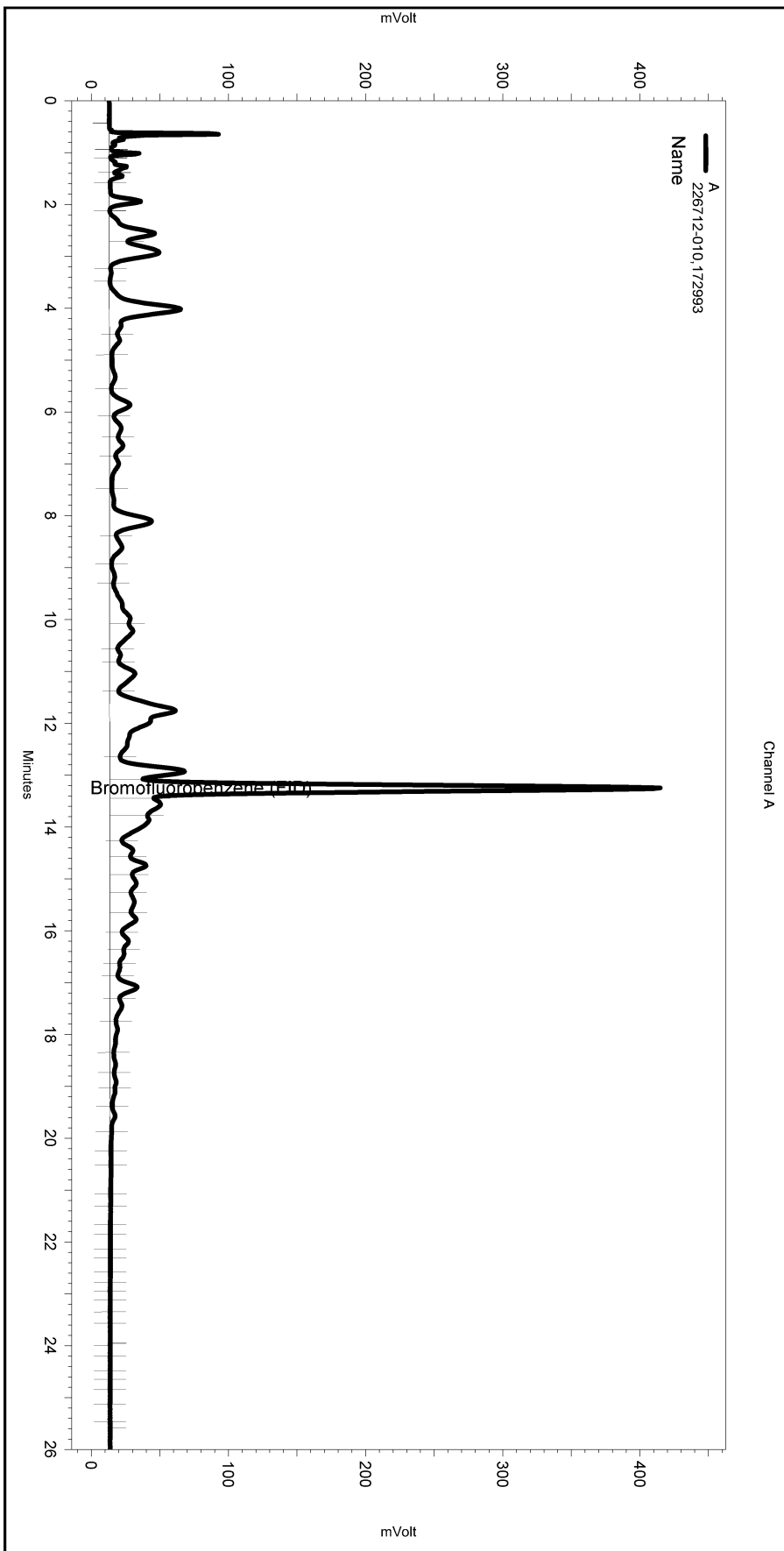
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-027

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.048	25.75	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence080.seq  
 Sample Name: 226712-010,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-011  
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/21/2011 8:06:38 PM  
 Analysis Date: 3/21/2011 8:35:21 PM  
 Sample Amount: 6.84 Multiplier: 6.84  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

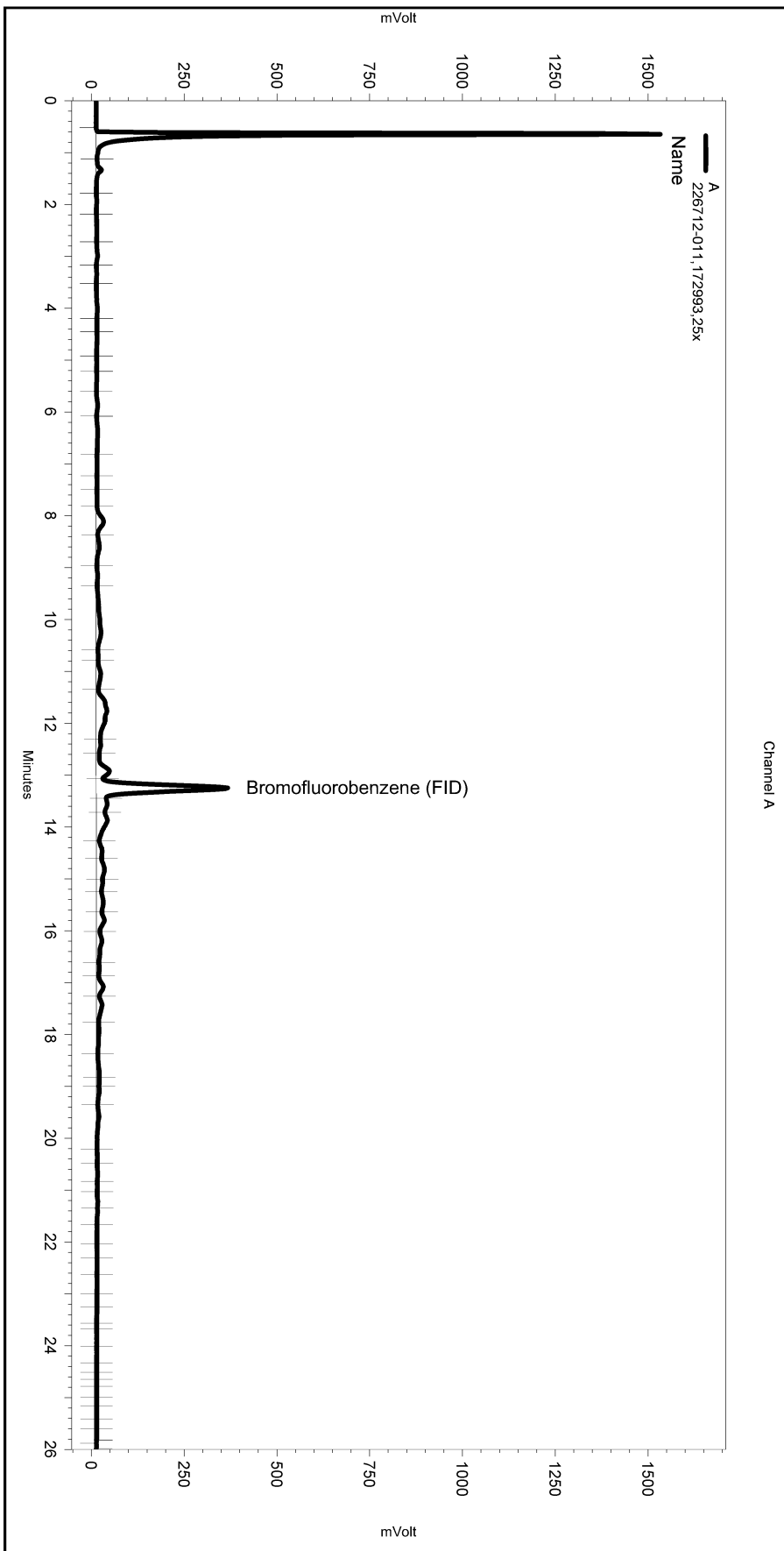
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10048\080-011\_D41E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\080.seq  
 Sample Name: 226712-011,172993,25x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-012  
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/21/2011 8:43:15 PM  
 Analysis Date: 3/21/2011 9:11:58 PM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: c



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

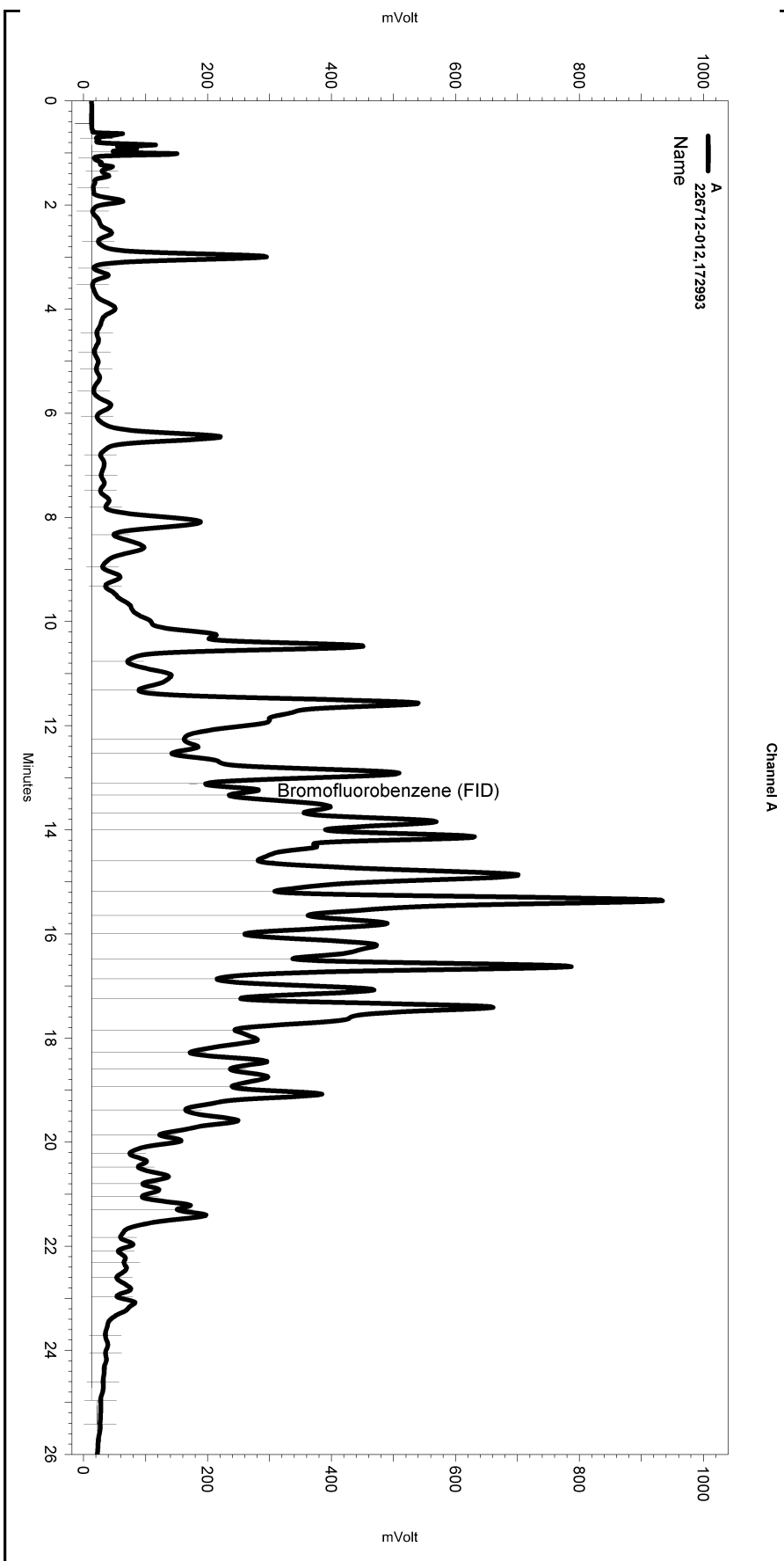
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10048\080-012\_D41F.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\080.seq  
 Sample Name: 226712-012,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-014  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTXE068.met

Software Version 3.1.7  
 Run Date: 3/21/2011 9:56:29 PM  
 Analysis Date: 3/22/2011 10:22:48 AM  
 Sample Amount: 4 Multiplier: 4  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

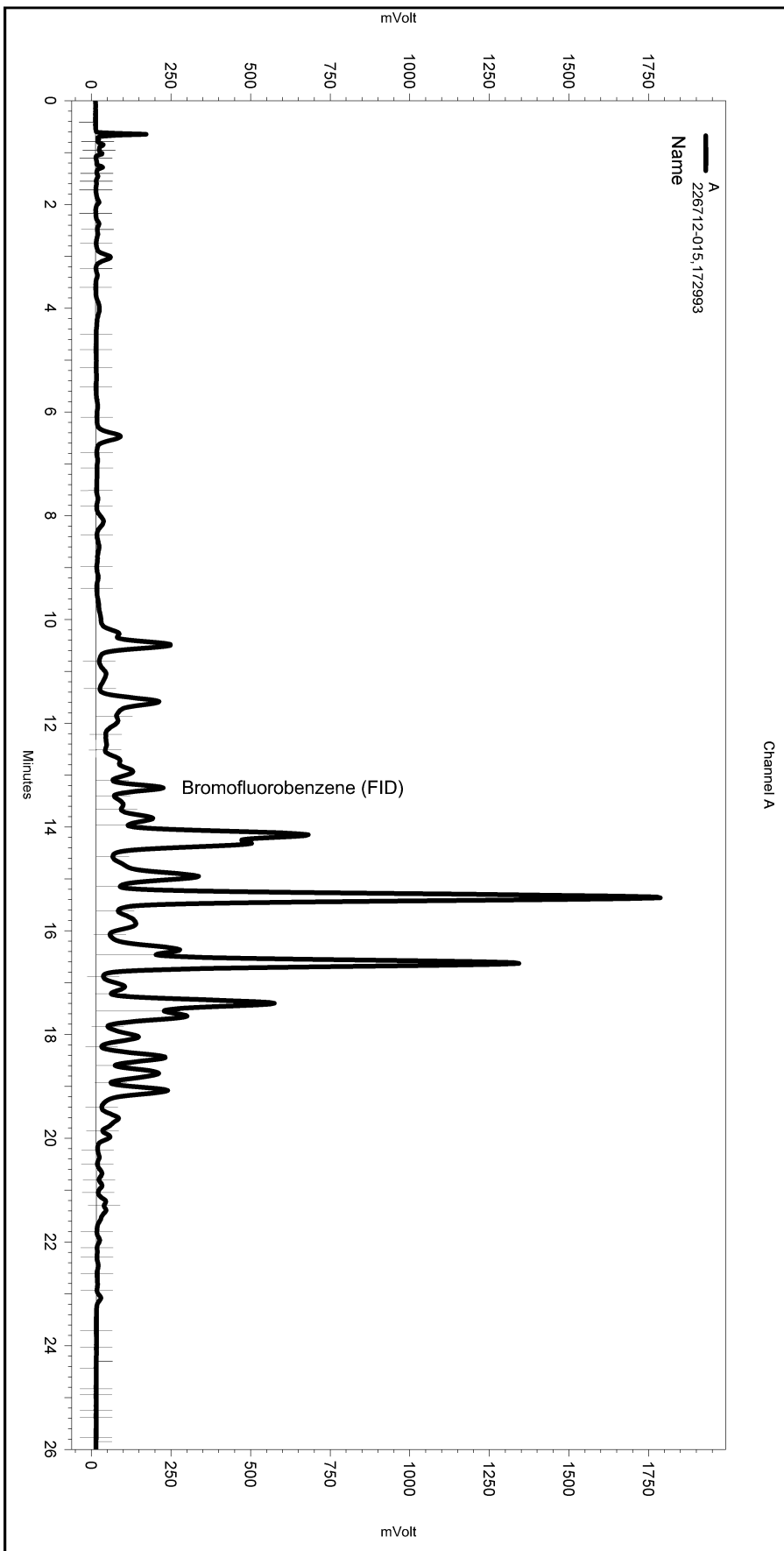
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.323	24.97	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence080.seq  
 Sample Name: 226712-015,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-035  
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 1:29:13 PM  
 Analysis Date: 3/22/2011 1:57:54 PM  
 Sample Amount: 5.12 Multiplier: 5.12  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

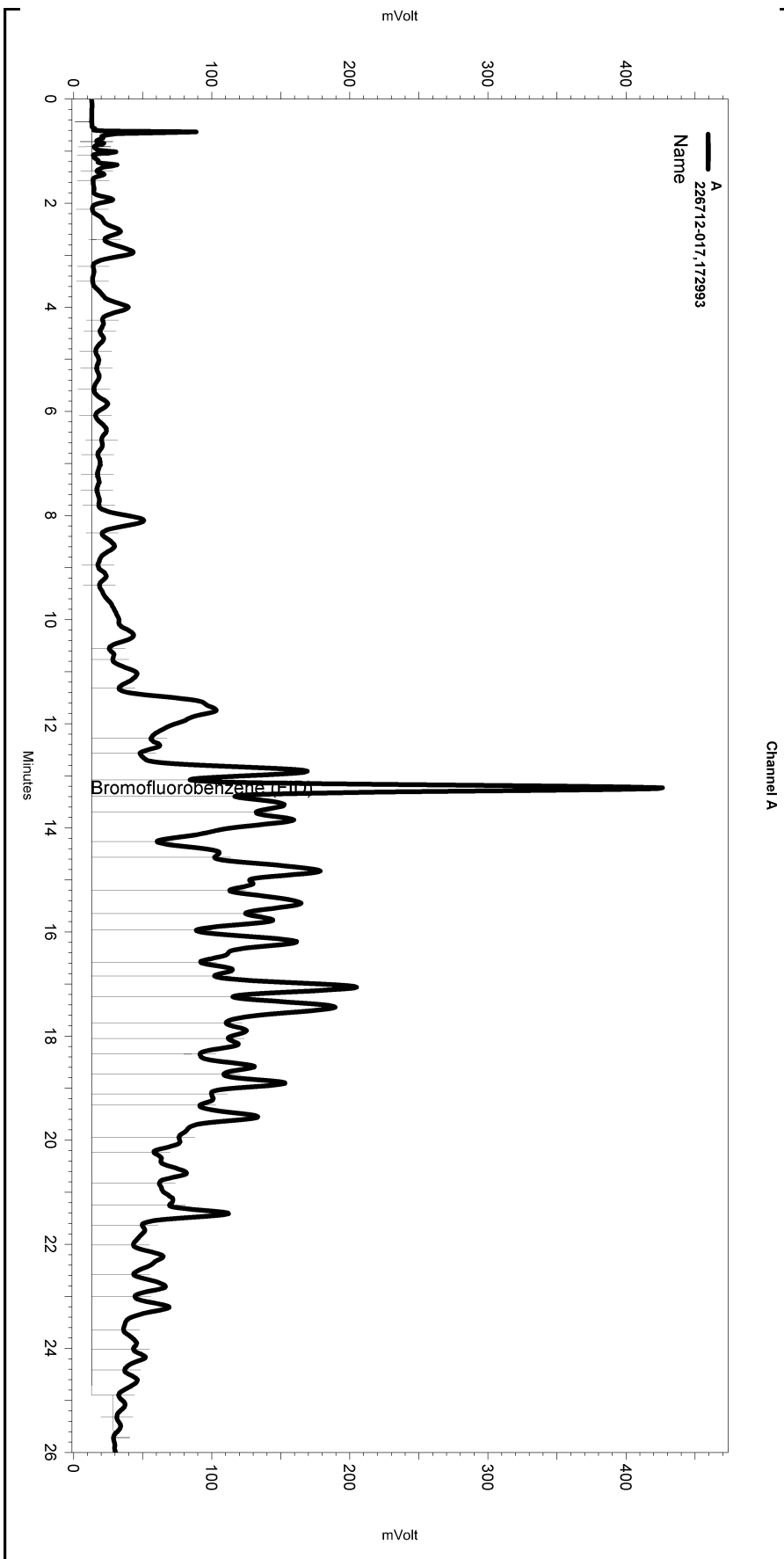
Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10048\080-035\_D437.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence080.seq  
 Sample Name: 226712-017,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-021  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTXE068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 2:12:32 AM  
 Analysis Date: 3/22/2011 10:25:00 AM  
 Sample Amount: 5.96 Multiplier: 5.96  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

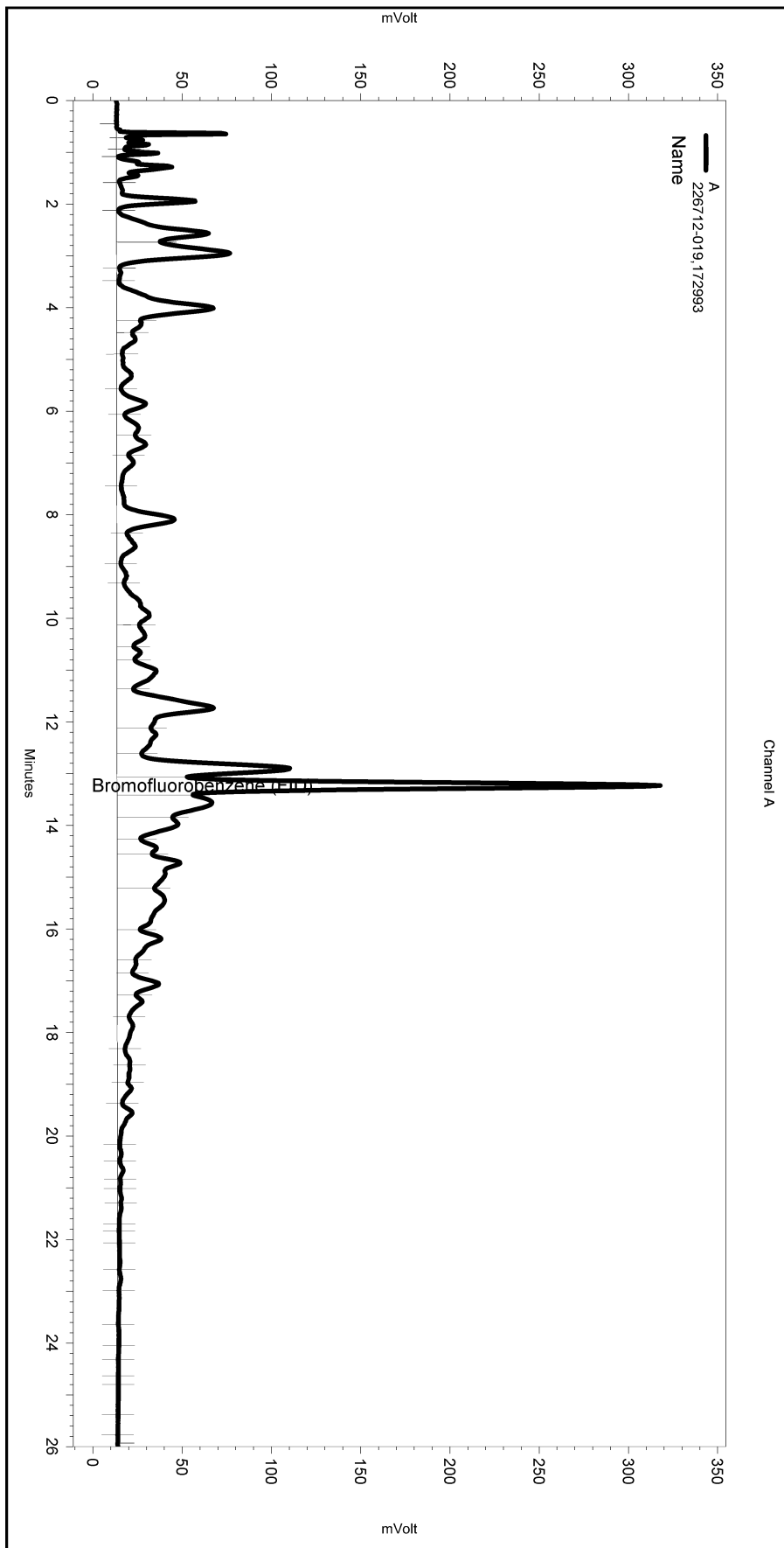
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.365	25.054	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\080.seq  
 Sample Name: 226712-019,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-023  
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 3:25:40 AM  
 Analysis Date: 3/22/2011 3:54:23 AM  
 Sample Amount: 6.59 Multiplier: 6.59  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

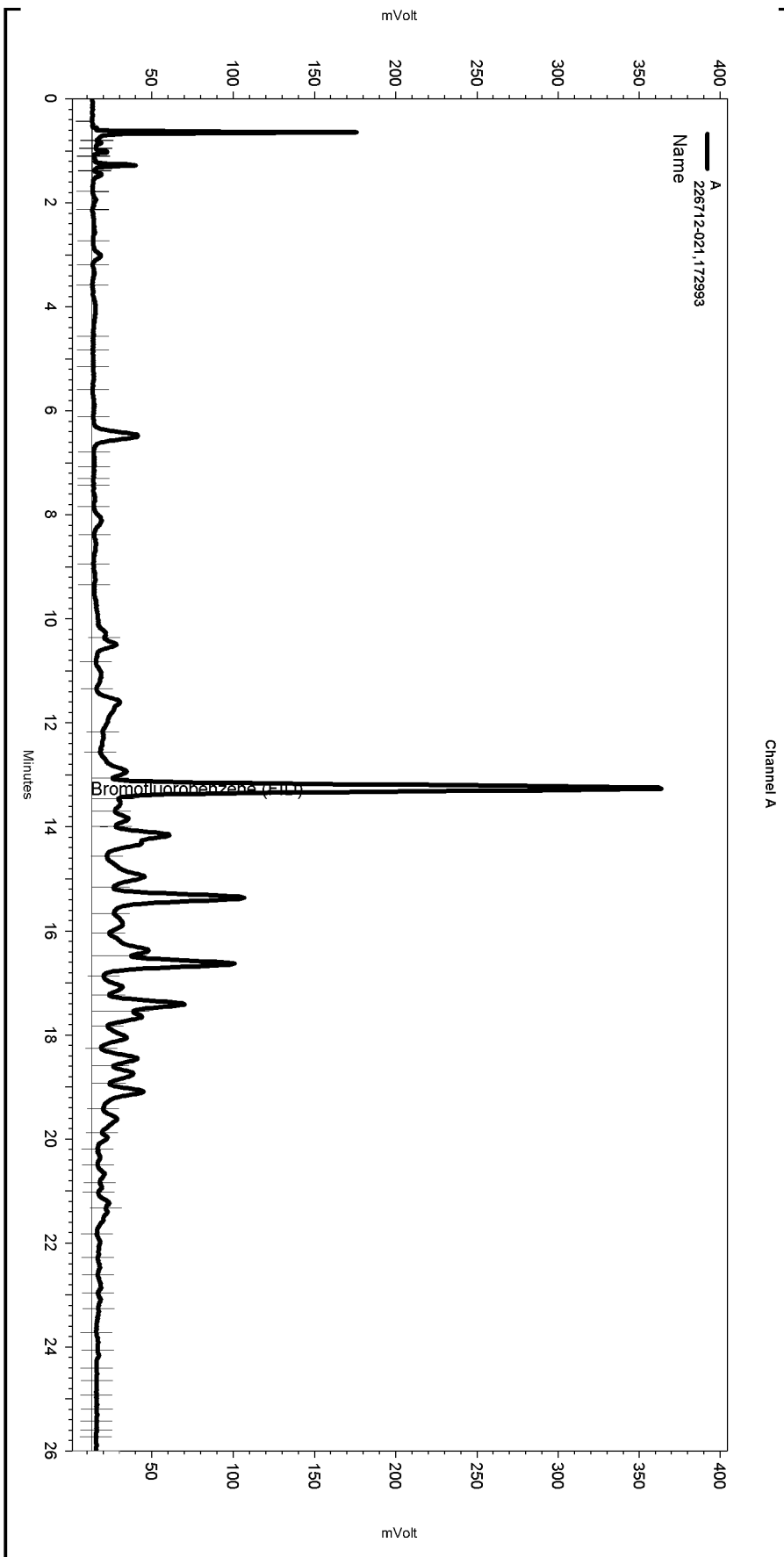
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\080-023\_D42A.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\080.seq  
 Sample Name: 226712-021,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-036  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTXE068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 2:08:51 PM  
 Analysis Date: 3/22/2011 5:42:53 PM  
 Sample Amount: 6.47 Multiplier: 6.47  
 Vial & pH or Core ID: a



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

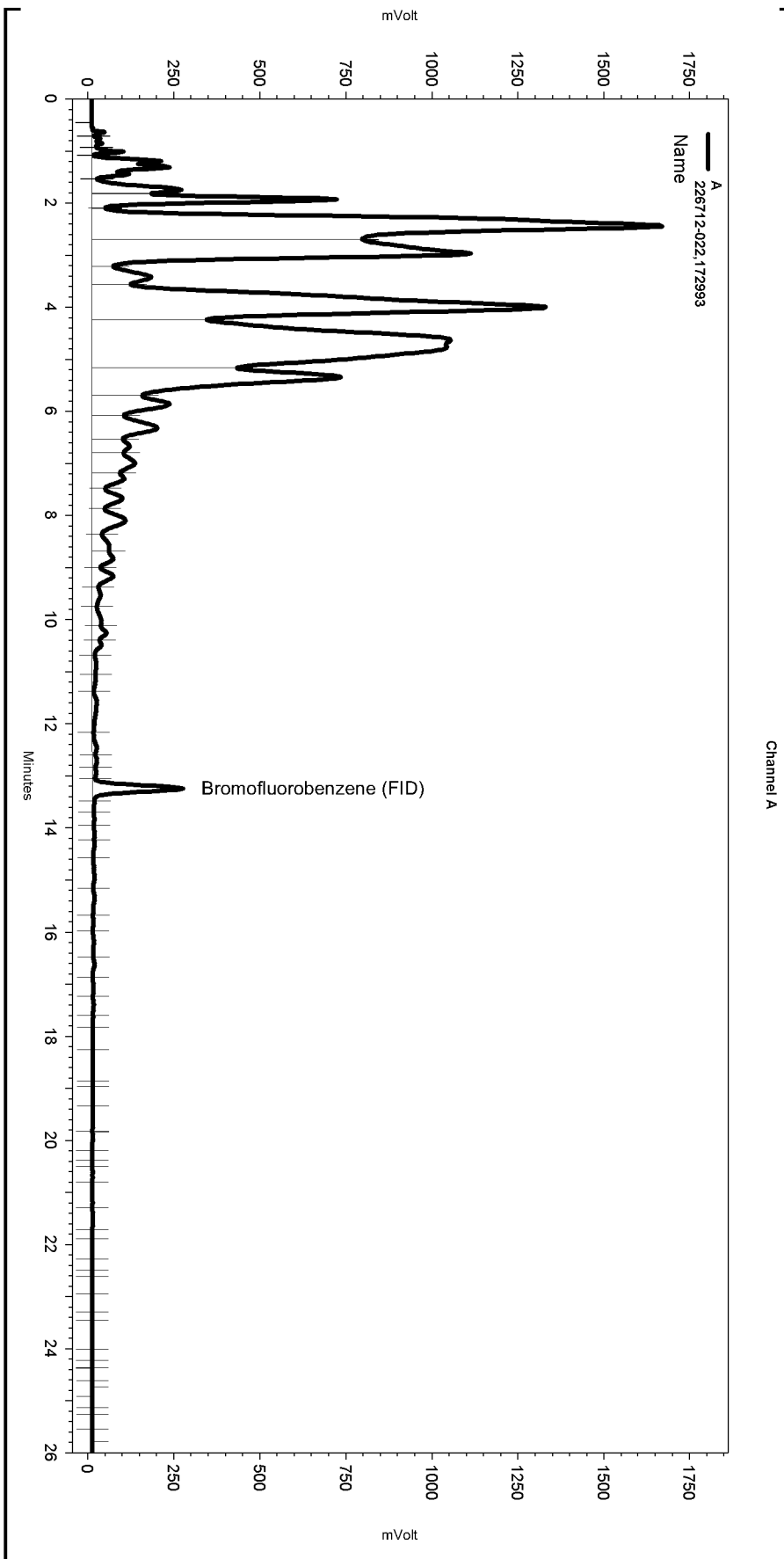
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-036

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.016	26.007	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\080.seq  
 Sample Name: 226712-022,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-026  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 5:15:18 AM  
 Analysis Date: 3/22/2011 5:38:49 PM  
 Sample Amount: 5.83 Multiplier: 5.83  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

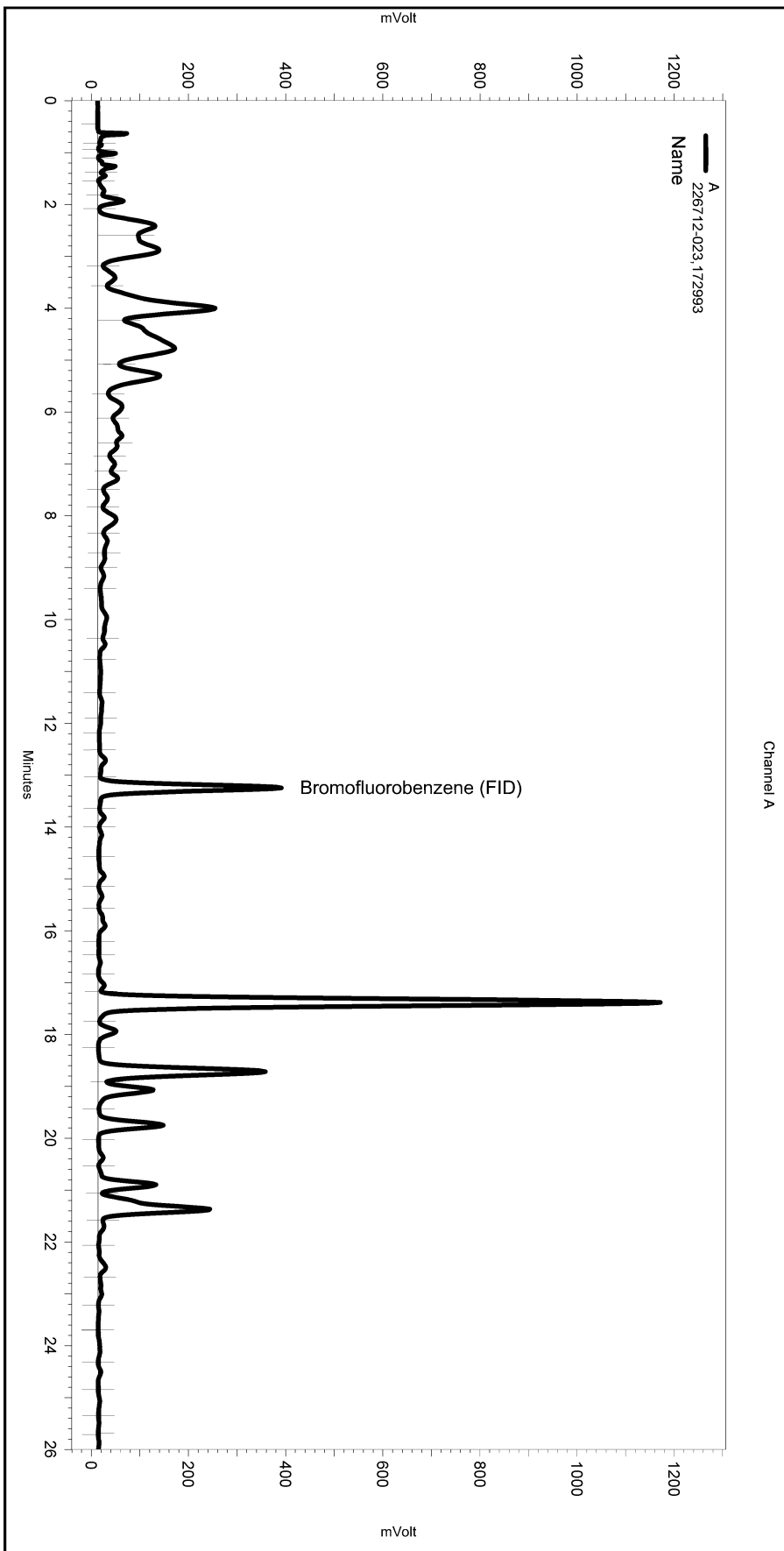
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-026

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	13.482	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\080.seq  
 Sample Name: 226712-023,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-027  
 Instrument: GC05 Vial: N/A Operator: lms2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 5:51:53 AM  
 Analysis Date: 3/22/2011 6:20:35 AM  
 Sample Amount: 5.9 Multiplier: 5.9  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

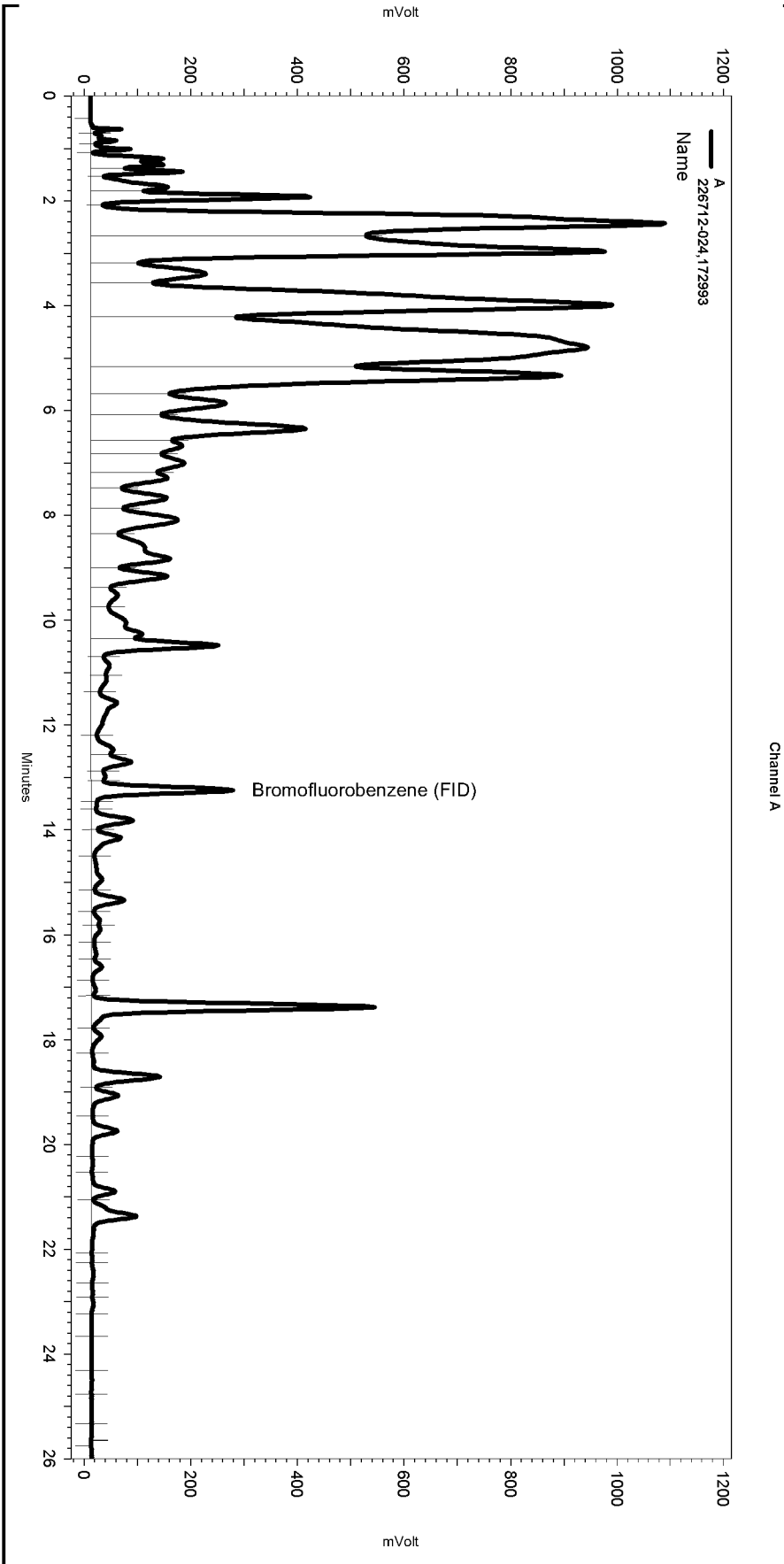
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10048\080-027\_D42E.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\080.seq  
 Sample Name: 226712-024,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-028  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTX068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 6:28:29 AM  
 Analysis Date: 3/22/2011 5:39:43 PM  
 Sample Amount: 5.7 Multiplier: 5.7  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

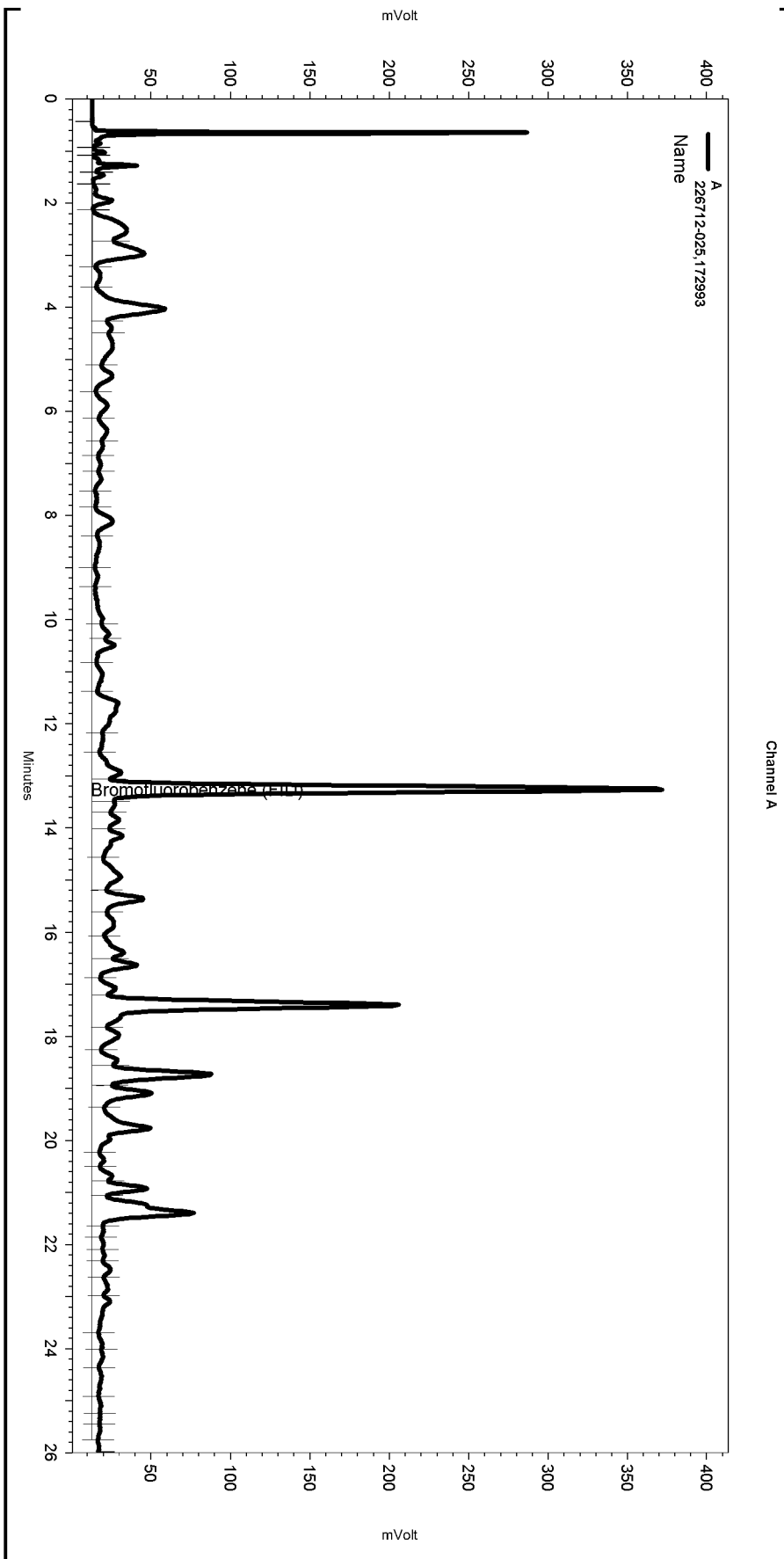
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-028

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	13.468	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\080.seq  
 Sample Name: 226712-025,172993  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-037  
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTX068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 2:45:27 PM  
 Analysis Date: 3/22/2011 5:43:20 PM  
 Sample Amount: 6.71 Multiplier: 6.71  
 Vial & pH or Core ID: c



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

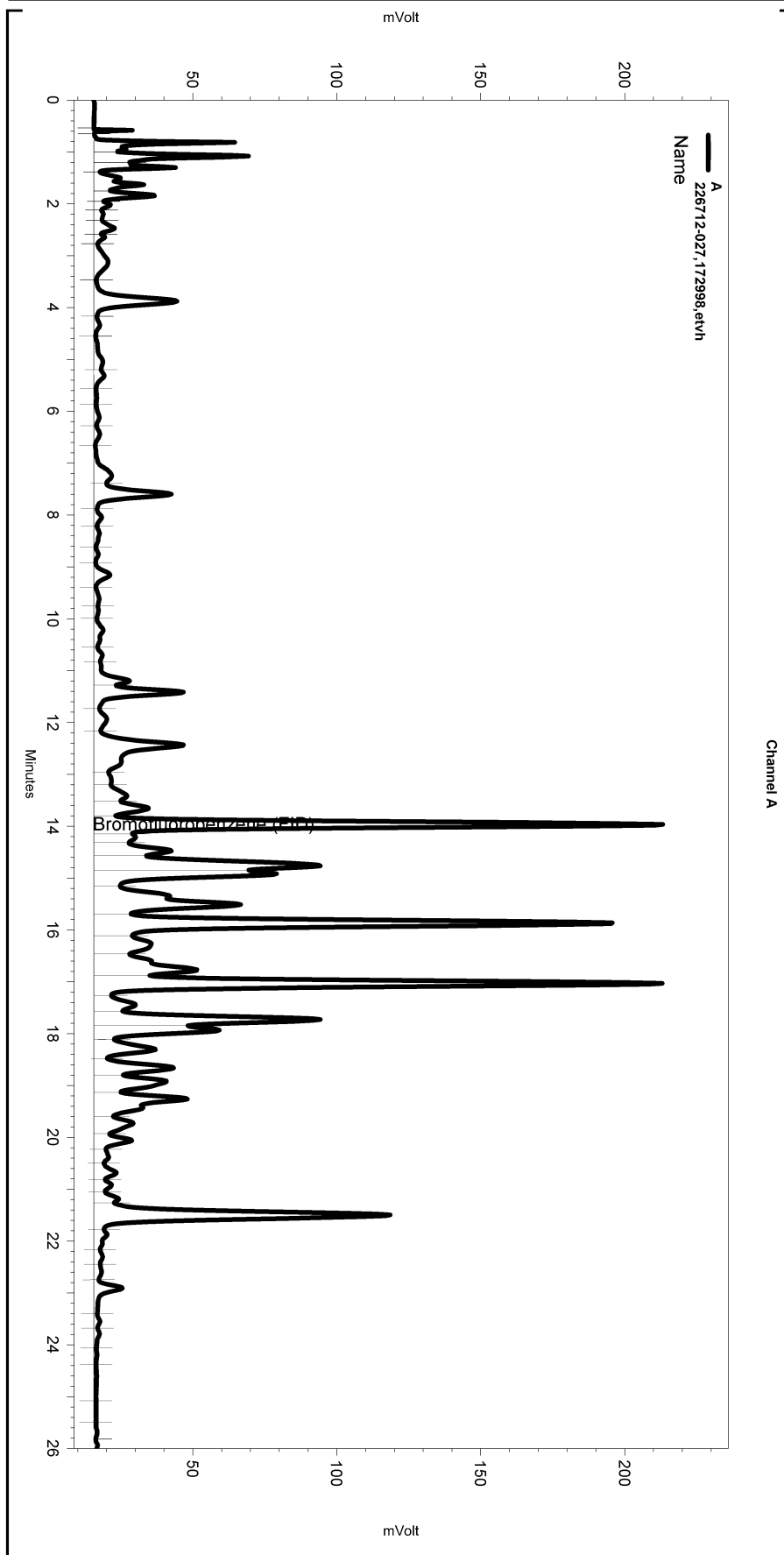
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\080-037

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.233	25.815	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-027,172998,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-007  
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\lvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/21/2011 7:24:58 PM  
 Analysis Date: 3/23/2011 2:25:54 PM  
 Sample Amount: 4.28 Multiplier: 4.28  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

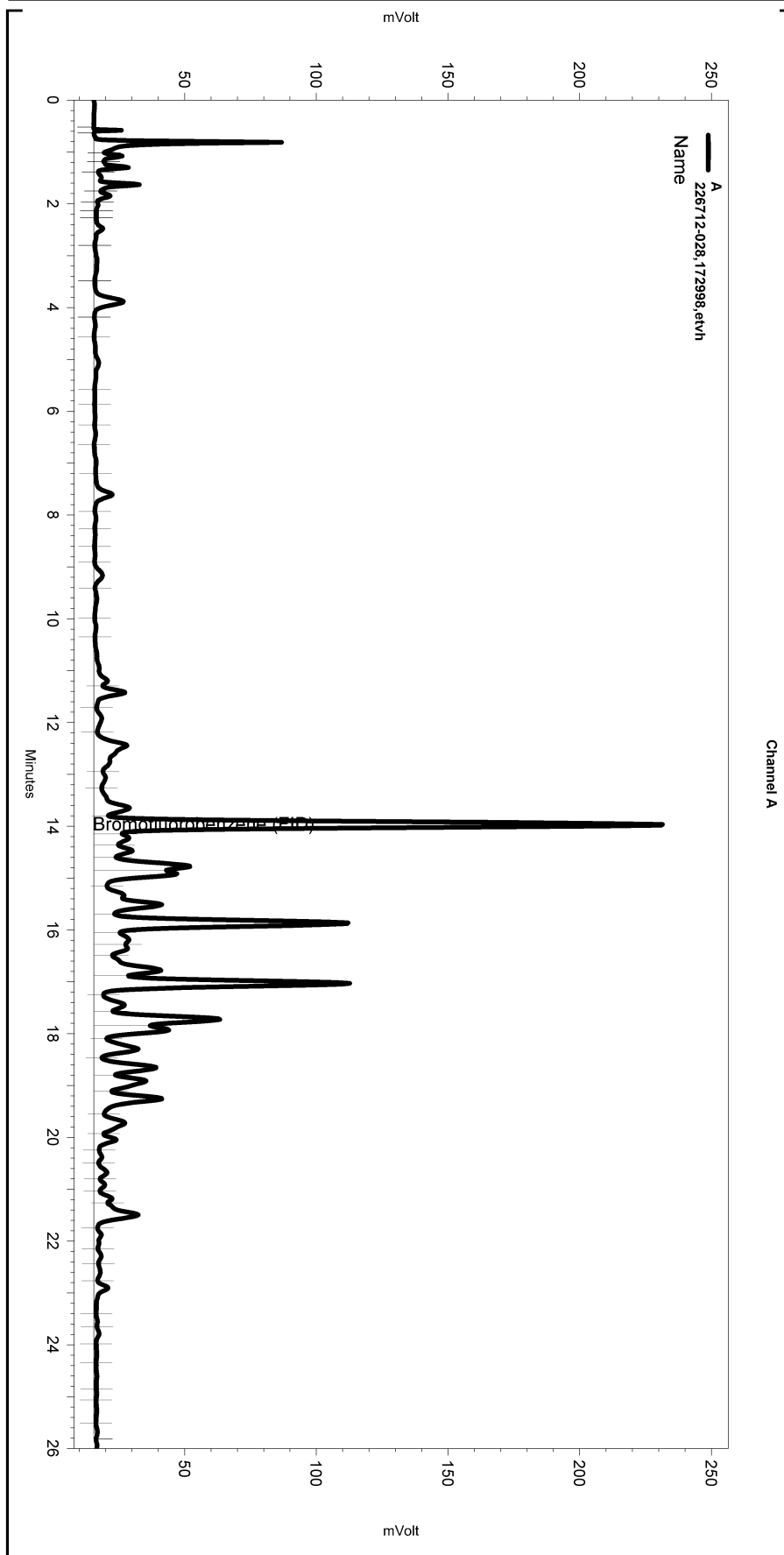
Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.78	25.42	0



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-028,172998,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-008  
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\TVHBTXE068.met

Software Version 3.1.7  
 Run Date: 3/21/2011 8:02:34 PM  
 Analysis Date: 3/23/2011 2:27:12 PM  
 Sample Amount: 6.52 Multiplier: 6.52  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

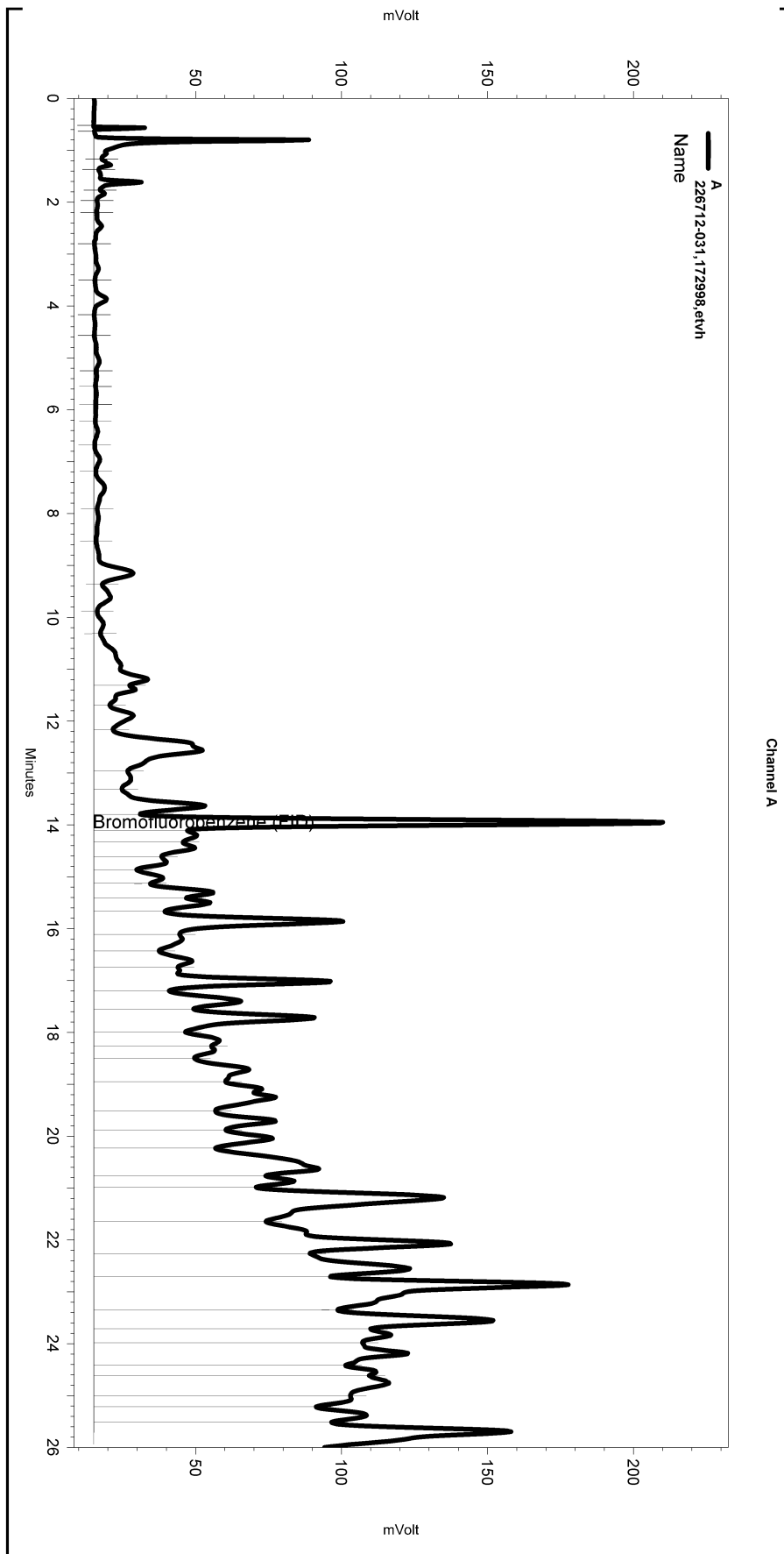
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-008

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.512	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-031,172998.etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-029  
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\TVHBTXE068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 12:17:49 PM  
 Analysis Date: 3/23/2011 2:32:44 PM  
 Sample Amount: 5.67 Multiplier: 5.67  
 Vial & pH or Core ID: b,dc275



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

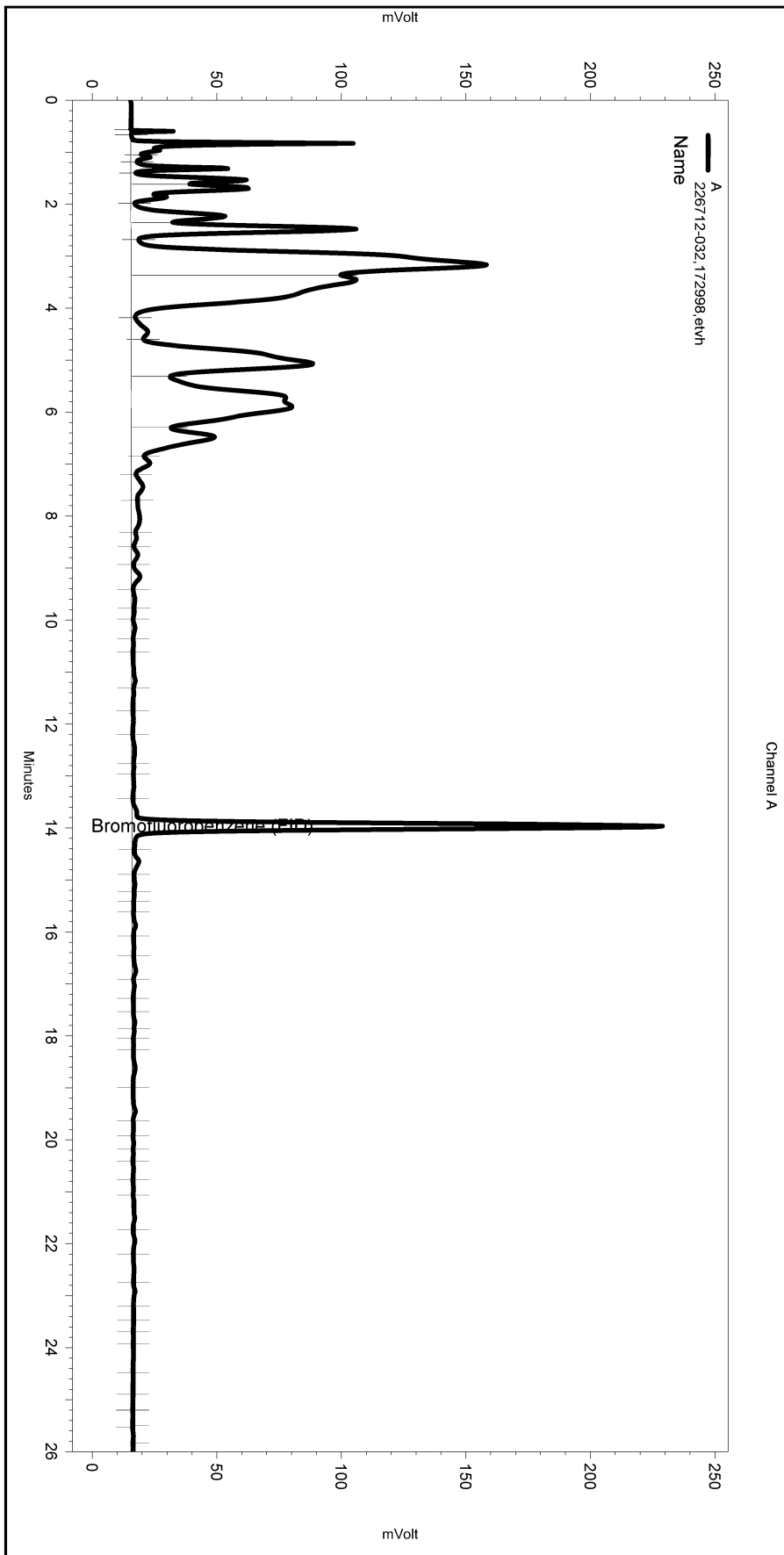
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.179	25.955	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-032,172998,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-012  
 Instrument: GC19 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbx068.met

Software Version 3.1.7  
 Run Date: 3/21/2011 10:33:07 PM  
 Analysis Date: 3/21/2011 11:02:16 PM  
 Sample Amount: 6.61 Multiplier: 6.61  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

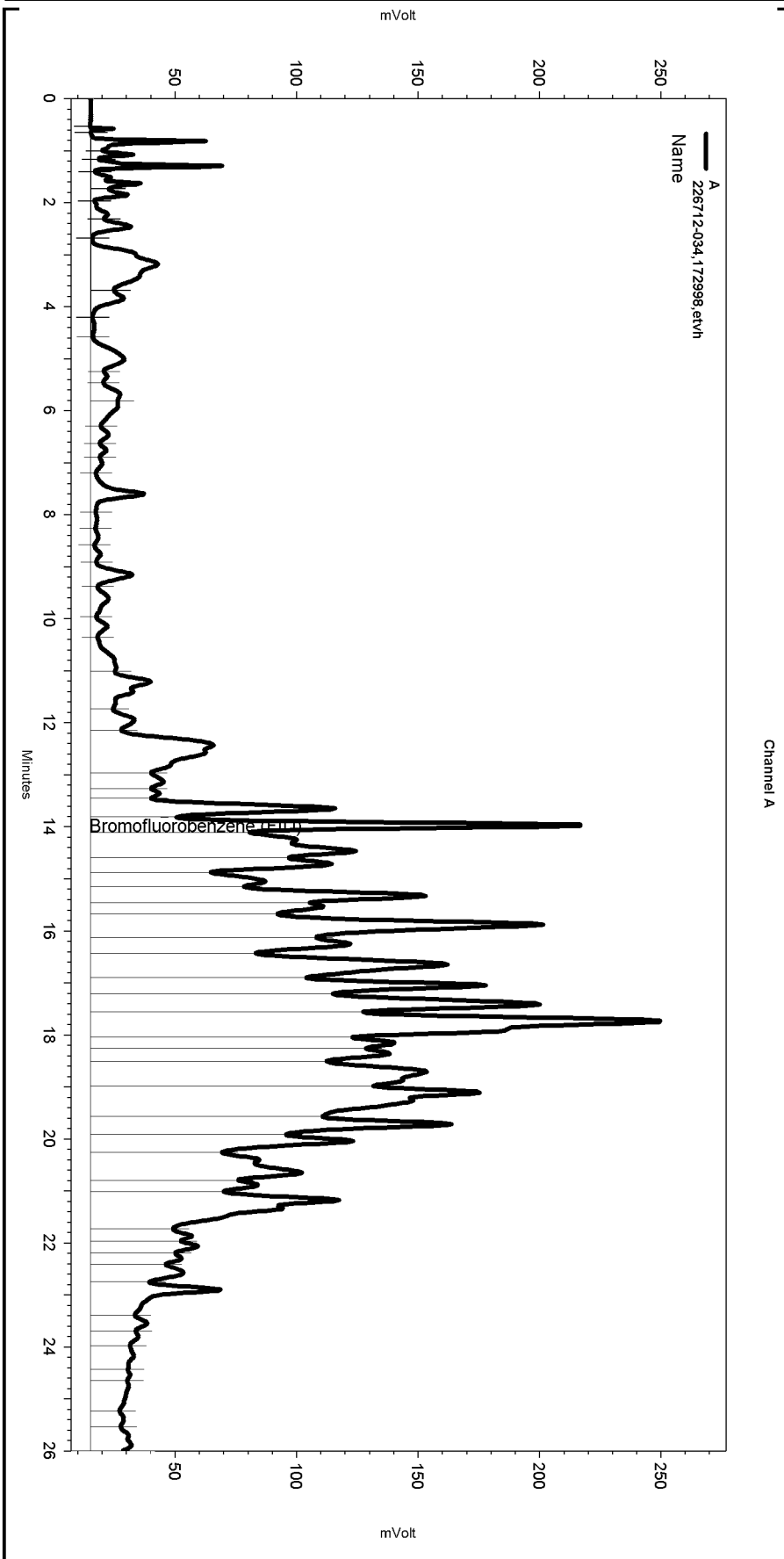
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10050\080-012\_A810.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-034,172998,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-014  
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\TVHBTX068.met

Software Version 3.1.7  
 Run Date: 3/21/2011 11:48:22 PM  
 Analysis Date: 3/22/2011 10:33:06 AM  
 Sample Amount: 6.06 Multiplier: 6.06  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

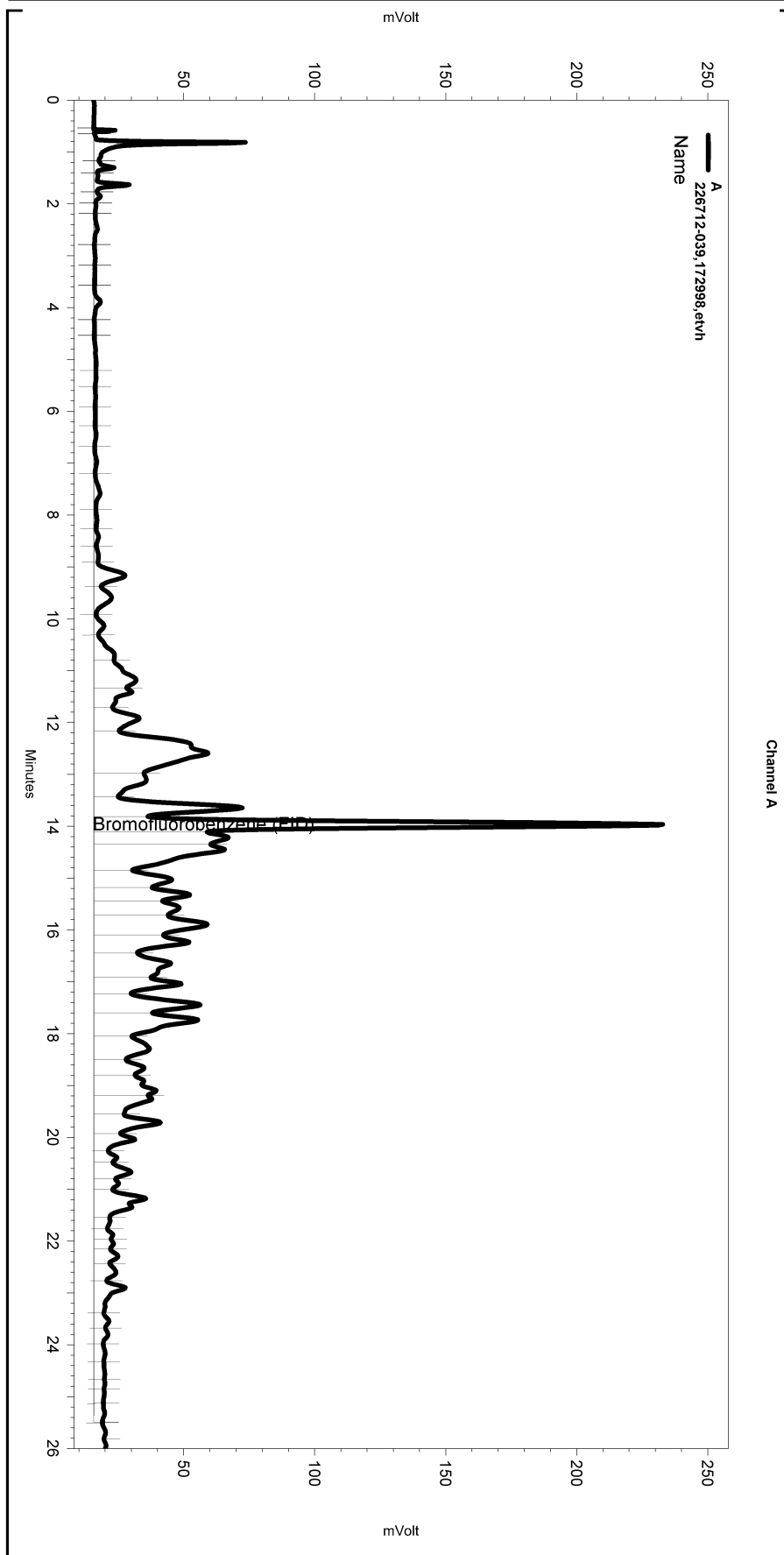
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0.51	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-039,172998,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-021  
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\TVHBTXE068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 4:11:30 AM  
 Analysis Date: 3/23/2011 2:30:59 PM  
 Sample Amount: 3.63 Multiplier: 3.63  
 Vial & pH or Core ID: b



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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

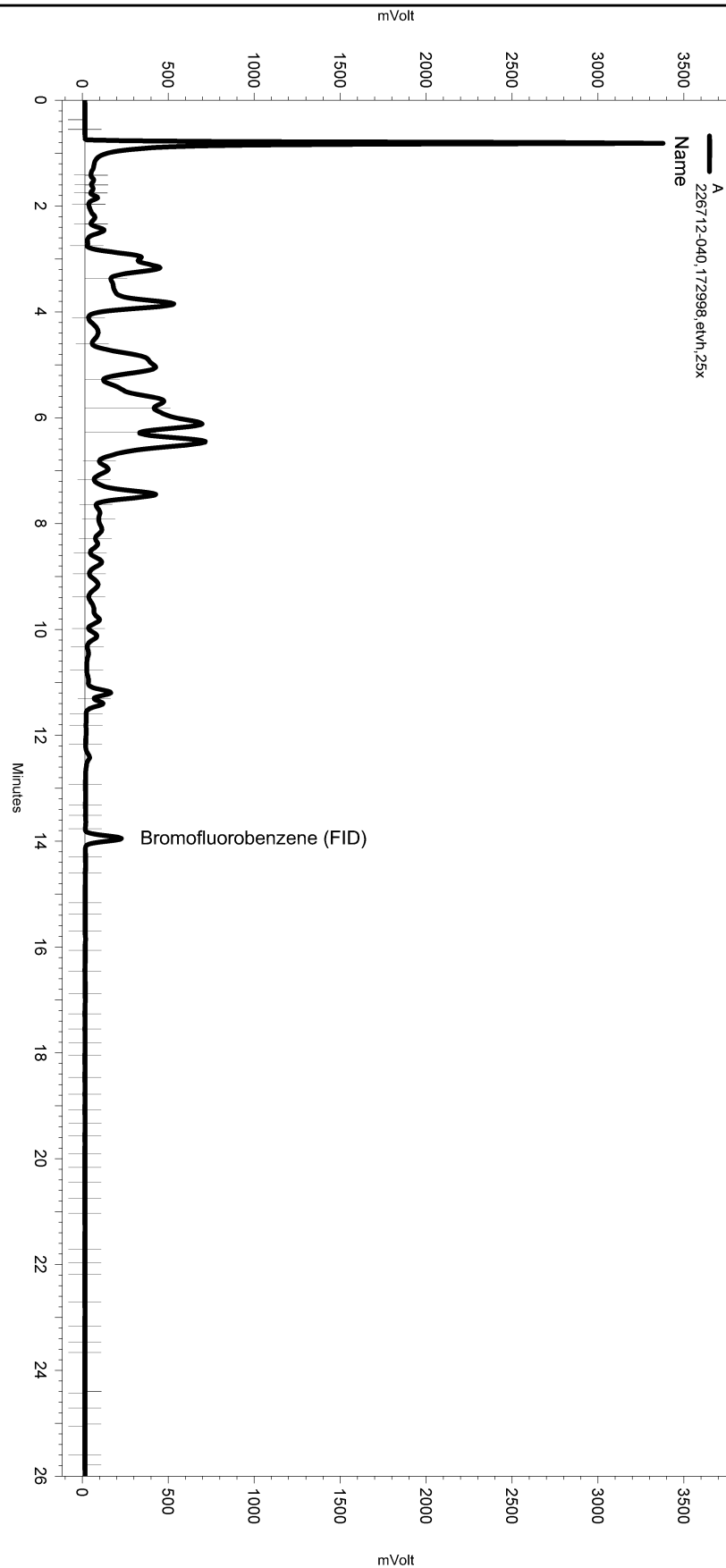
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-021

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0.512	25.553	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-040,172998,etvh,25x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-032  
 Instrument: GC19 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 2:33:00 PM  
 Analysis Date: 3/22/2011 3:02:08 PM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: e,dc275



Channel A

---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

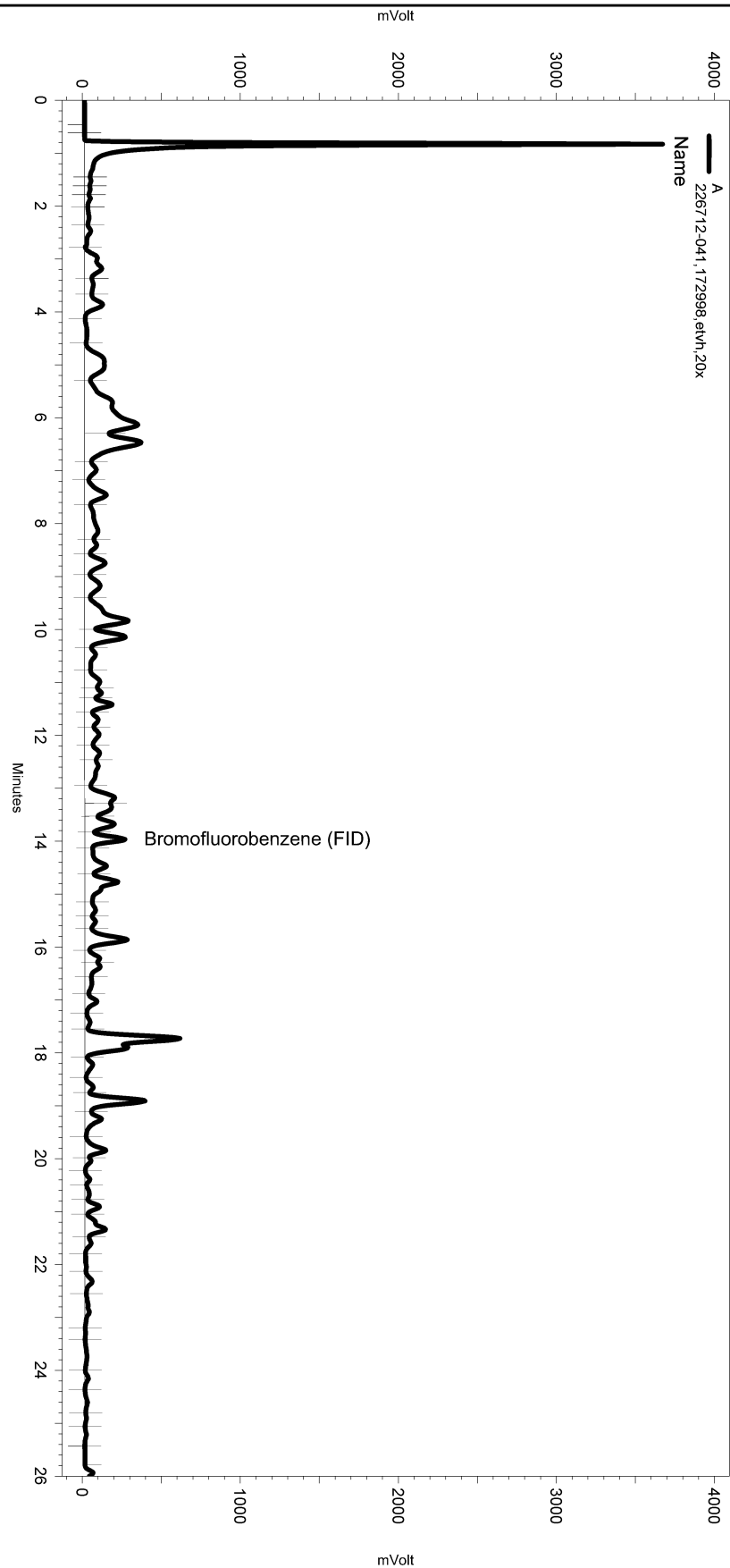
Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10050\080-032\_A826.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-041,172998,etvh,20x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-033  
 Instrument: GC19 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbx068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 3:10:31 PM  
 Analysis Date: 3/22/2011 3:39:39 PM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: e,dc275



---< General Method Parameters >---

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

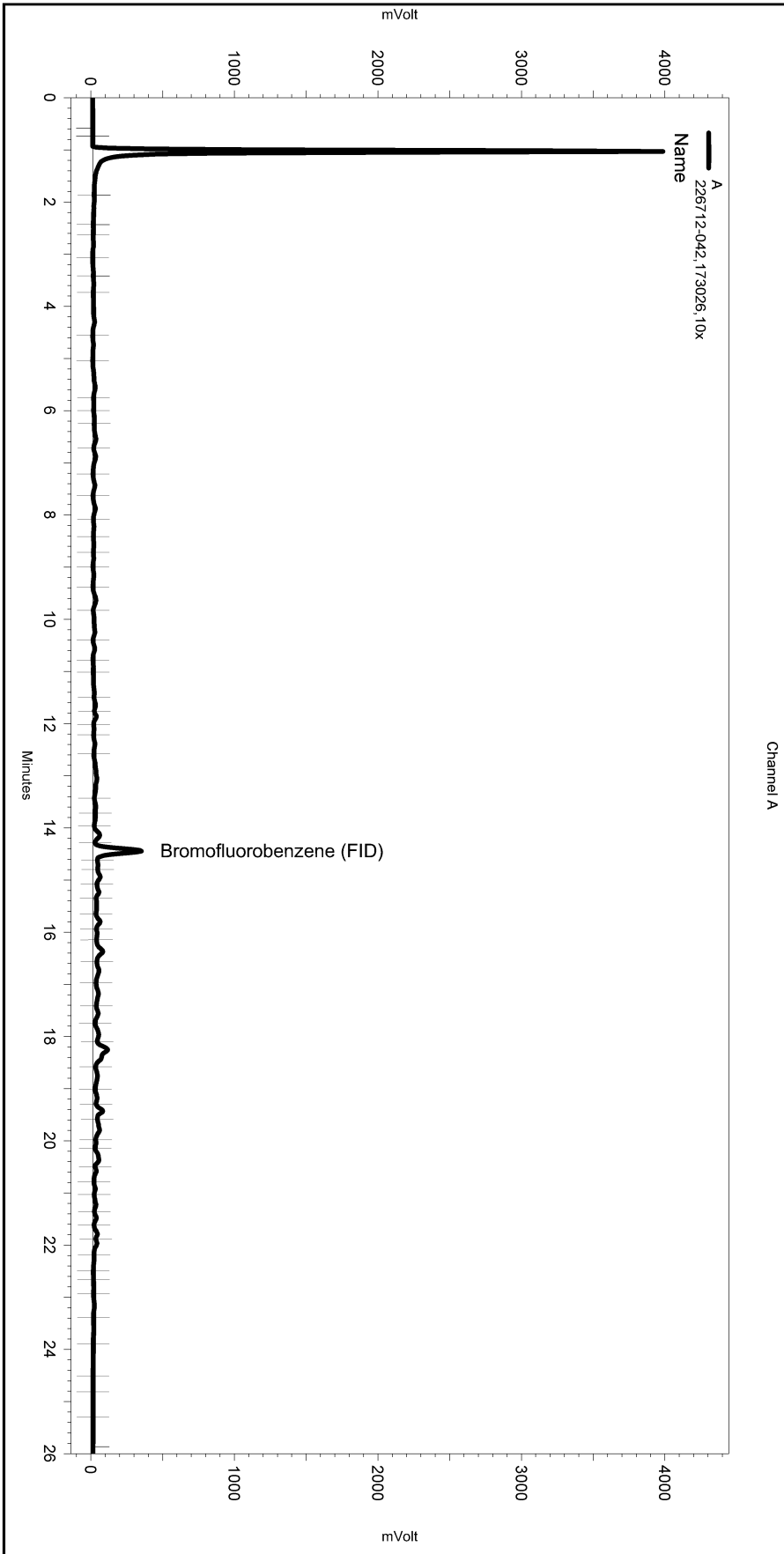
Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10050\080-033\_A827.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\081.seq  
 Sample Name: 226712-042,173026,10x  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\081-009  
 Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/22/2011 7:22:00 PM  
 Analysis Date: 3/22/2011 7:51:32 PM  
 Sample Amount: 1 Multiplier: 1  
 Vial & pH or Core ID: e



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 ---< General Method Parameters >-----  
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No items selected for this section

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 ---< A >-----  
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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

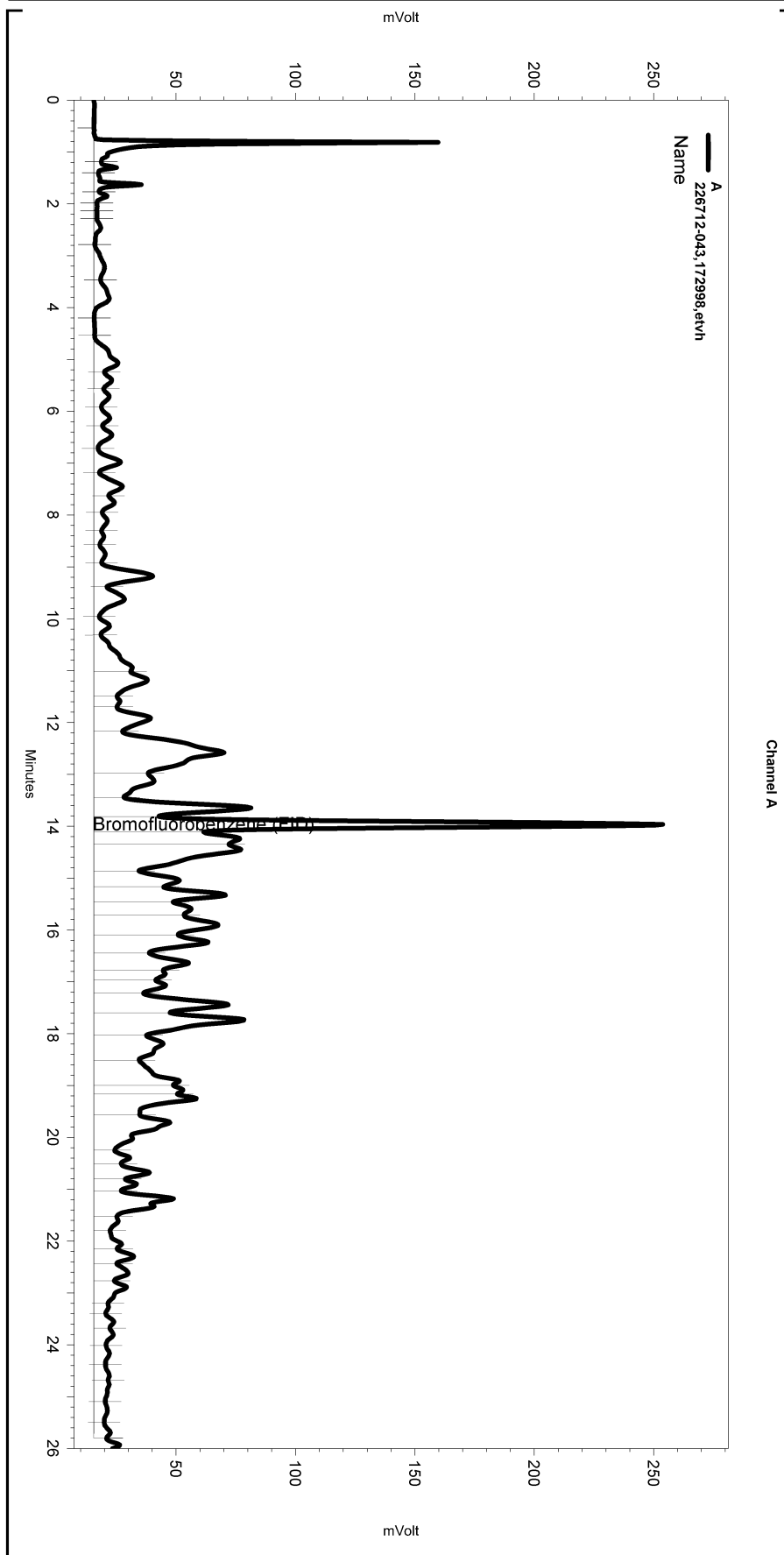
Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\081-009\_70E3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				



Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\080.seq  
 Sample Name: 226712-043,172998,etvh  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-025  
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\tvhbtxe068.met

Software Version 3.1.7  
 Run Date: 3/22/2011 6:41:47 AM  
 Analysis Date: 3/23/2011 2:31:46 PM  
 Sample Amount: 5.85 Multiplier: 5.85  
 Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

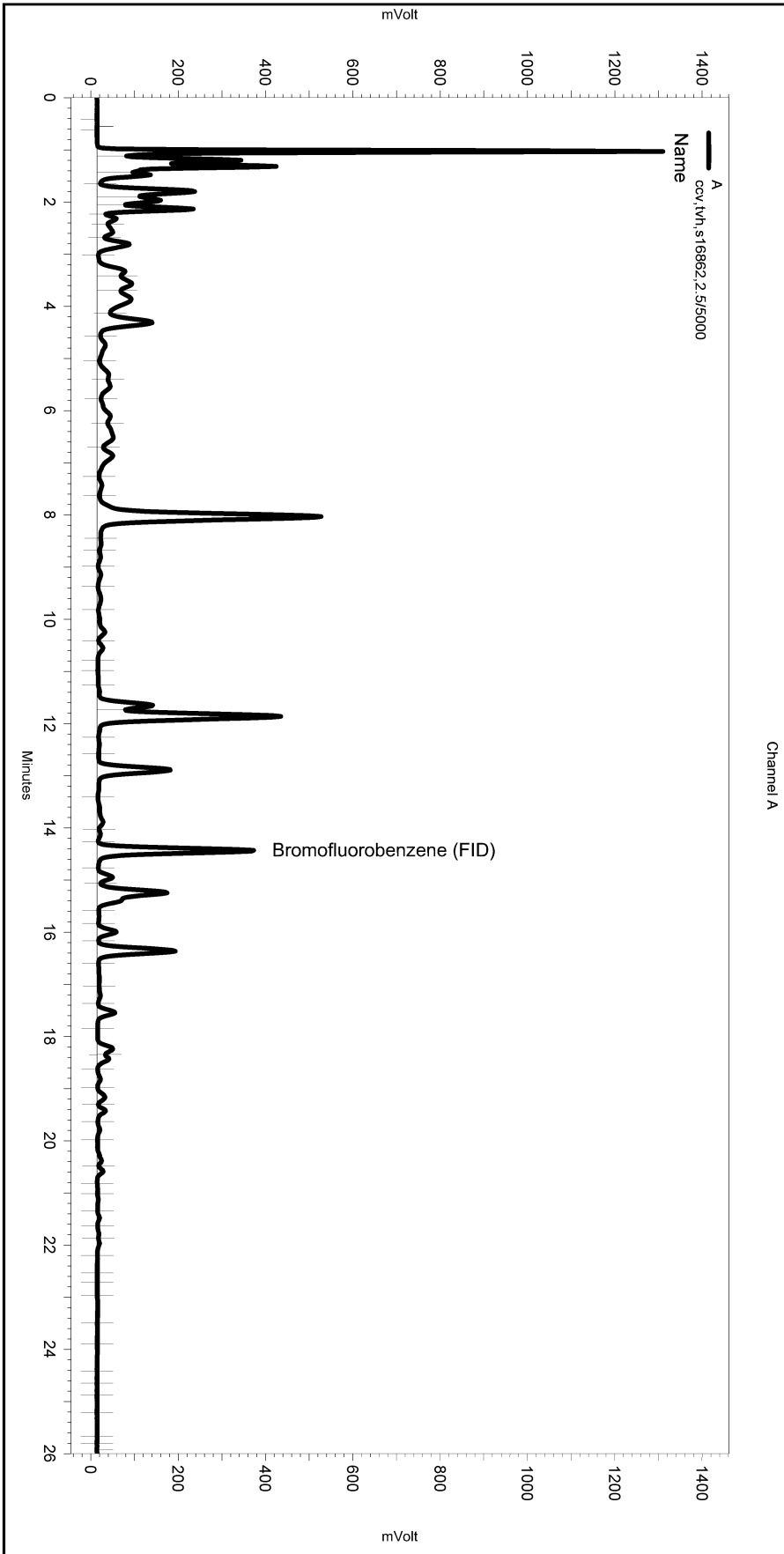
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\080-025

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC04\Sequence\080.seq  
 Sample Name: ccv,tvh,s16862,2.5/5000  
 Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\080-002  
 Instrument: GC04 Vial: N/A Operator: lims2k3\tvh3  
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe061.met

Software Version 3.1.7  
 Run Date: 3/21/2011 12:34:41 PM  
 Analysis Date: 3/21/2011 1:04:12 PM  
 Sample Amount: 5 Multiplier: 5  
 Vial & pH or Core ID: {Data Description}



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 ---< General Method Parameters >-----  
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No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application  
 Data\ChromatographySystem\Recovery  
 Data\Instrument.10047\080-002\_70B7.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID:	SB-20-1.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/21/11
Lab ID:	226712-001	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	170 Y	5.0
Motor Oil C24-C36	410	25

Surrogate	%REC	Limits
o-Terphenyl	47 *	52-130

Field ID:	SB-20-8.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-002	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172970		

Analyte	Result	RL
Diesel C10-C24	76 Y	1.0
Motor Oil C24-C36	170	5.0

Surrogate	%REC	Limits
o-Terphenyl	72	52-130

Field ID:	SB-20-12.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-003	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172986		

Analyte	Result	RL
Diesel C10-C24	130 Y	1.0
Motor Oil C24-C36	410	5.0

Surrogate	%REC	Limits
o-Terphenyl	94	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-35-2.5      Prepared: 03/21/11  
 Type: SAMPLE      Analyzed: 03/22/11  
 Lab ID: 226712-004      Prep: EPA 3550B  
 Diln Fac: 2.000      Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	150 Y	2.0
Motor Oil C24-C36	490	9.9

Surrogate	%REC	Limits
o-Terphenyl	75	52-130

Field ID: SB-35-8.5      Prepared: 03/21/11  
 Type: SAMPLE      Analyzed: 03/22/11  
 Lab ID: 226712-005      Prep: EPA 3550B  
 Diln Fac: 10.00      Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	490 Y	10
Motor Oil C24-C36	1,300	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID: SB-35-12.5      Prepared: 03/21/11  
 Type: SAMPLE      Analyzed: 03/22/11  
 Lab ID: 226712-006      Prep: EPA 3550B  
 Diln Fac: 2.000      Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	310 Y	2.0
Motor Oil C24-C36	1,000	10

Surrogate	%REC	Limits
o-Terphenyl	77	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis:	EPA 8015B
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11
Basis:	as received		

Field ID: SB-11-2.5                      Prepared: 03/21/11  
 Type: SAMPLE                              Analyzed: 03/24/11  
 Lab ID: 226712-007                      Prep: EPA 3550B  
 Diln Fac: 1.000                            Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	7.7 Y	1.0
Motor Oil C24-C36	22	5.0

Surrogate	%REC	Limits
o-Terphenyl	101	52-130

Field ID: SB-11-7.5                      Prepared: 03/21/11  
 Type: SAMPLE                              Analyzed: 03/22/11  
 Lab ID: 226712-008                      Prep: EPA 3550B  
 Diln Fac: 1.000                            Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	23 Y	1.0
Motor Oil C24-C36	51	5.0

Surrogate	%REC	Limits
o-Terphenyl	78	52-130

Field ID: SB-11-12.5                      Prepared: 03/21/11  
 Type: SAMPLE                              Analyzed: 03/22/11  
 Lab ID: 226712-009                      Prep: EPA 3550B  
 Diln Fac: 1.000                            Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	20 Y	1.0
Motor Oil C24-C36	51	5.0

Surrogate	%REC	Limits
o-Terphenyl	69	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-34-2.5      Prepared: 03/21/11  
 Type: SAMPLE      Analyzed: 03/22/11  
 Lab ID: 226712-010      Prep: EPA 3550B  
 Diln Fac: 3.000      Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	130 Y	3.0
Motor Oil C24-C36	440	15

Surrogate	%REC	Limits
o-Terphenyl	63	52-130

Field ID: SB-34-8.5      Prepared: 03/21/11  
 Type: SAMPLE      Analyzed: 03/23/11  
 Lab ID: 226712-011      Prep: EPA 3550B  
 Diln Fac: 1.000      Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	510 Y	1.0
Motor Oil C24-C36	380	5.0

Surrogate	%REC	Limits
o-Terphenyl	82	52-130

Field ID: SB-34-10.5      Prepared: 03/21/11  
 Type: SAMPLE      Analyzed: 03/23/11  
 Lab ID: 226712-012      Prep: EPA 3550B  
 Diln Fac: 10.00      Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	3,600 Y	10
Motor Oil C24-C36	2,300	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID:	SB-21-2.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-013	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	172986		

Analyte	Result	RL
Diesel C10-C24	34 Y	0.99
Motor Oil C24-C36	61	5.0

Surrogate	%REC	Limits
o-Terphenyl	68	52-130

Field ID:	SB-21-8.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-014	Prep:	EPA 3550B
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	172986		

Analyte	Result	RL
Diesel C10-C24	150 Y	9.9
Motor Oil C24-C36	530	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-21-12.5	Prepared:	03/21/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-015	Prep:	EPA 3550B
Diln Fac:	3.000	Cleanup Method:	EPA 3630C
Batch#:	172986		

Analyte	Result	RL
Diesel C10-C24	210 Y	3.0
Motor Oil C24-C36	790	15

Surrogate	%REC	Limits
o-Terphenyl	56	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-33-2.5                      Prepared: 03/21/11  
 Type: SAMPLE                              Analyzed: 03/22/11  
 Lab ID: 226712-016                      Prep: EPA 3550B  
 Diln Fac: 1.000                            Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	4.1 Y	1.0
Motor Oil C24-C36	12	5.0

Surrogate	%REC	Limits
o-Terphenyl	78	52-130

Field ID: SB-33-8.5                      Prepared: 03/21/11  
 Type: SAMPLE                              Analyzed: 03/22/11  
 Lab ID: 226712-017                      Prep: EPA 3550B  
 Diln Fac: 2.000                            Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	180 Y	2.0
Motor Oil C24-C36	300	9.9

Surrogate	%REC	Limits
o-Terphenyl	78	52-130

Field ID: SB-33-12.5                      Prepared: 03/21/11  
 Type: SAMPLE                              Analyzed: 03/22/11  
 Lab ID: 226712-018                      Prep: EPA 3550B  
 Diln Fac: 1.000                            Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	41 Y	1.0
Motor Oil C24-C36	33	5.0

Surrogate	%REC	Limits
o-Terphenyl	70	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit



Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-23-2.5                      Prepared: 03/21/11  
 Type: SAMPLE                              Analyzed: 03/22/11  
 Lab ID: 226712-019                      Prep: EPA 3550B  
 Diln Fac: 2.000                            Cleanup Method: EPA 3630C  
 Batch#: 172986

Analyte	Result	RL
Diesel C10-C24	48 Y	2.0
Motor Oil C24-C36	160	10

Surrogate	%REC	Limits
o-Terphenyl	84	52-130

Field ID: SB-23-7.0                      Prepared: 03/22/11  
 Type: SAMPLE                              Analyzed: 03/22/11  
 Lab ID: 226712-020                      Prep: SHAKER TABLE  
 Diln Fac: 1.000                            Cleanup Method: EPA 3630C  
 Batch#: 173022

Analyte	Result	RL
Diesel C10-C24	41 Y	1.0
Motor Oil C24-C36	35	5.0

Surrogate	%REC	Limits
o-Terphenyl	88	52-130

Field ID: SB-23-12.5                      Prepared: 03/22/11  
 Type: SAMPLE                              Analyzed: 03/22/11  
 Lab ID: 226712-021                      Prep: SHAKER TABLE  
 Diln Fac: 3.000                            Cleanup Method: EPA 3630C  
 Batch#: 173022

Analyte	Result	RL
Diesel C10-C24	91 Y	3.0
Motor Oil C24-C36	230	15

Surrogate	%REC	Limits
o-Terphenyl	57	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID:	SB-26-1.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-022	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	170 Y	10
Motor Oil C24-C36	640	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-26-6.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-023	Prep:	SHAKER TABLE
Diln Fac:	3.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	95 Y	3.0
Motor Oil C24-C36	270	15

Surrogate	%REC	Limits
o-Terphenyl	70	52-130

Field ID:	SB-26-12.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-024	Prep:	SHAKER TABLE
Diln Fac:	6.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	69 Y	6.0
Motor Oil C24-C36	280	30

Surrogate	%REC	Limits
o-Terphenyl	63	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis:	EPA 8015B
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11
Basis:	as received		

Field ID:	SB-26-20.0	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-025	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	44 Y	1.0
Motor Oil C24-C36	80	5.0

Surrogate	%REC	Limits
o-Terphenyl	72	52-130

Field ID:	SB-22-2.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-026	Prep:	SHAKER TABLE
Diln Fac:	6.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	310 Y	6.0
Motor Oil C24-C36	540	30

Surrogate	%REC	Limits
o-Terphenyl	79	52-130

Field ID:	SB-22-7.0	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-027	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	1.0 Y	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	80	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-22-12.5      Prepared: 03/22/11  
 Type: SAMPLE      Analyzed: 03/23/11  
 Lab ID: 226712-028      Prep: SHAKER TABLE  
 Diln Fac: 10.00      Cleanup Method: EPA 3630C  
 Batch#: 173022

Analyte	Result	RL
Diesel C10-C24	100 Y	10
Motor Oil C24-C36	420	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID: SB-19-2.5      Prepared: 03/22/11  
 Type: SAMPLE      Analyzed: 03/23/11  
 Lab ID: 226712-029      Prep: SHAKER TABLE  
 Diln Fac: 6.000      Cleanup Method: EPA 3630C  
 Batch#: 173022

Analyte	Result	RL
Diesel C10-C24	77 Y	6.0
Motor Oil C24-C36	290	30

Surrogate	%REC	Limits
o-Terphenyl	55	52-130

Field ID: SB-19-7.5      Prepared: 03/22/11  
 Type: SAMPLE      Analyzed: 03/22/11  
 Lab ID: 226712-030      Prep: SHAKER TABLE  
 Diln Fac: 10.00      Cleanup Method: EPA 3630C  
 Batch#: 173022

Analyte	Result	RL
Diesel C10-C24	380 Y	10
Motor Oil C24-C36	920	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis:	EPA 8015B
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11
Basis:	as received		

Field ID:	SB-19-12.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-031	Prep:	SHAKER TABLE
Diln Fac:	3.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	310 Y	3.0
Motor Oil C24-C36	490	15

Surrogate	%REC	Limits
o-Terphenyl	52	52-130

Field ID:	SB-28-1.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-032	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	170 Y	10
Motor Oil C24-C36	690	50

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-28-7.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-033	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	71	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-28-12.5      Prepared: 03/22/11  
 Type: SAMPLE      Analyzed: 03/23/11  
 Lab ID: 226712-034      Prep: SHAKER TABLE  
 Diln Fac: 2.000      Cleanup Method: EPA 3630C  
 Batch#: 173022

Analyte	Result	RL
Diesel C10-C24	380 Y	5.0
Motor Oil C24-C36	880	25

Surrogate	%REC	Limits
o-Terphenyl	61	52-130

Field ID: SB-28-16.0      Prepared: 03/22/11  
 Type: SAMPLE      Analyzed: 03/23/11  
 Lab ID: 226712-035      Prep: SHAKER TABLE  
 Diln Fac: 1.000      Cleanup Method: EPA 3630C  
 Batch#: 173022

Analyte	Result	RL
Diesel C10-C24	6.7 Y	1.0
Motor Oil C24-C36	11	5.0

Surrogate	%REC	Limits
o-Terphenyl	66	52-130

Field ID: SB-18-2.5      Prepared: 03/28/11  
 Type: SAMPLE      Analyzed: 03/29/11  
 Lab ID: 226712-037      Prep: SHAKER TABLE  
 Diln Fac: 2.000      Cleanup Method: EPA 3630C  
 Batch#: 173186

Analyte	Result	RL
Diesel C10-C24	48 Y	2.0
Motor Oil C24-C36	240	10

Surrogate	%REC	Limits
o-Terphenyl	79	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	226712	Location: 64th & Christie Emeryville, CA	
Client:	PES Environmental, Inc.	Analysis: EPA 8015B	
Project#:	241.082.02.001		
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11
Basis:	as received		

Field ID:	SB-18-7.0	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-038	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	16 Y	1.0
Motor Oil C24-C36	71	5.0

Surrogate	%REC	Limits
o-Terphenyl	59	52-130

Field ID:	SB-18-12.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-039	Prep:	SHAKER TABLE
Diln Fac:	20.00	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	390 Y	20
Motor Oil C24-C36	1,800	100

Surrogate	%REC	Limits
o-Terphenyl	DO	52-130

Field ID:	SB-30-2.0	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/24/11
Lab ID:	226712-040	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	173022		

Analyte	Result	RL
Diesel C10-C24	49	0.99
Motor Oil C24-C36	49	5.0

Surrogate	%REC	Limits
o-Terphenyl	52	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Field ID:	SB-30-8.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/22/11
Lab ID:	226712-041	Prep:	EPA 3550B
Diln Fac:	3.000	Cleanup Method:	EPA 3630C
Batch#:	173041		

Analyte	Result	RL
Diesel C10-C24	280 Y	3.0
Motor Oil C24-C36	720	15

Surrogate	%REC	Limits
o-Terphenyl	61	52-130

Field ID:	SB-30-12.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-042	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	173041		

Analyte	Result	RL
Diesel C10-C24	120 Y	1.0
Motor Oil C24-C36	180	5.0

Surrogate	%REC	Limits
o-Terphenyl	72	52-130

Field ID:	SB-30-15.5	Prepared:	03/22/11
Type:	SAMPLE	Analyzed:	03/23/11
Lab ID:	226712-043	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	173041		

Analyte	Result	RL
Diesel C10-C24	53 Y	1.0
Motor Oil C24-C36	69	5.0

Surrogate	%REC	Limits
o-Terphenyl	90	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit





Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Analysis: EPA 8015B
Project#:	241.082.02.001	
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	

Type:	BLANK	Prepared:	03/22/11
Lab ID:	QC584843	Analyzed:	03/23/11
Diln Fac:	1.000	Prep:	EPA 3550B
Batch#:	173041	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	92	52-130

Type:	BLANK	Prepared:	03/28/11
Lab ID:	QC585451	Analyzed:	03/29/11
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	173186	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	76	52-130

\*= Value outside of QC limits; see narrative  
 Y= Sample exhibits chromatographic pattern which does not resemble standard  
 DO= Diluted Out  
 ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584570	Batch#: 172970
Matrix:	Soil	Prepared: 03/21/11
Units:	mg/Kg	Analyzed: 03/22/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.94	35.13	70	44-151

Surrogate	%REC	Limits
o-Terphenyl	91	52-130

## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Field ID:	SB-20-1.5	Batch#: 172970
MSS Lab ID:	226712-001	Sampled: 03/17/11
Matrix:	Soil	Received: 03/17/11
Units:	mg/Kg	Prepared: 03/21/11
Basis:	as received	Analyzed: 03/21/11
Diln Fac:	5.000	

Type: MS Cleanup Method: EPA 3630C  
 Lab ID: QC584571

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	172.7	49.52	106.4	-134 *	39-146

Surrogate	%REC	Limits
o-Terphenyl	33 *	52-130

Type: MSD Cleanup Method: EPA 3630C  
 Lab ID: QC584572

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.00	131.6	-82 *	39-146	21	61

Surrogate	%REC	Limits
o-Terphenyl	34 *	52-130

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584626	Batch#: 172986
Matrix:	Soil	Prepared: 03/21/11
Units:	mg/Kg	Analyzed: 03/22/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.49	32.16	64	44-151

Surrogate	%REC	Limits
o-Terphenyl	59	52-130



## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584772	Batch#: 173022
Matrix:	Soil	Prepared: 03/22/11
Units:	mg/Kg	Analyzed: 03/23/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.93	25.44	51	44-151

Surrogate	%REC	Limits
o-Terphenyl	52	52-130

## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Field ID:	SB-22-7.0	Batch#: 173022
MSS Lab ID:	226712-027	Sampled: 03/17/11
Matrix:	Soil	Received: 03/17/11
Units:	mg/Kg	Prepared: 03/22/11
Basis:	as received	Analyzed: 03/25/11
Diln Fac:	1.000	

Type: MS Cleanup Method: EPA 3630C  
 Lab ID: QC584773

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	1.036	49.77	33.72	66	39-146

Surrogate	%REC	Limits
o-Terphenyl	79	52-130

Type: MSD Cleanup Method: EPA 3630C  
 Lab ID: QC584774

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.49	28.99	55	39-146	16	61

Surrogate	%REC	Limits
o-Terphenyl	72	52-130

RPD= Relative Percent Difference



## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584844	Batch#: 173041
Matrix:	Soil	Prepared: 03/22/11
Units:	mg/Kg	Analyzed: 03/23/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.39	53.54	106	44-151

Surrogate	%REC	Limits
o-Terphenyl	113	52-130

Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#: 173041
MSS Lab ID:	226779-001	Sampled: 03/22/11
Matrix:	Soil	Received: 03/22/11
Units:	mg/Kg	Prepared: 03/22/11
Basis:	as received	Analyzed: 03/23/11
Diln Fac:	1.000	

Type: MS Cleanup Method: EPA 3630C  
 Lab ID: QC584845

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<0.2626	50.16	47.23	94	39-146

Surrogate	%REC	Limits
o-Terphenyl	97	52-130

Type: MSD Cleanup Method: EPA 3630C  
 Lab ID: QC584846

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.12	61.70	123	39-146	27	61

Surrogate	%REC	Limits
o-Terphenyl	130	52-130

RPD= Relative Percent Difference

## Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC585452	Batch#: 173186
Matrix:	Soil	Prepared: 03/28/11
Units:	mg/Kg	Analyzed: 03/29/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.19	33.55	67	44-151

Surrogate	%REC	Limits
o-Terphenyl	77	52-130

Batch QC Report

Total Extractable Hydrocarbons		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: SHAKER TABLE
Project#:	241.082.02.001	Analysis: EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#: 173186
MSS Lab ID:	226844-010	Sampled: 03/22/11
Matrix:	Soil	Received: 03/24/11
Units:	mg/Kg	Prepared: 03/28/11
Basis:	as received	Analyzed: 03/29/11
Diln Fac:	1.000	

Type: MS Cleanup Method: EPA 3630C  
 Lab ID: QC585453

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	47.44	50.38	90.91	86	39-146

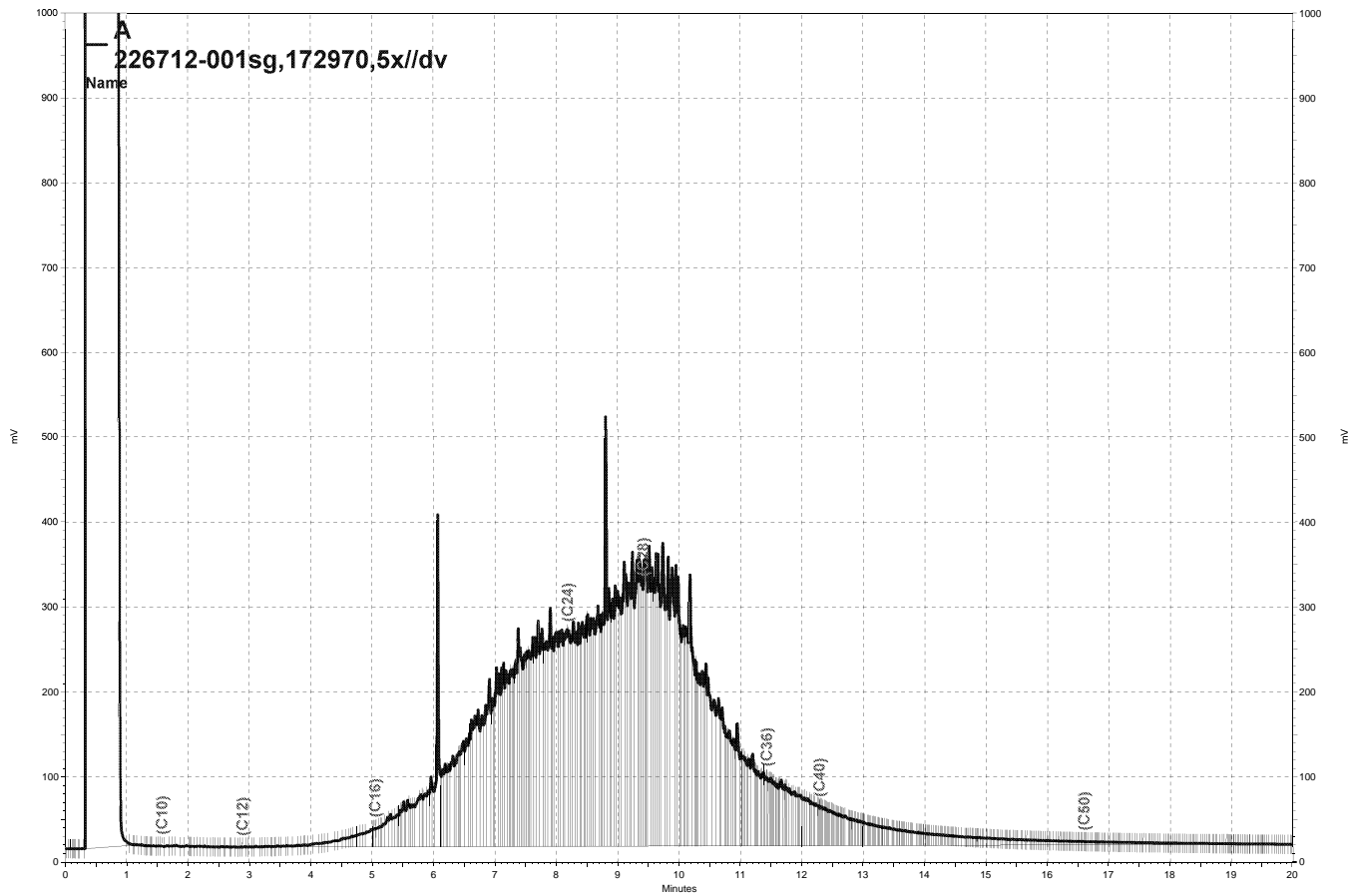
Surrogate	%REC	Limits
o-Terphenyl	85	52-130

Type: MSD Cleanup Method: EPA 3630C  
 Lab ID: QC585454

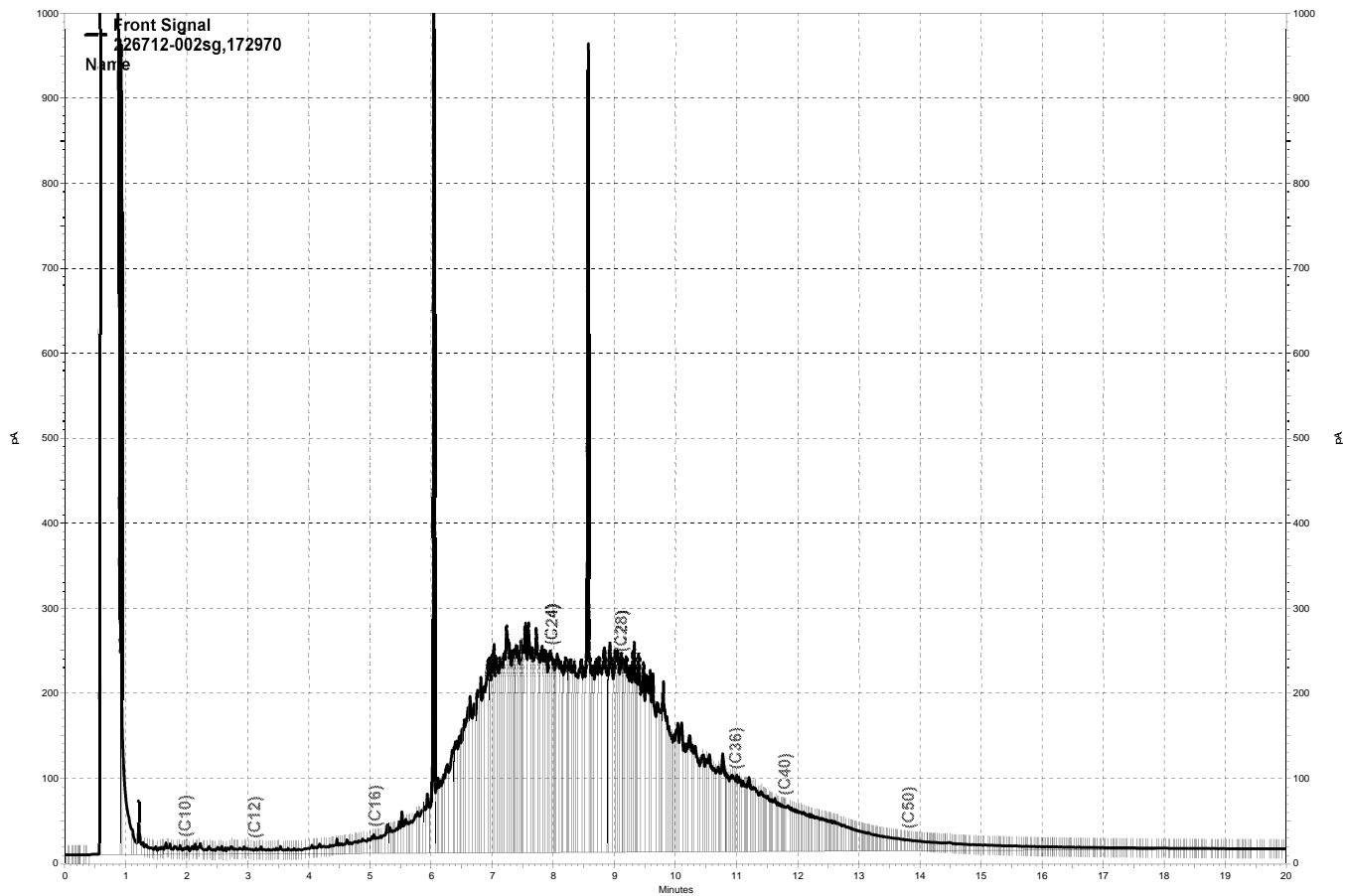
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Diesel C10-C24	49.90	74.84	55	39-146	19	61

Surrogate	%REC	Limits
o-Terphenyl	73	52-130

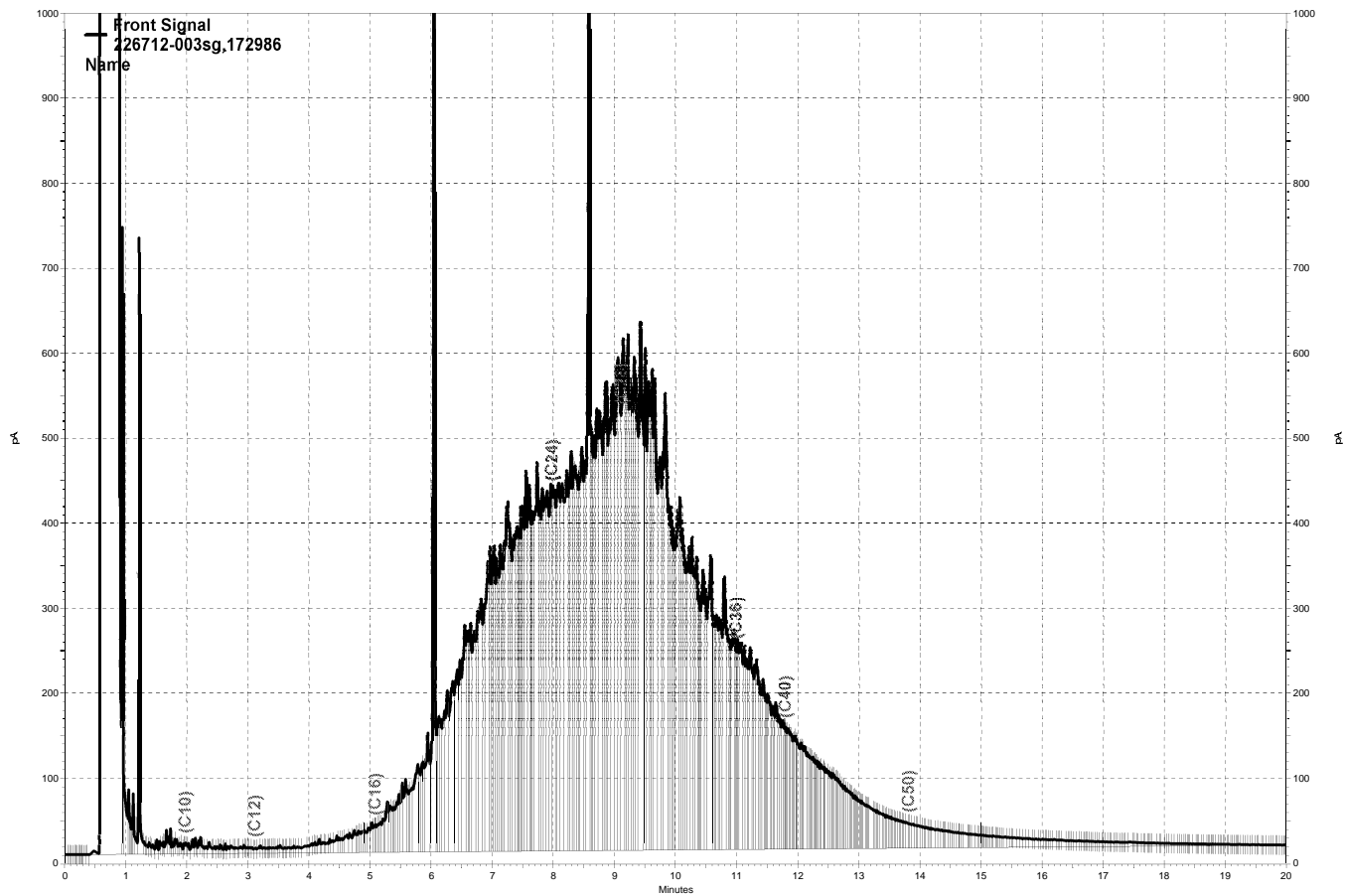
RPD= Relative Percent Difference



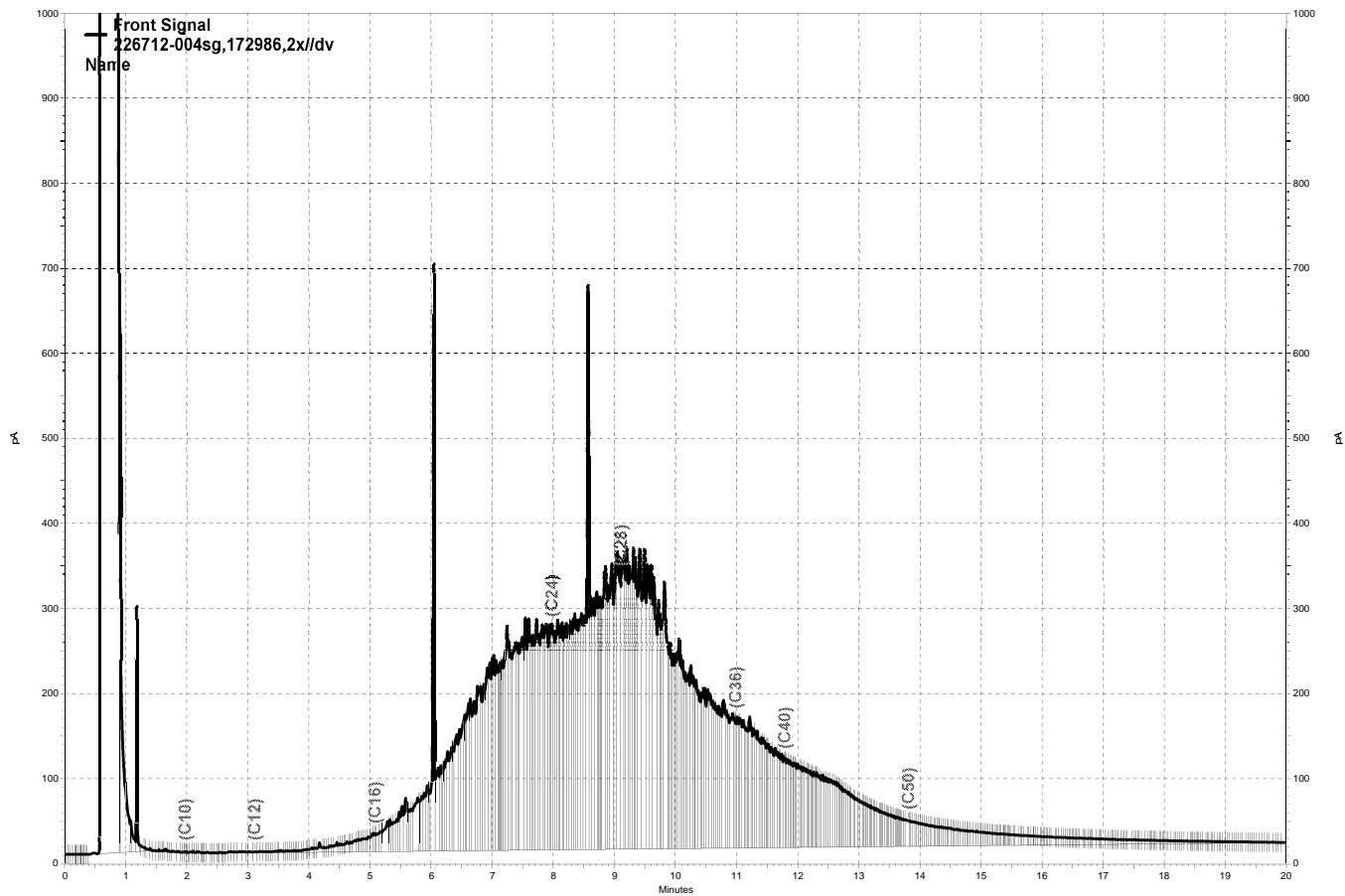
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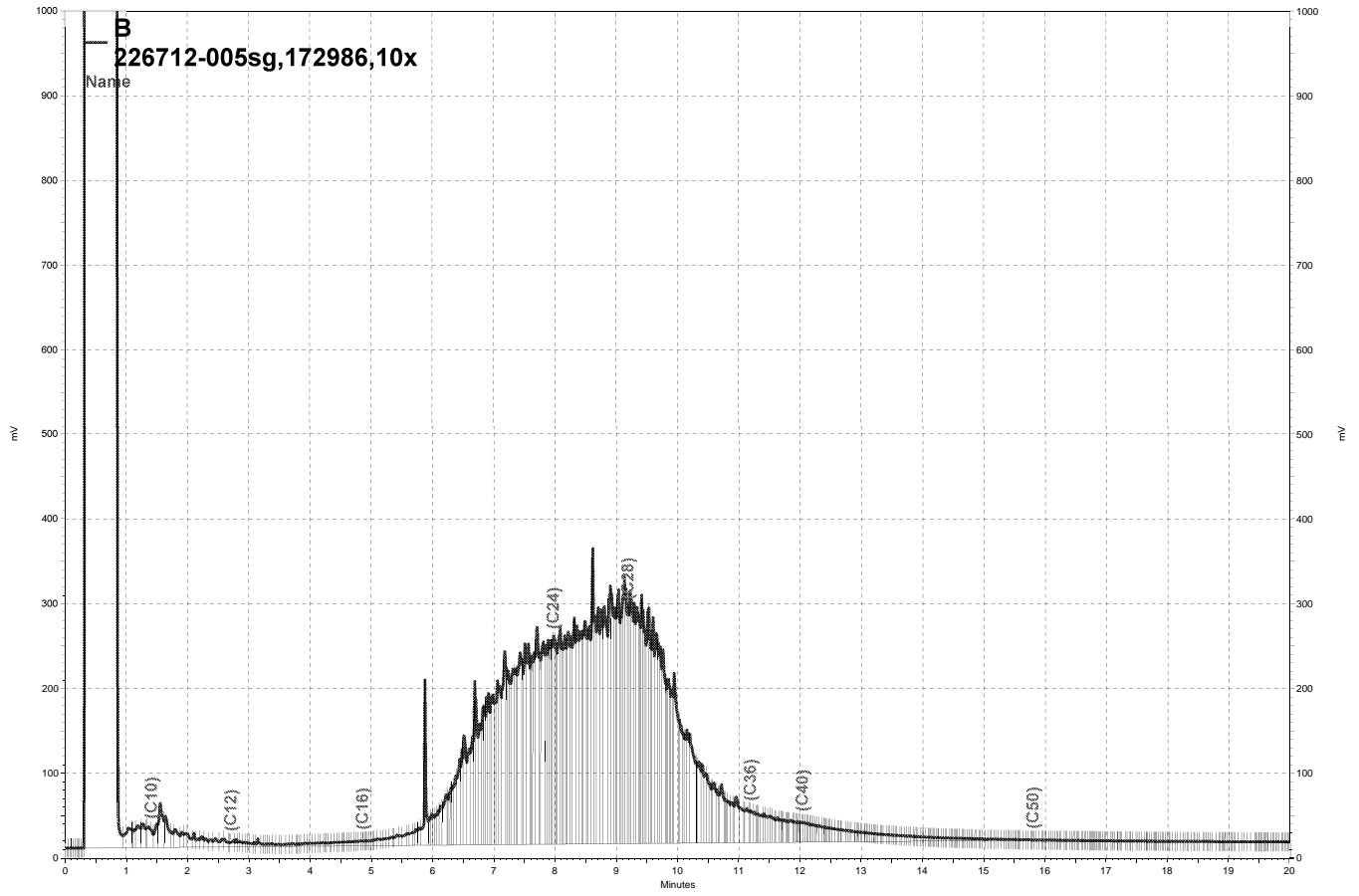


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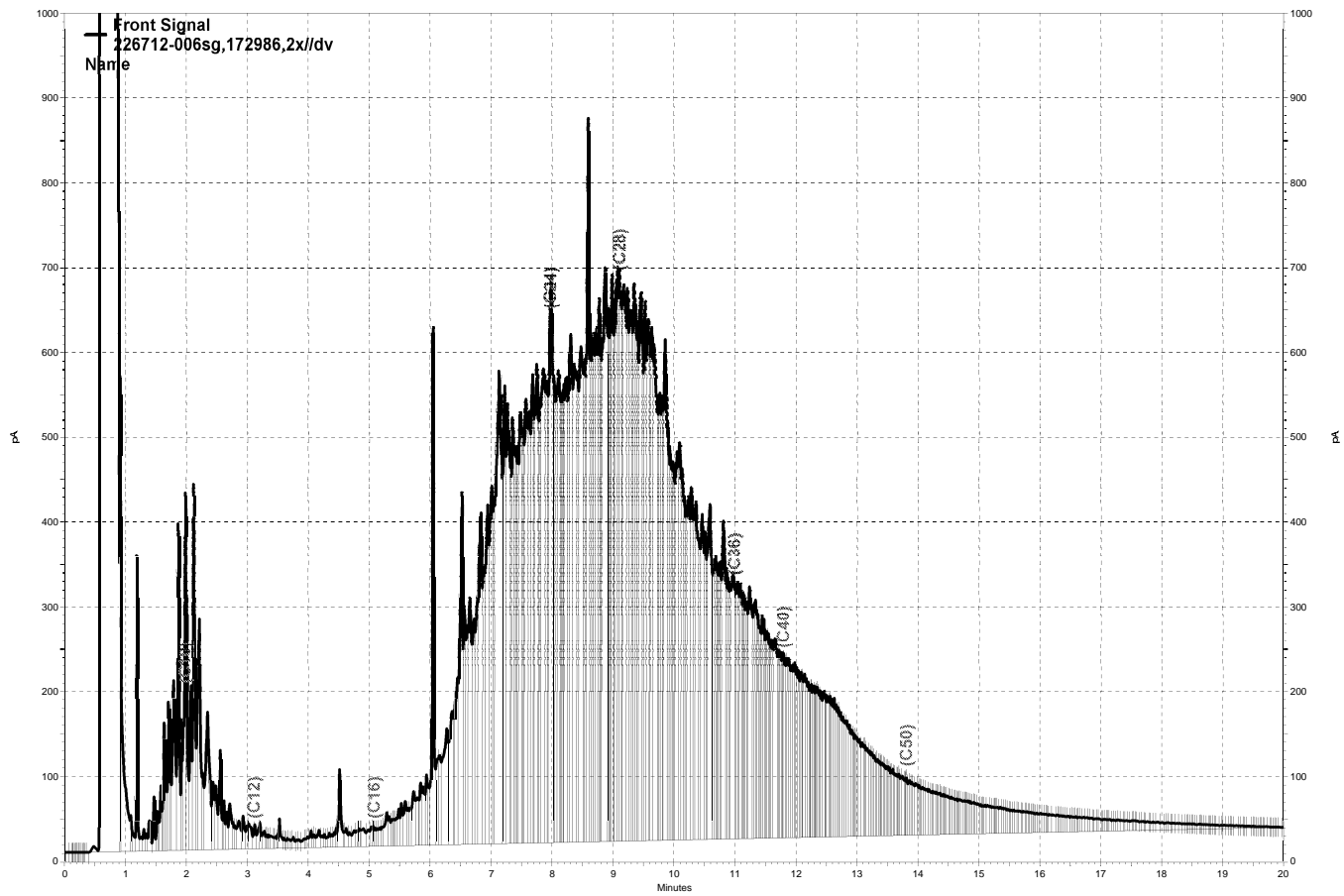


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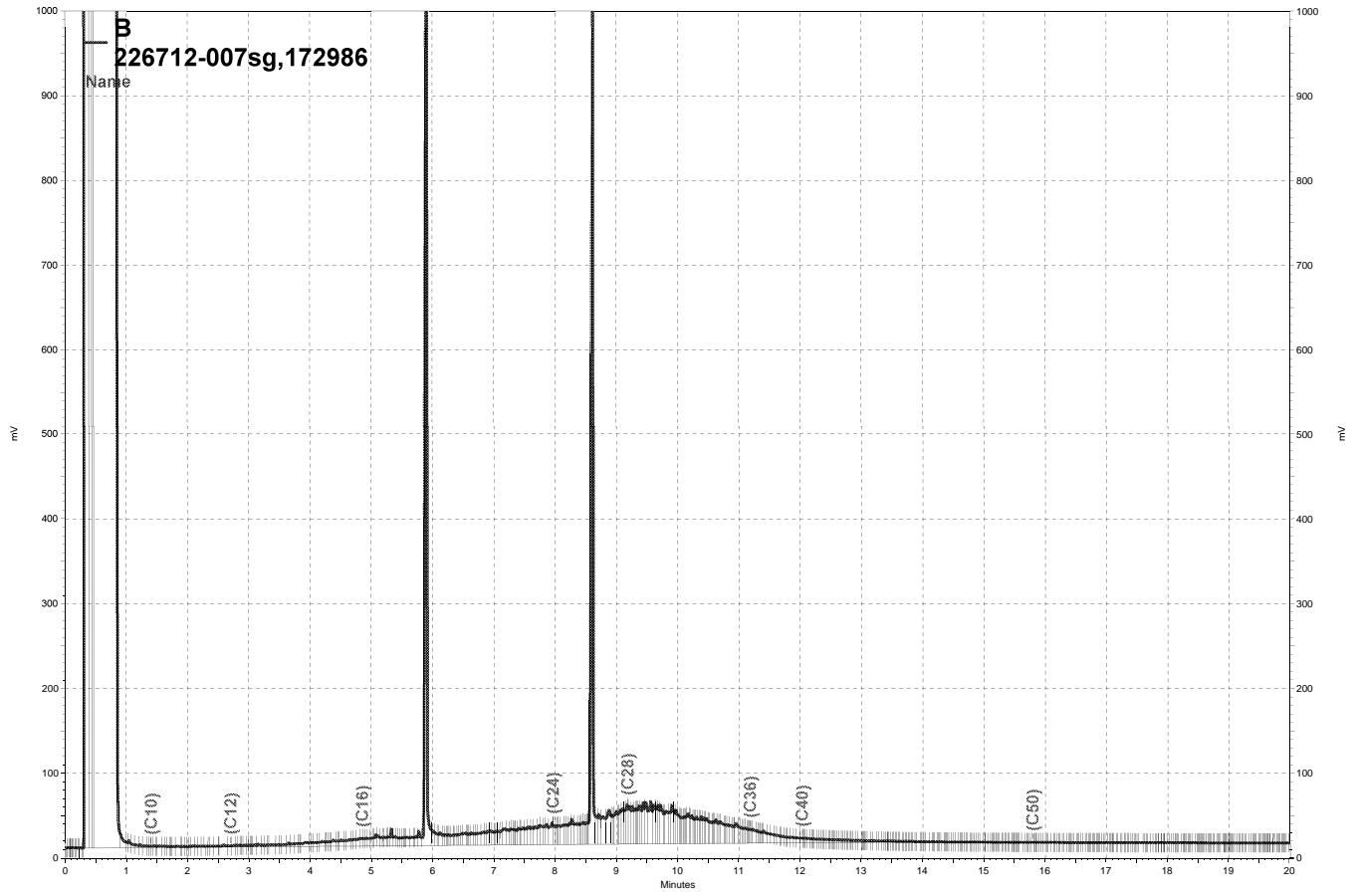




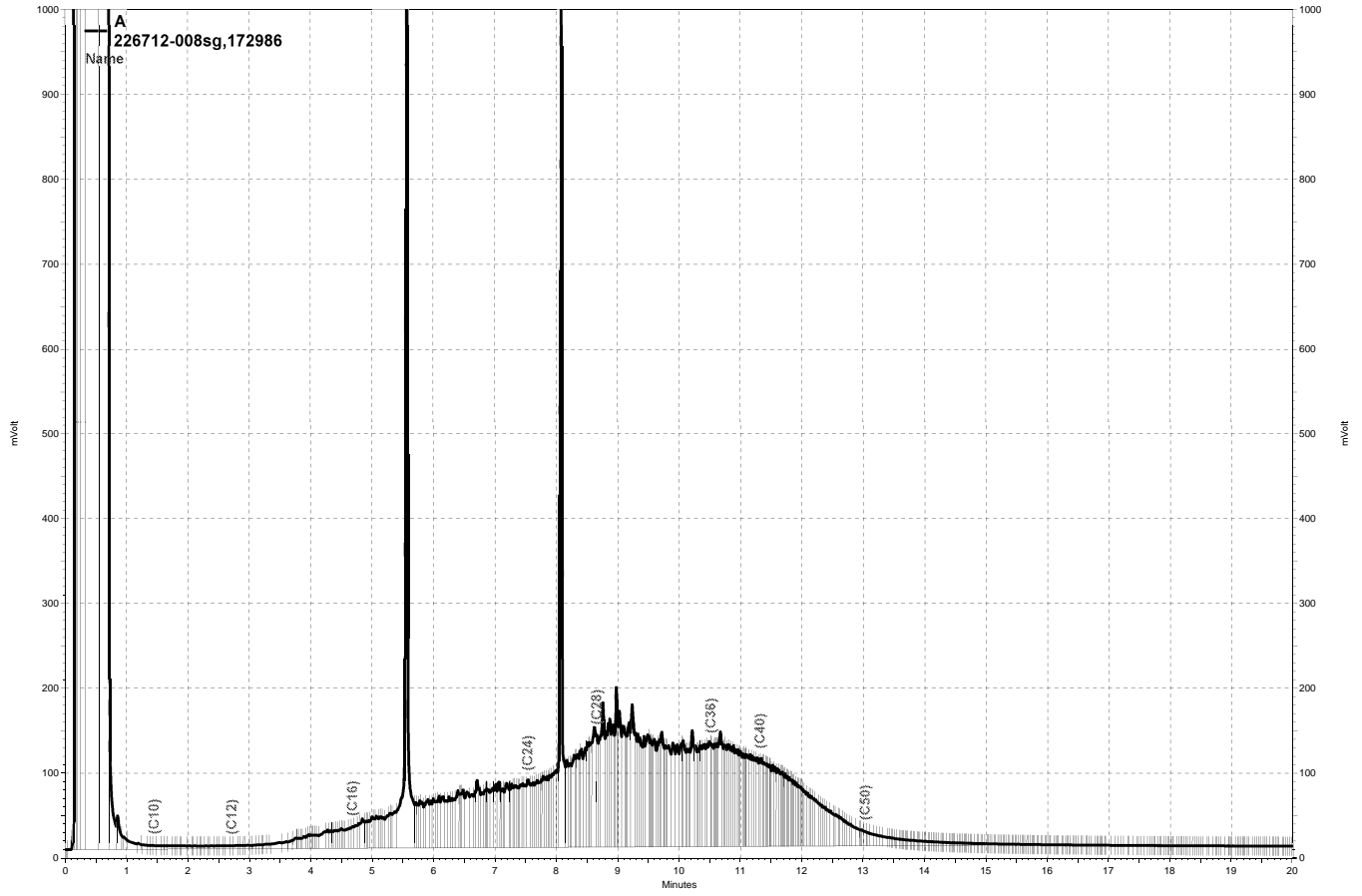
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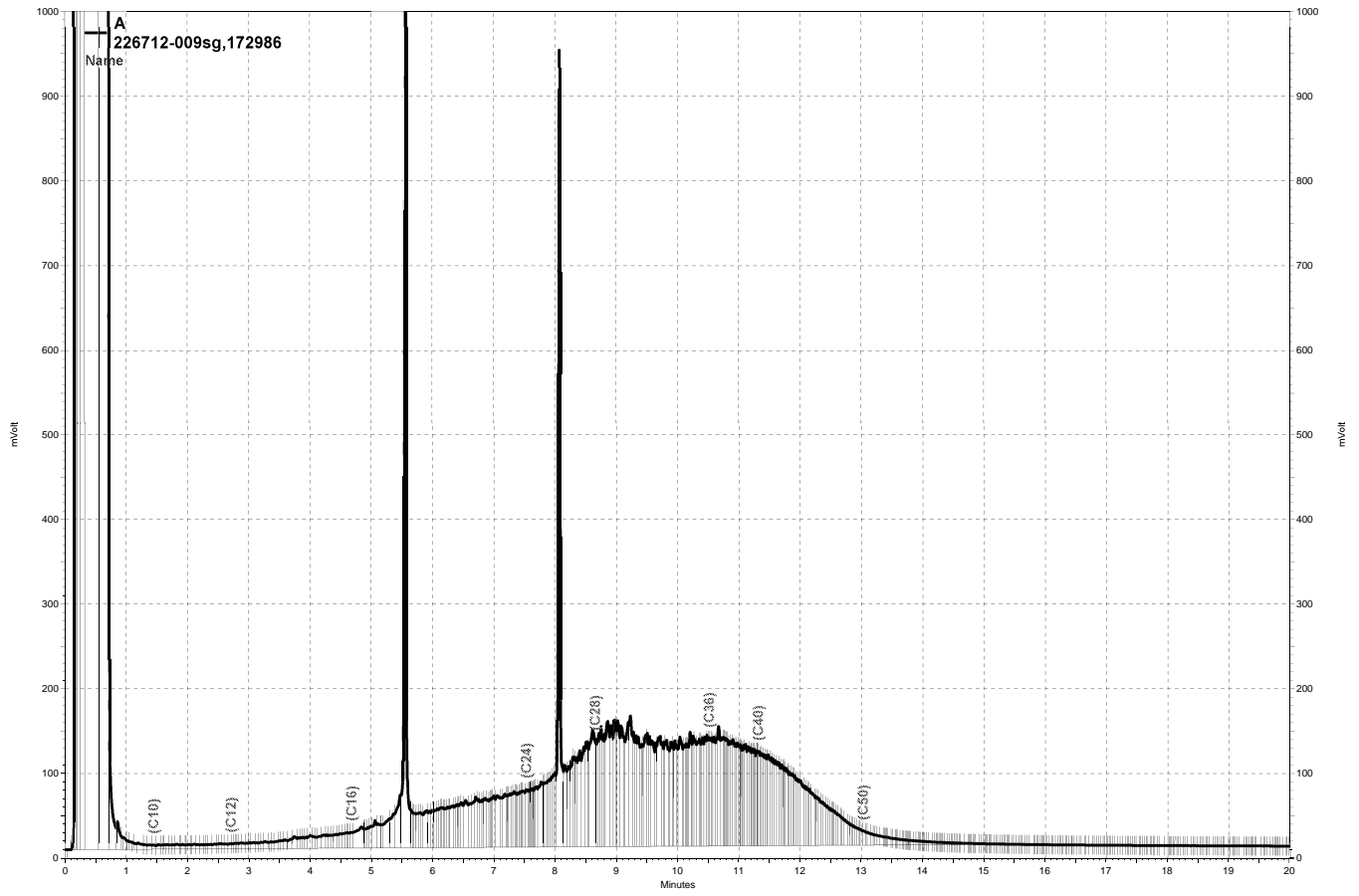
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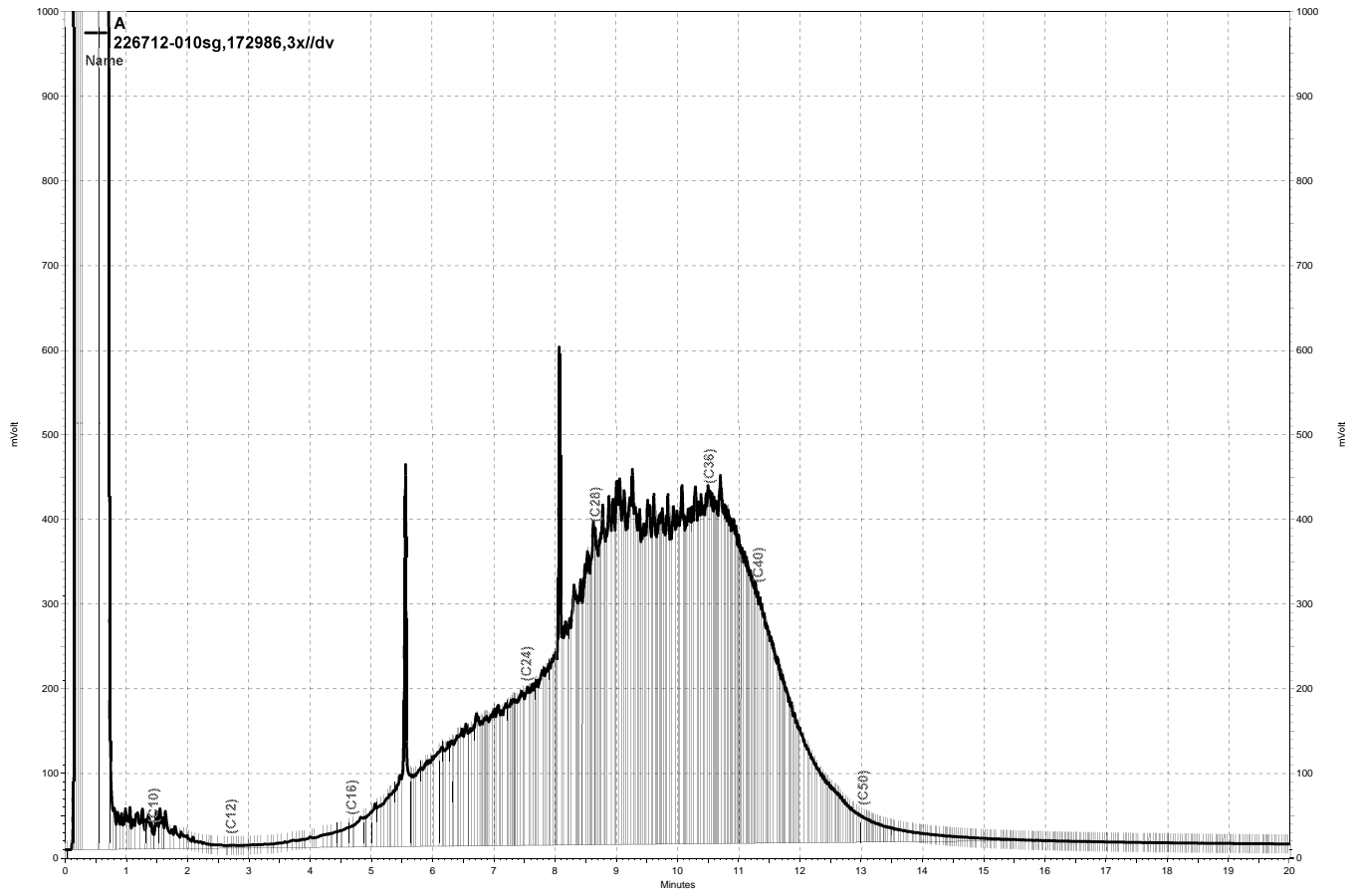
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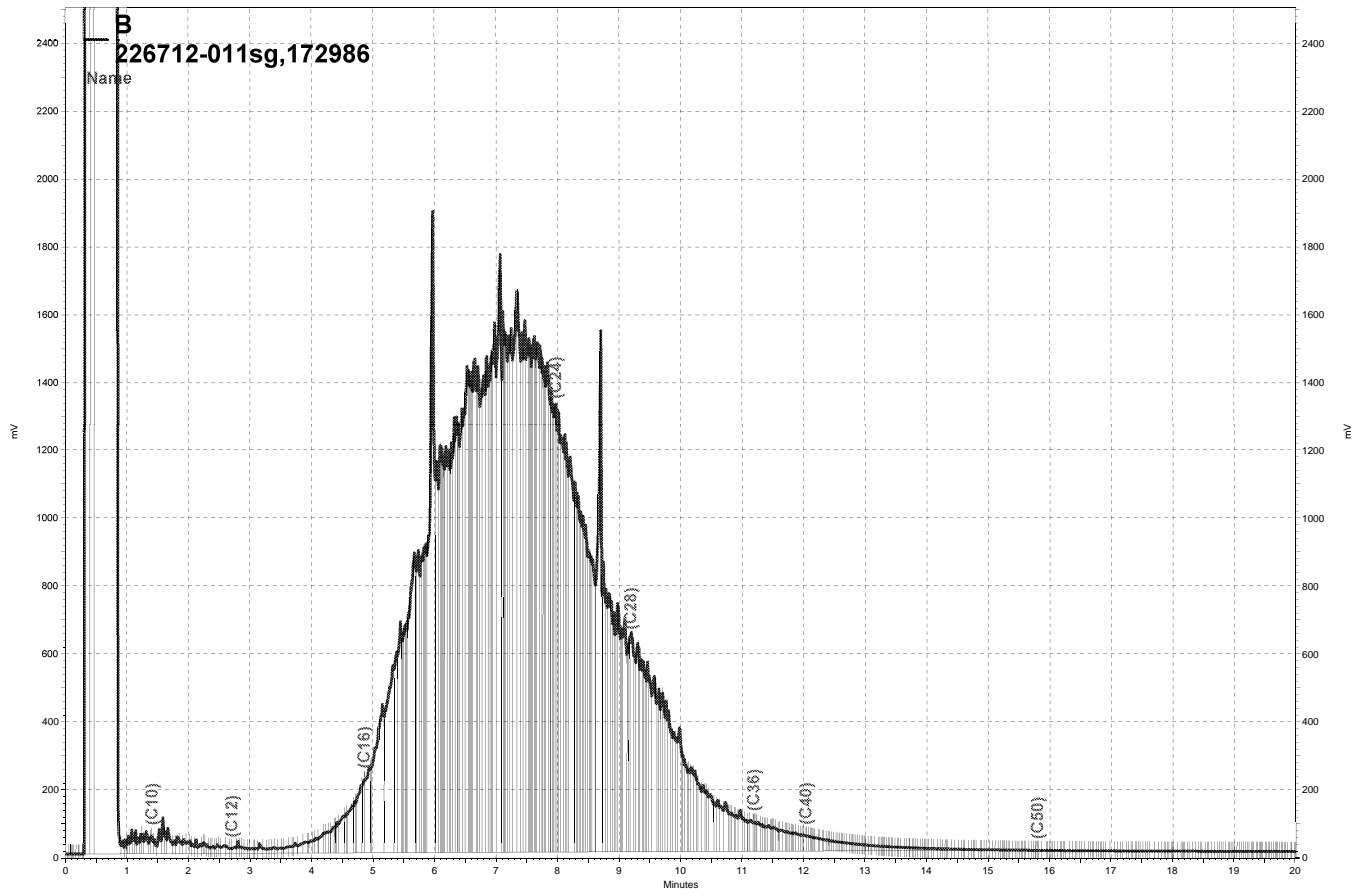
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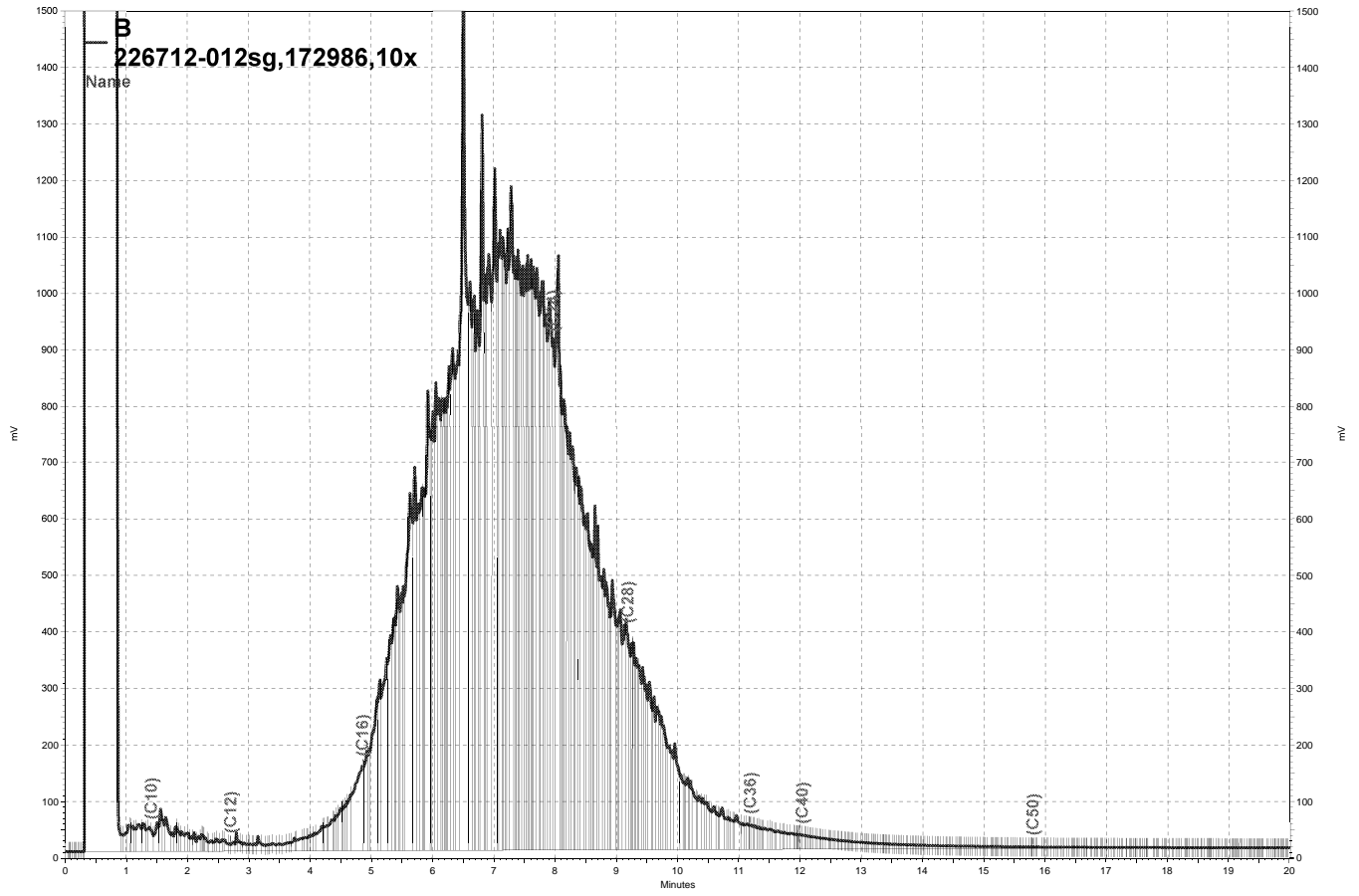
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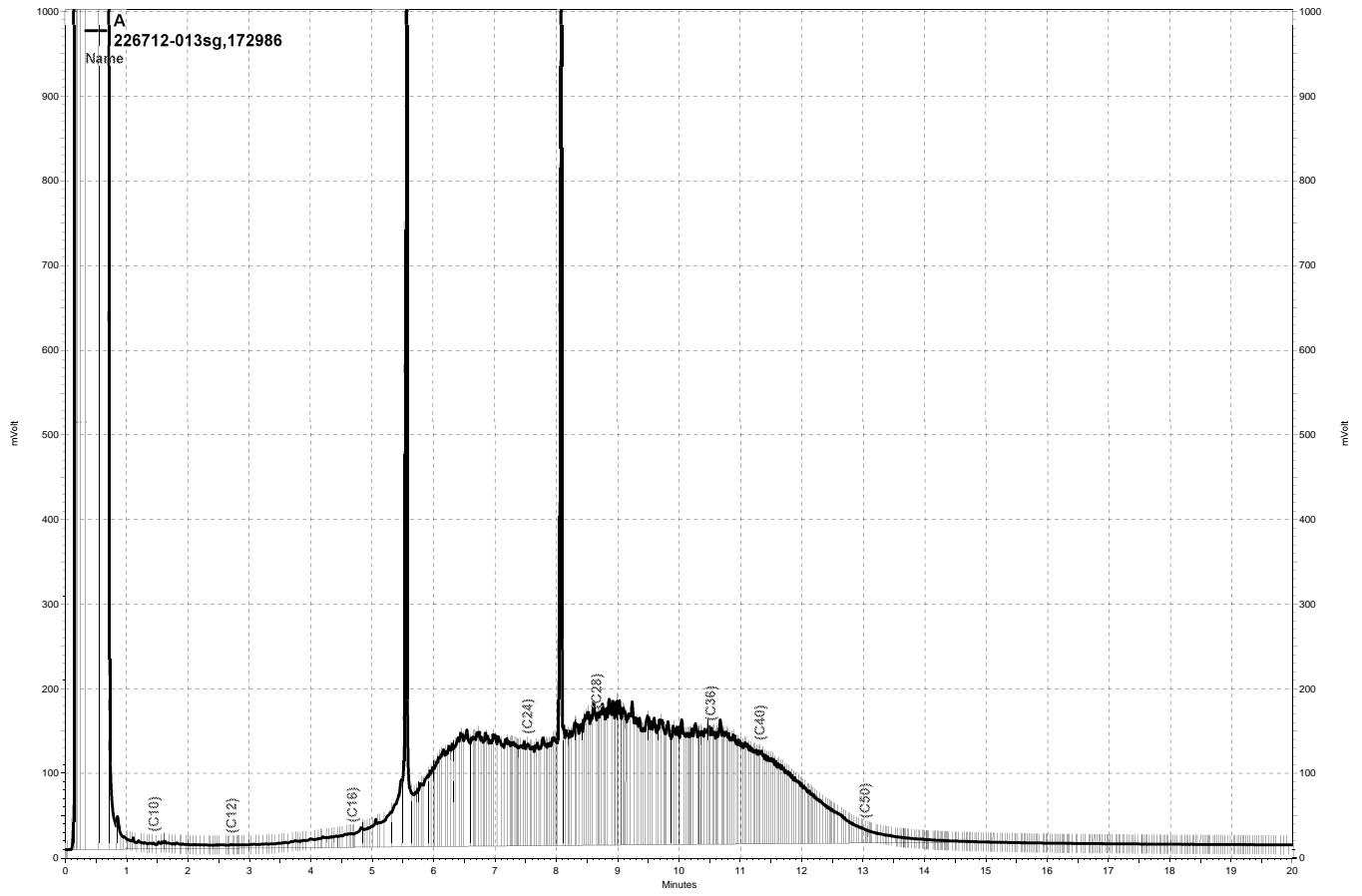


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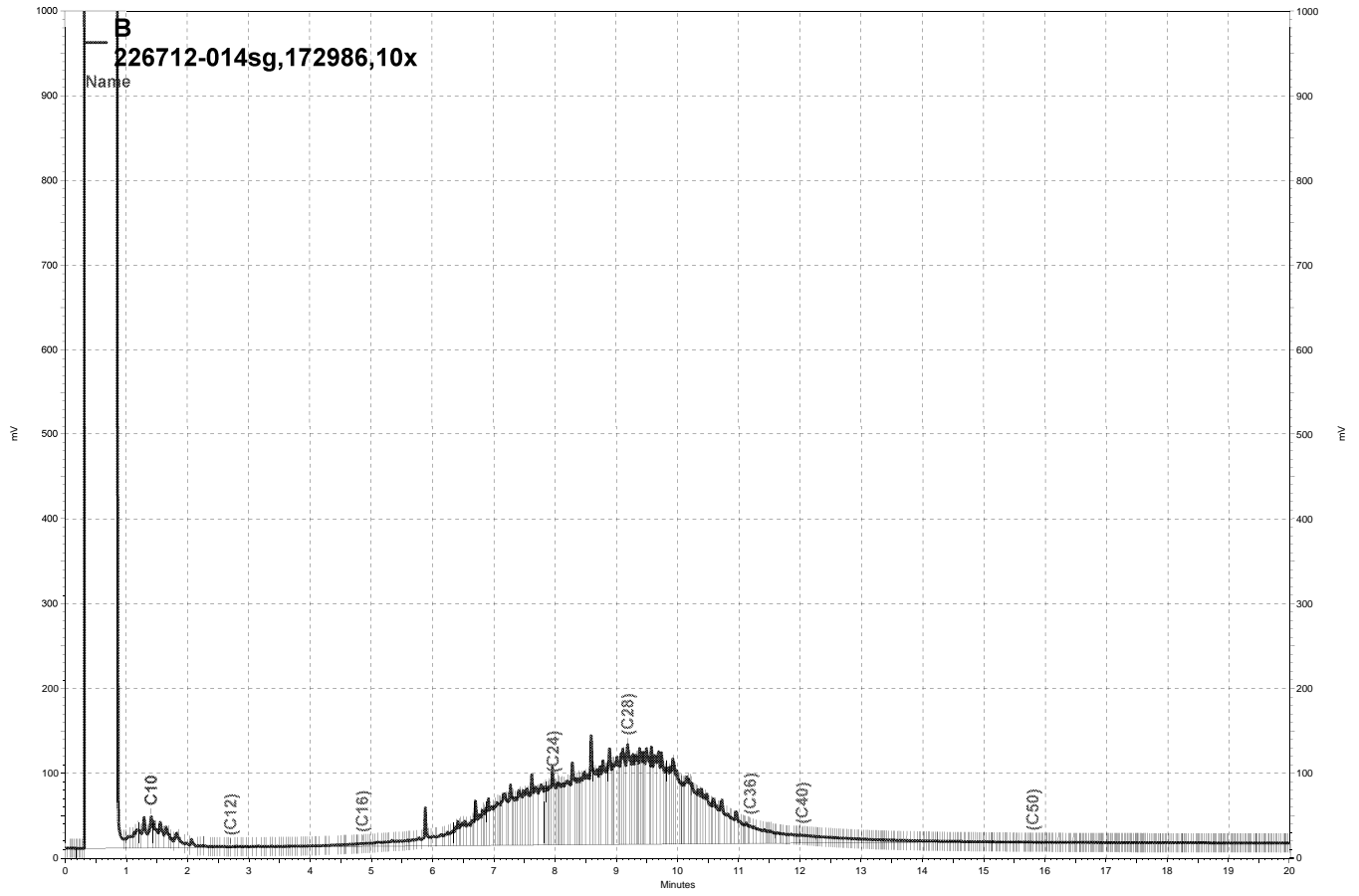


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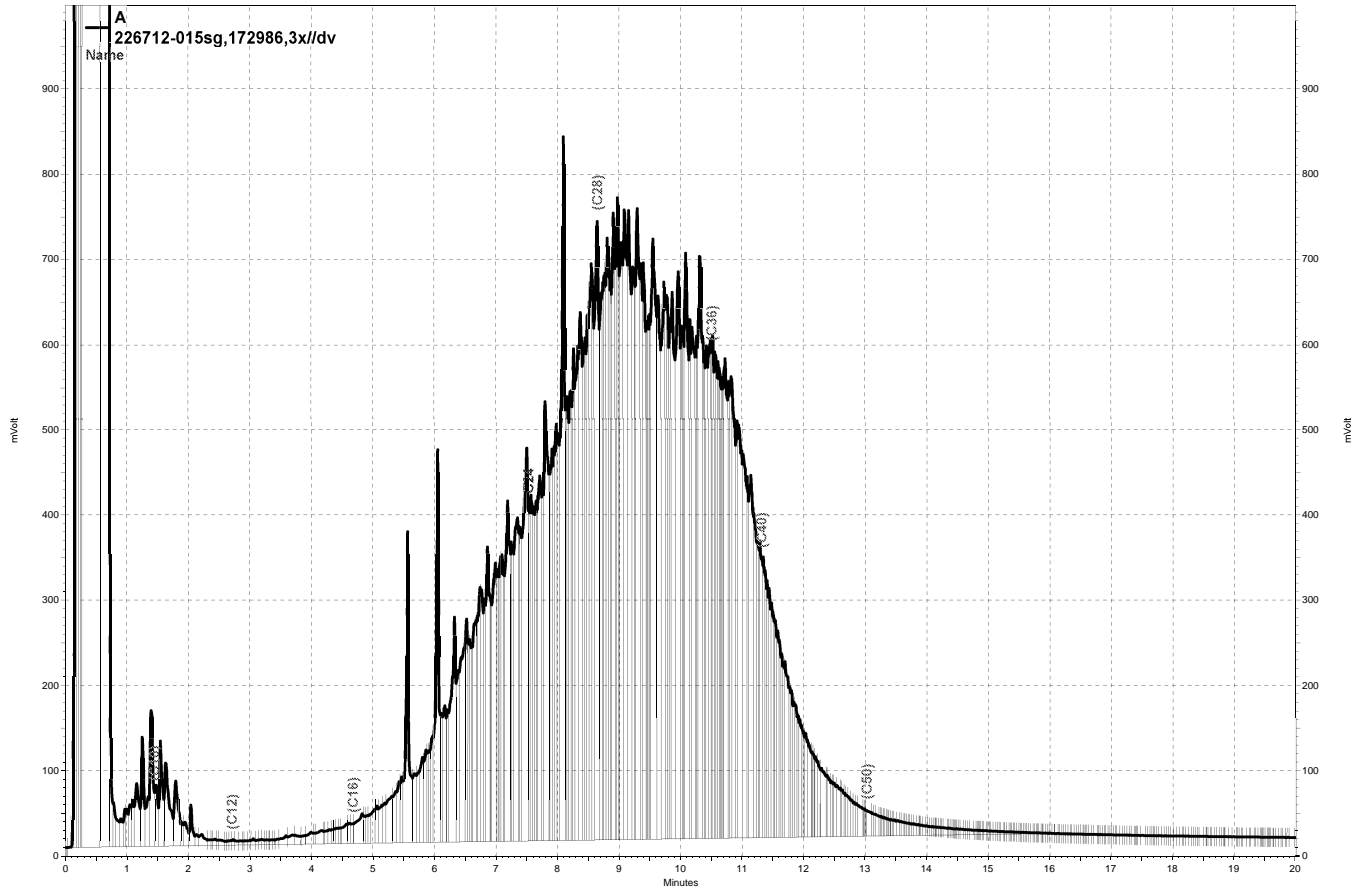




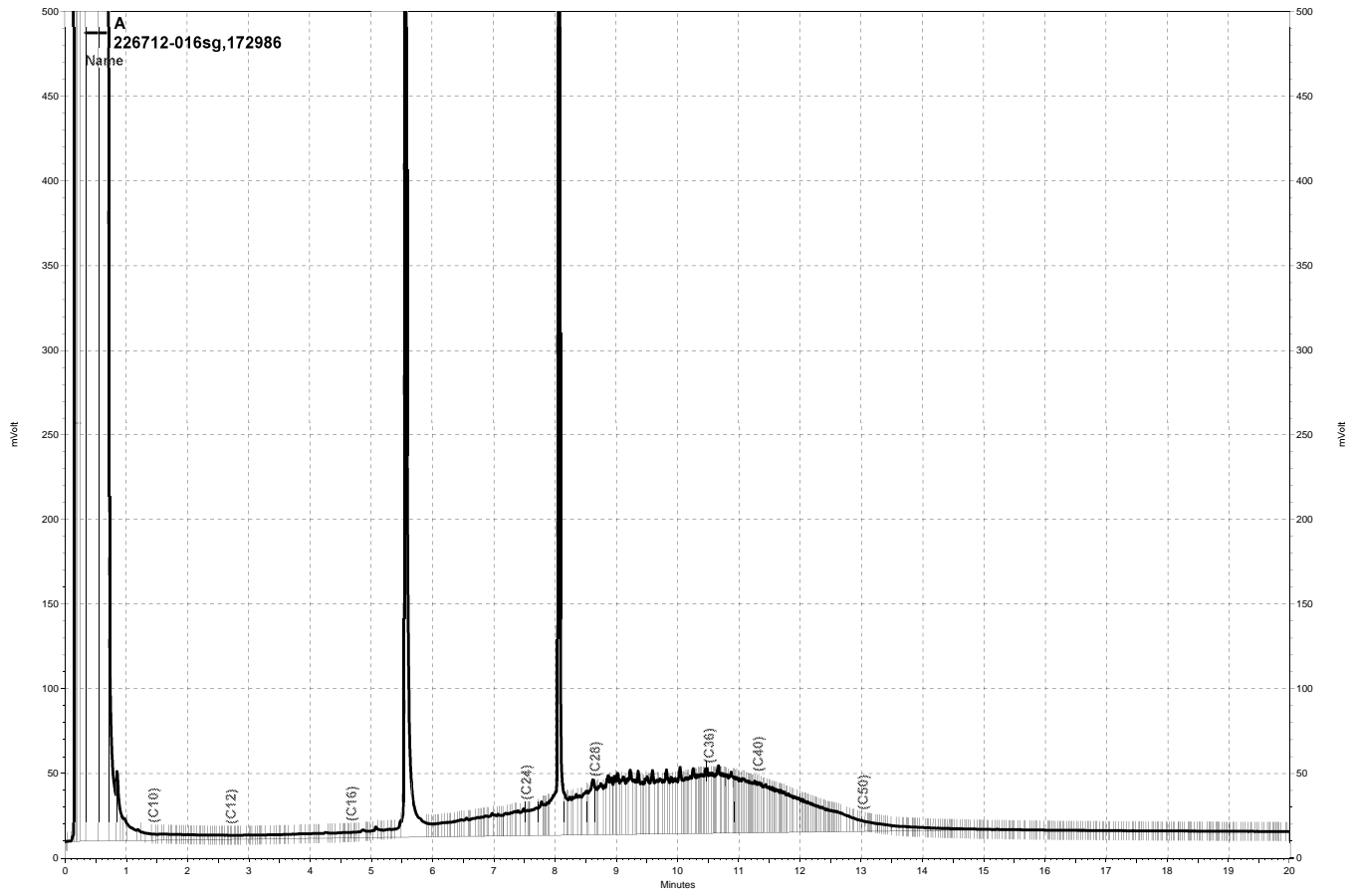
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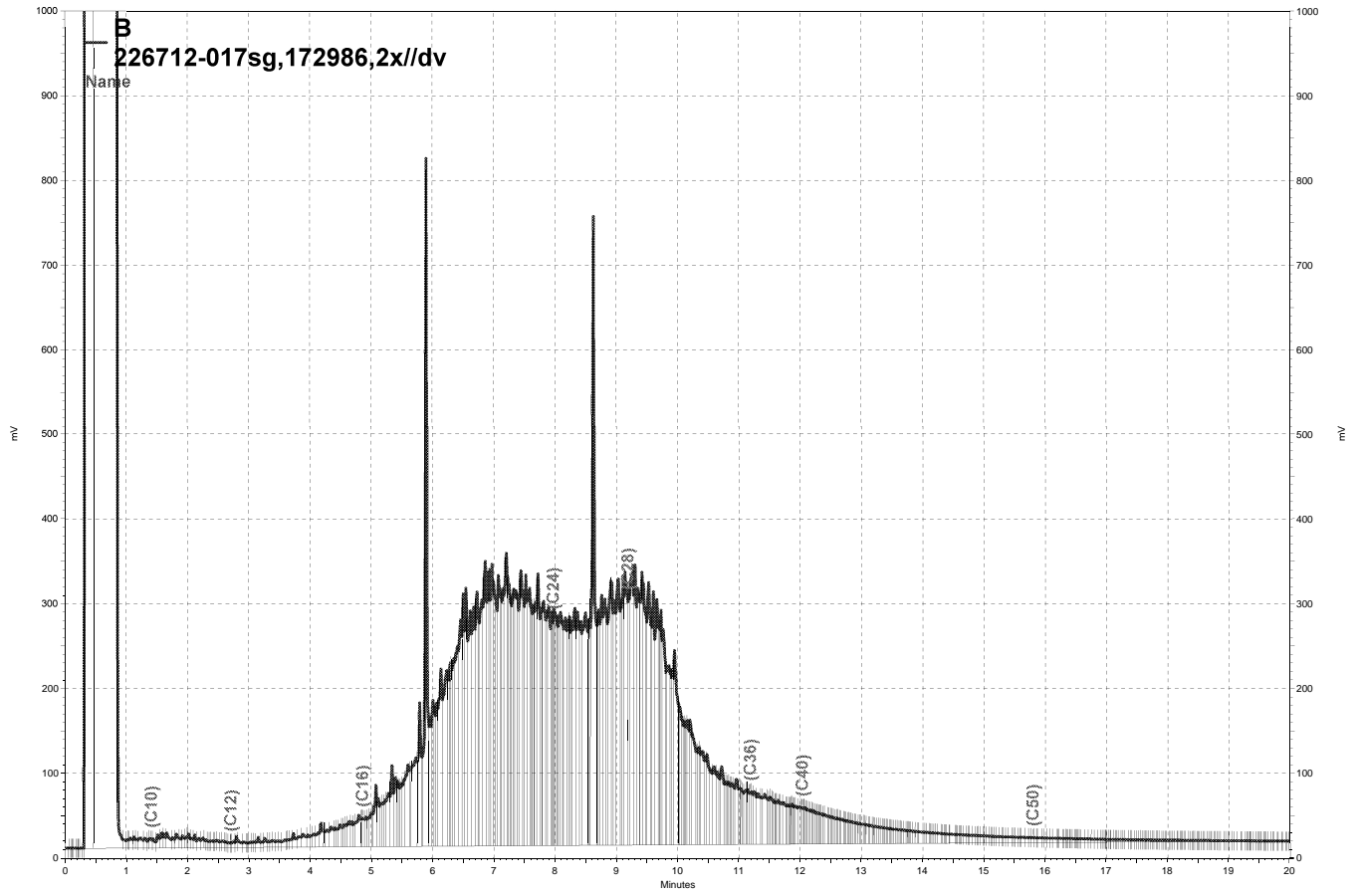
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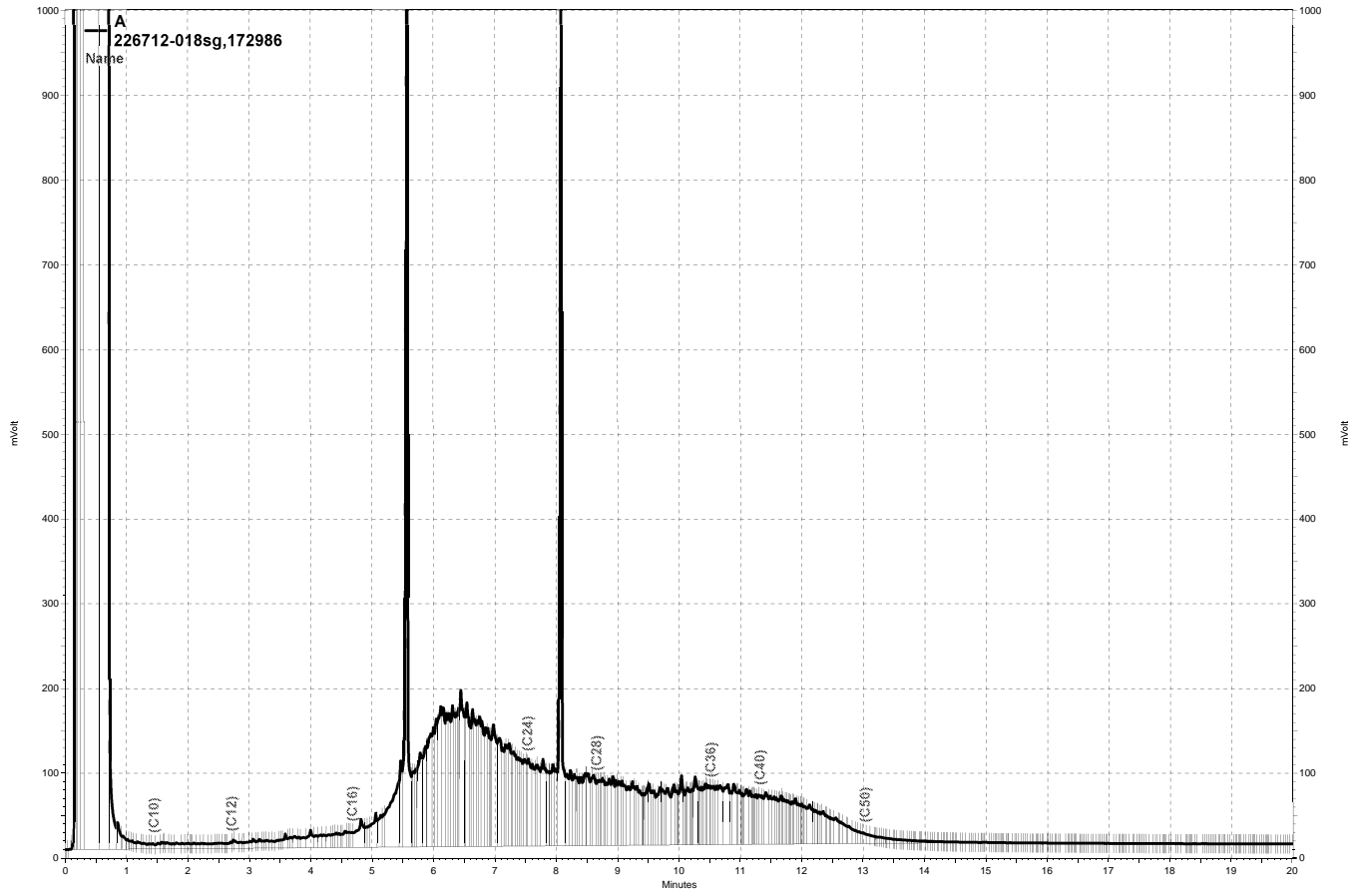
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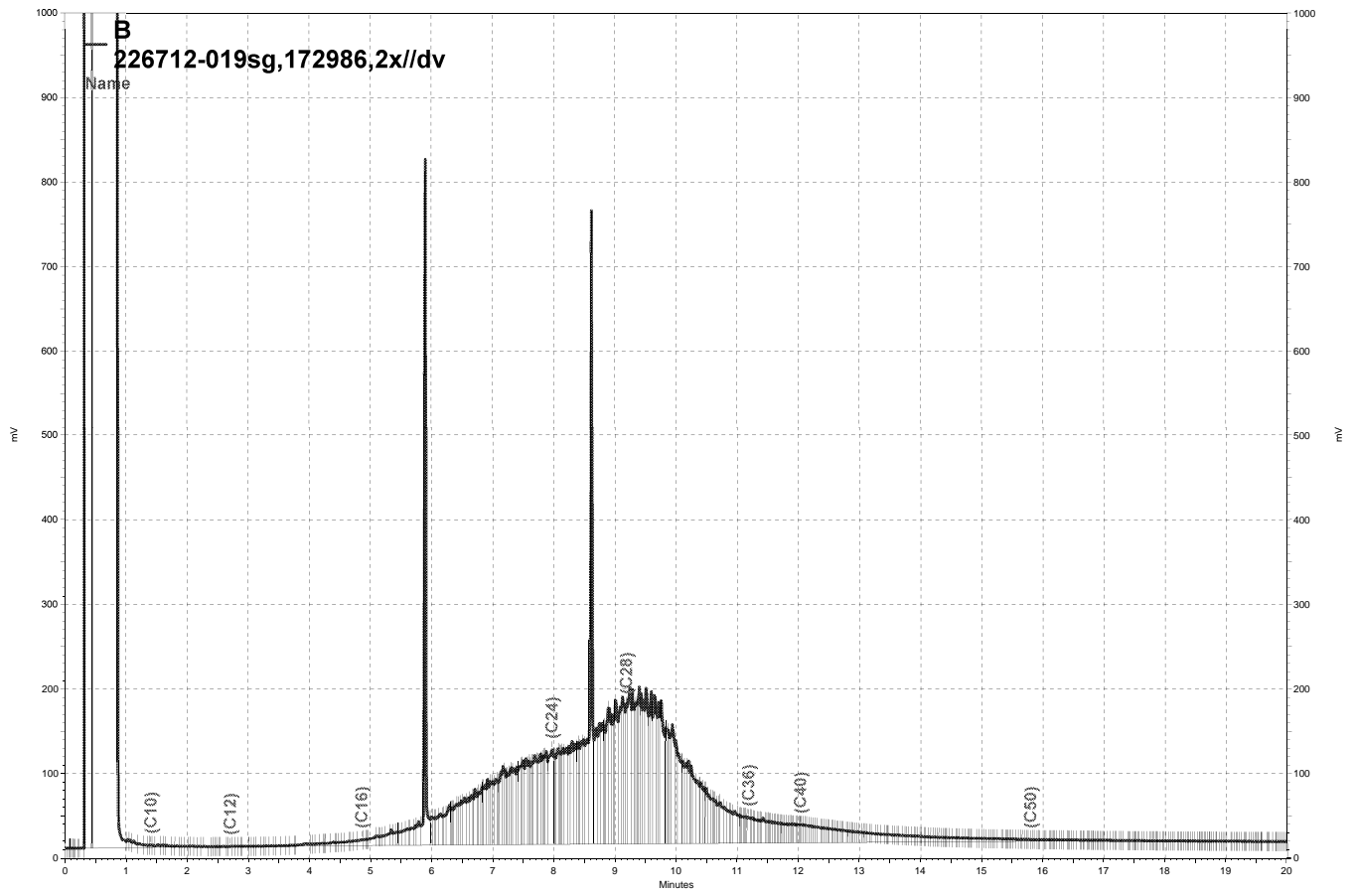
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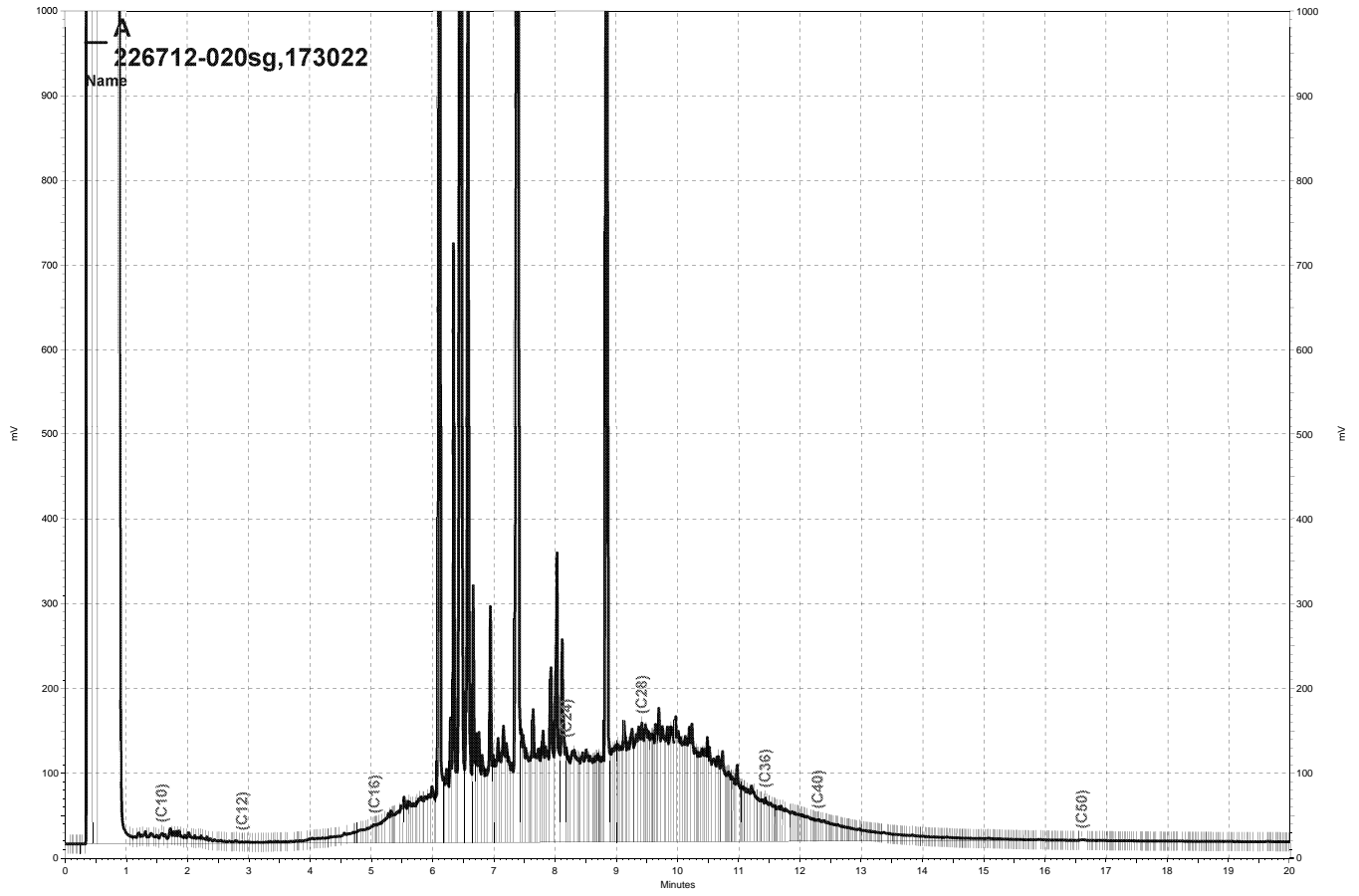
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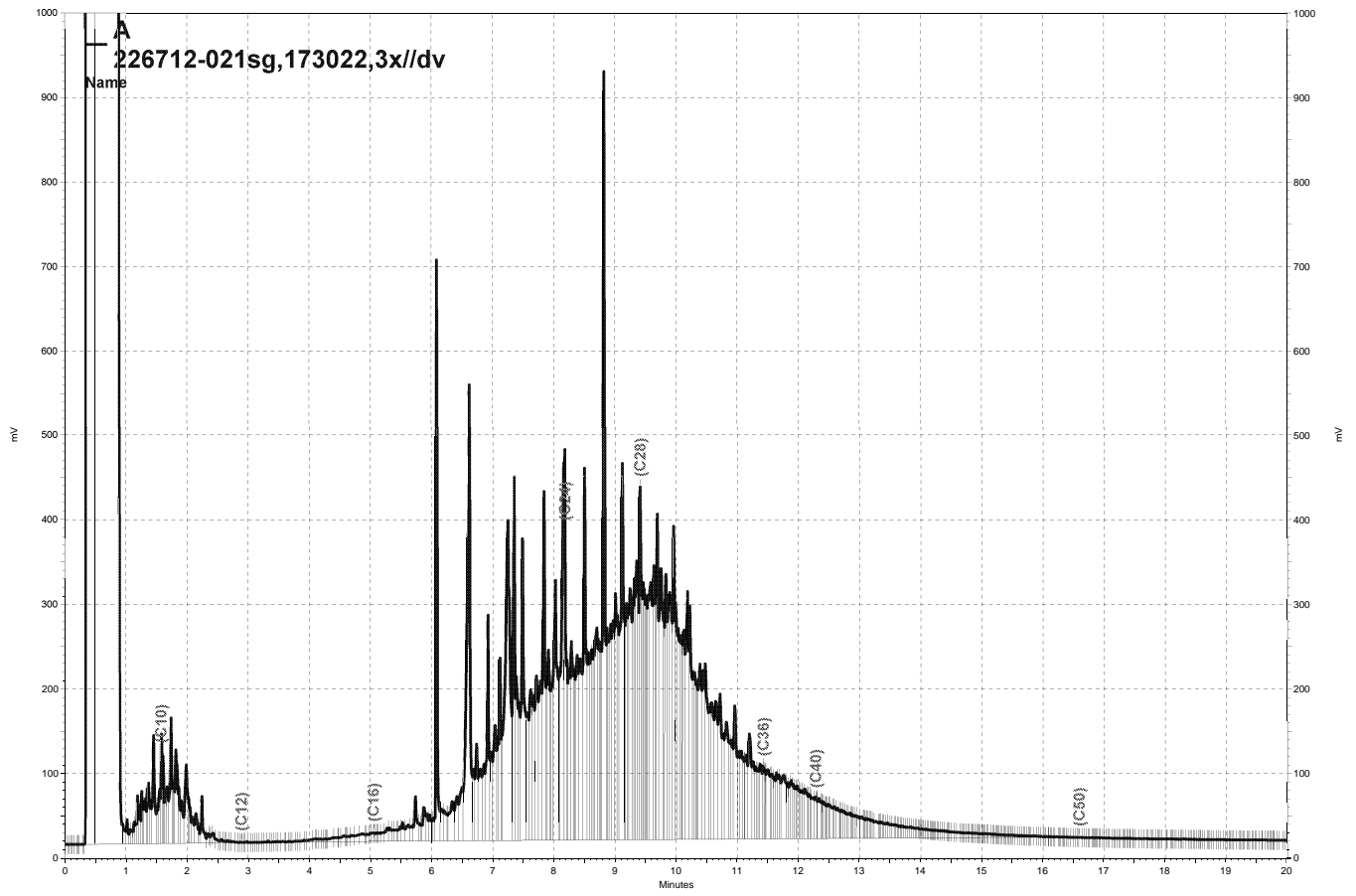


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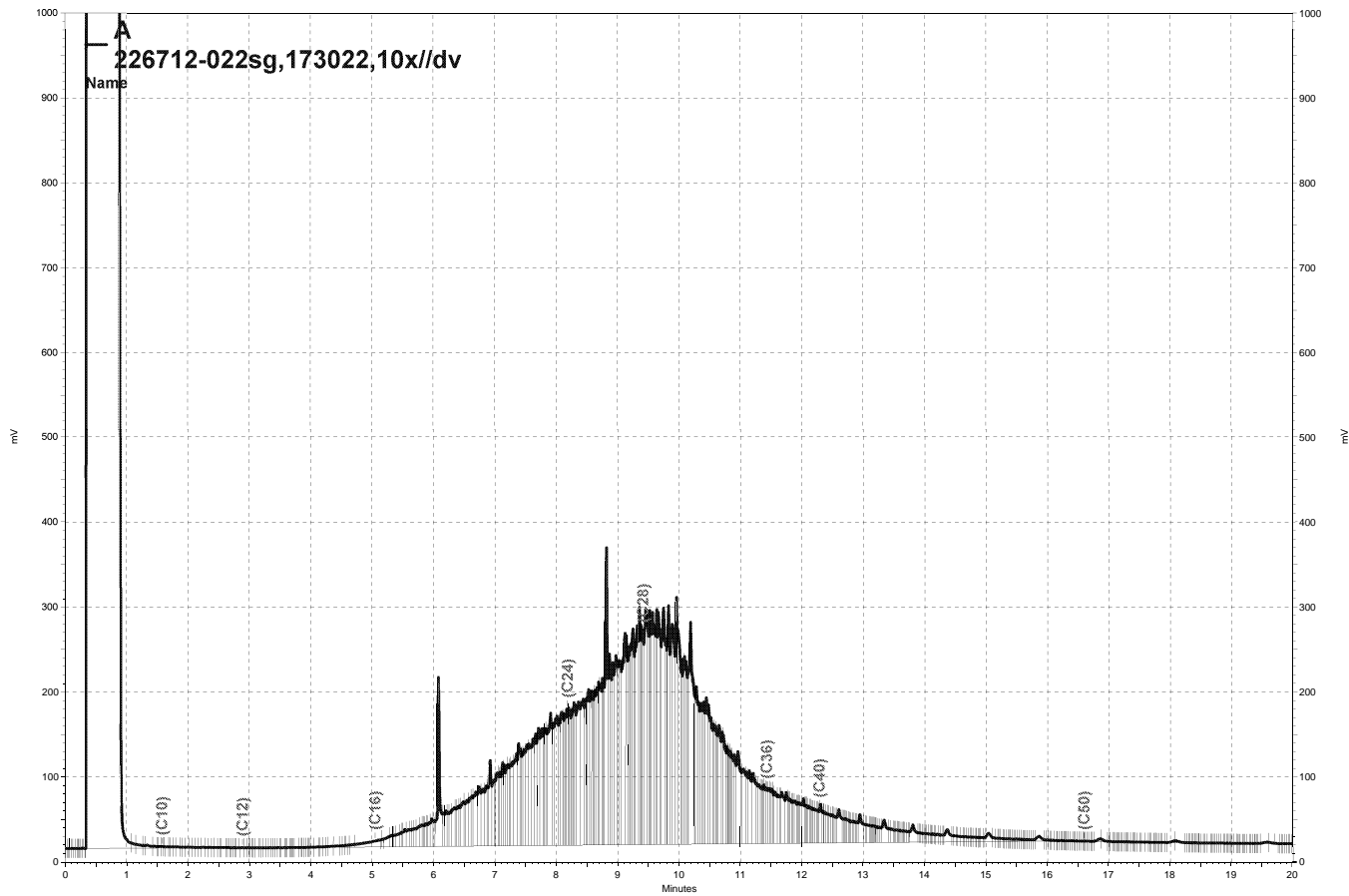


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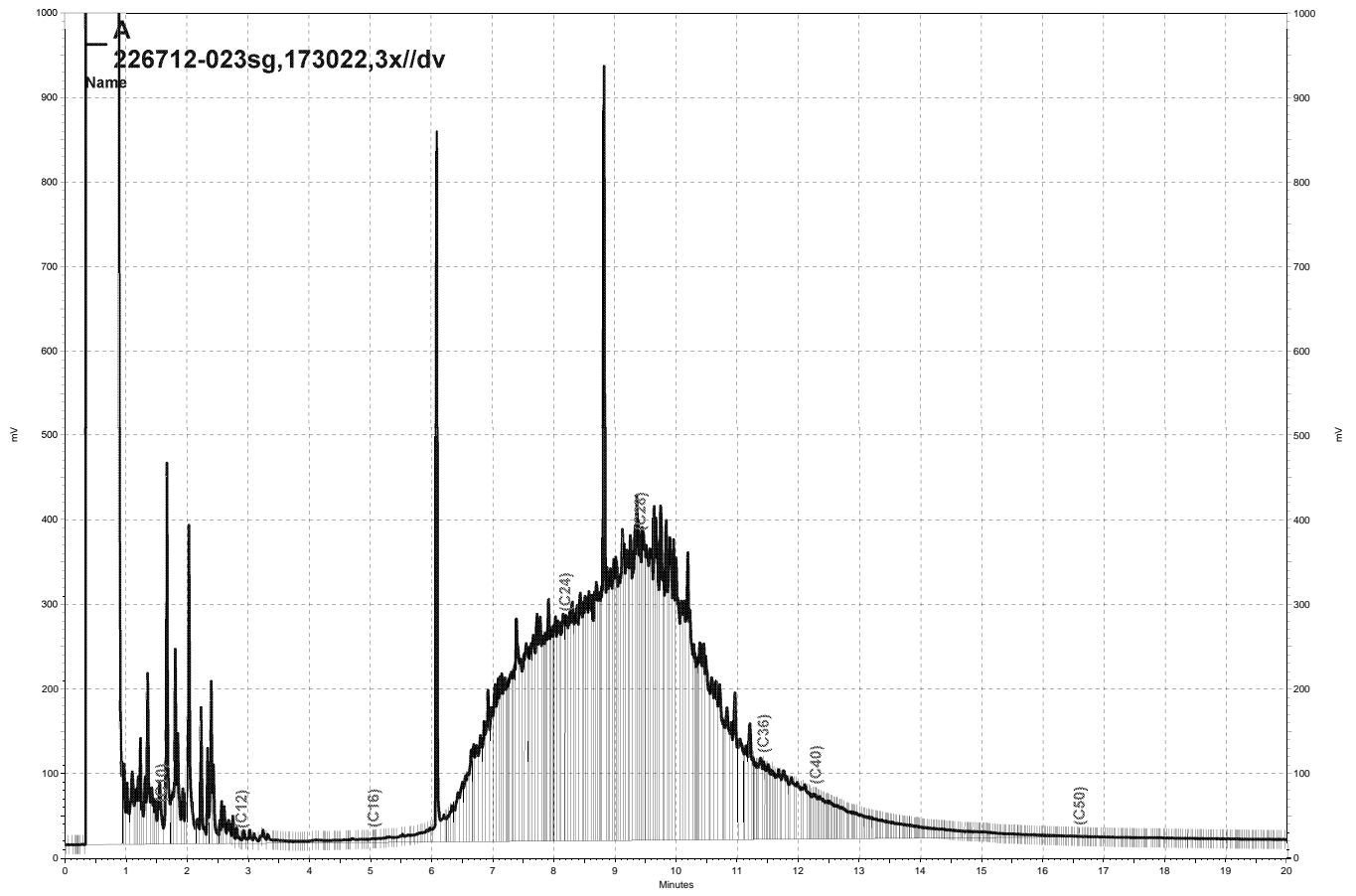




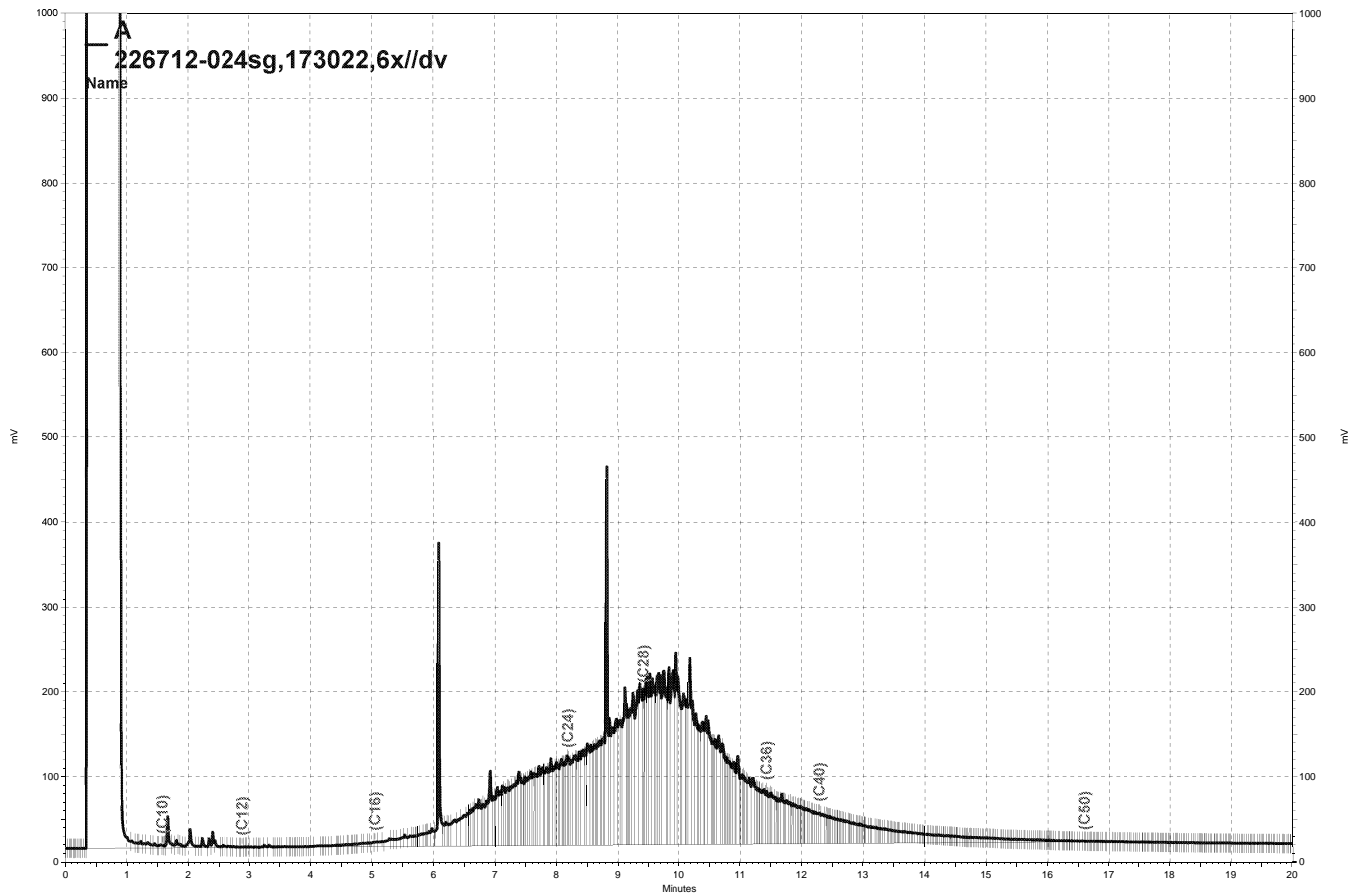
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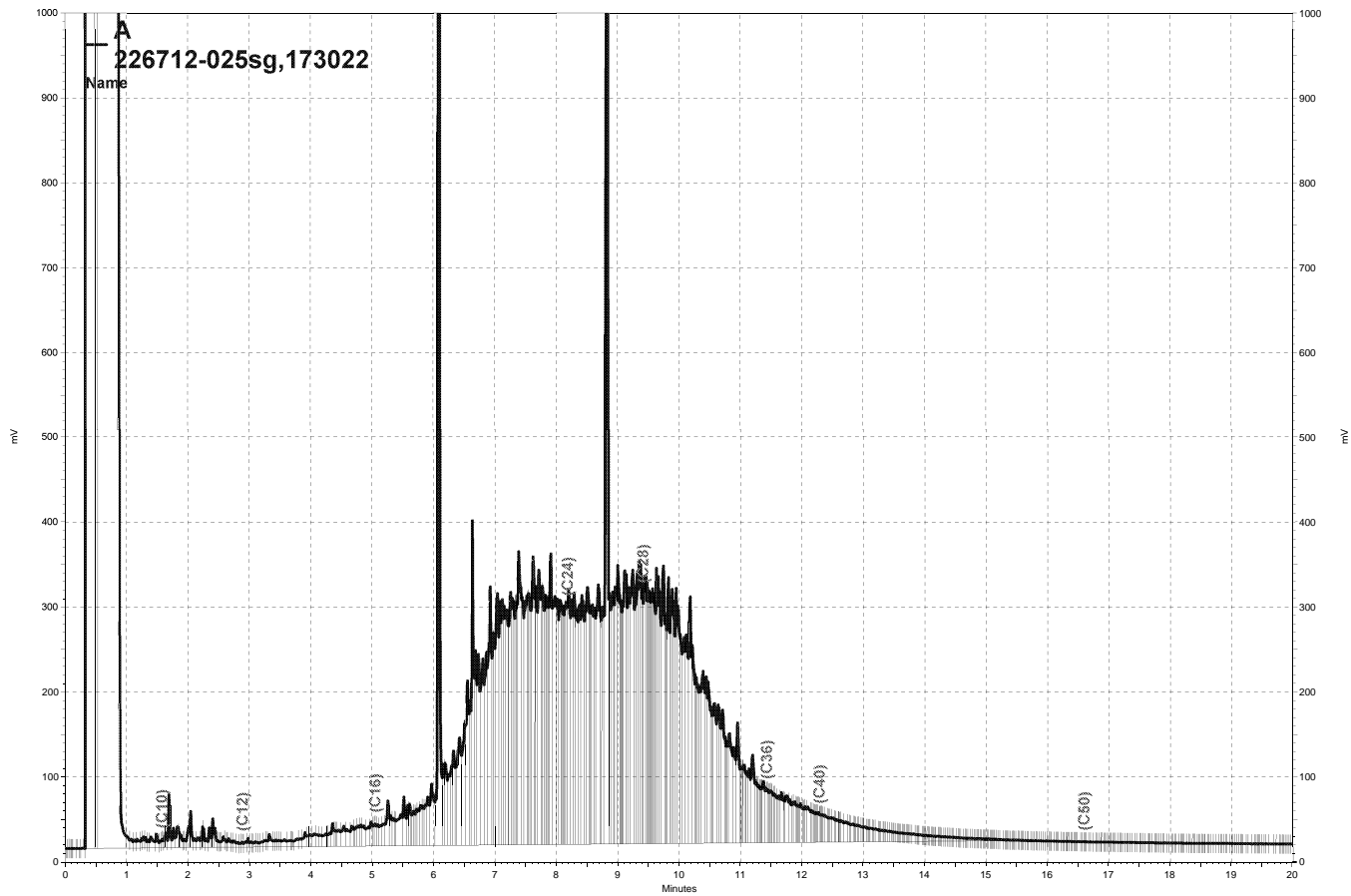
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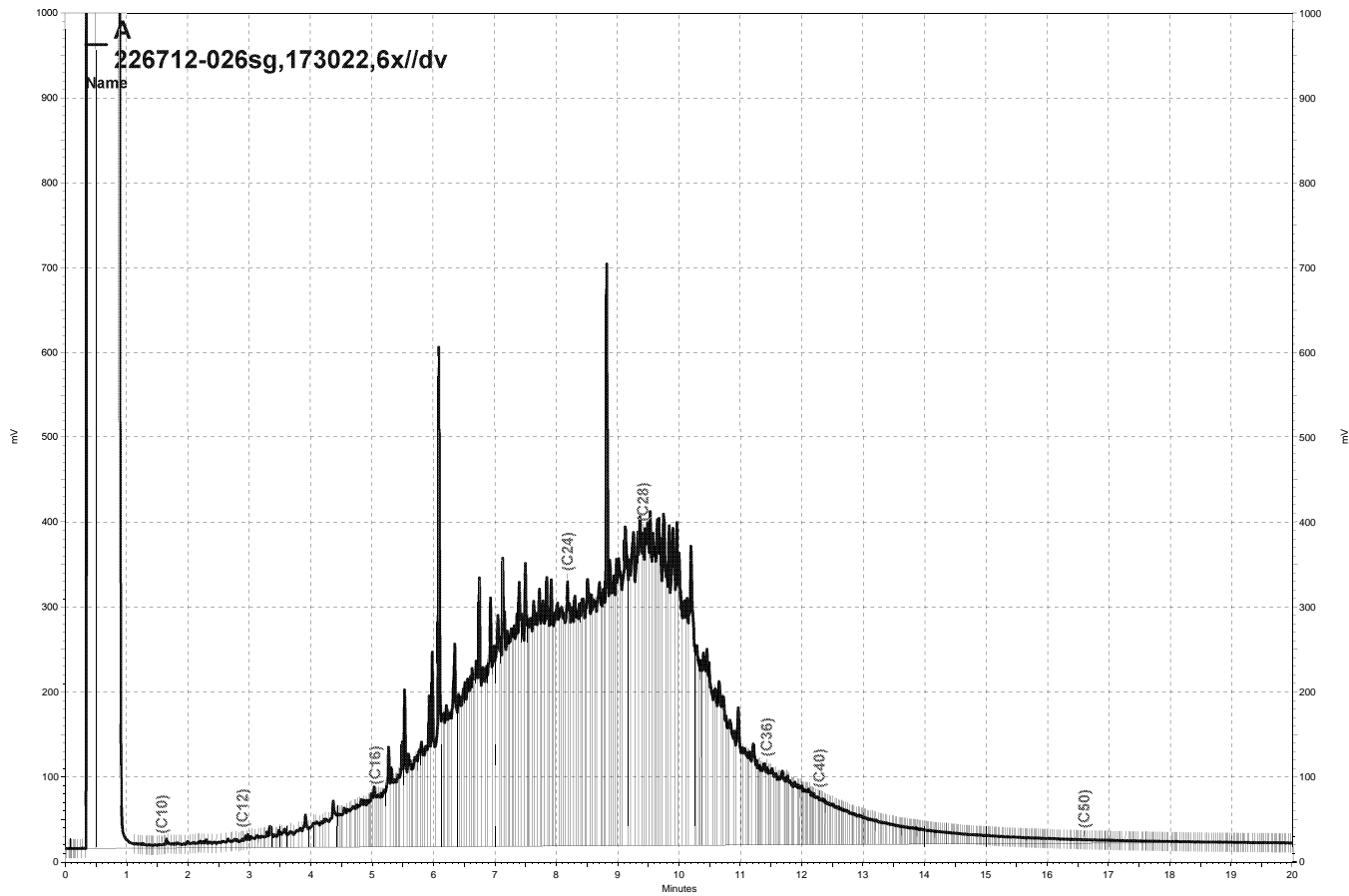
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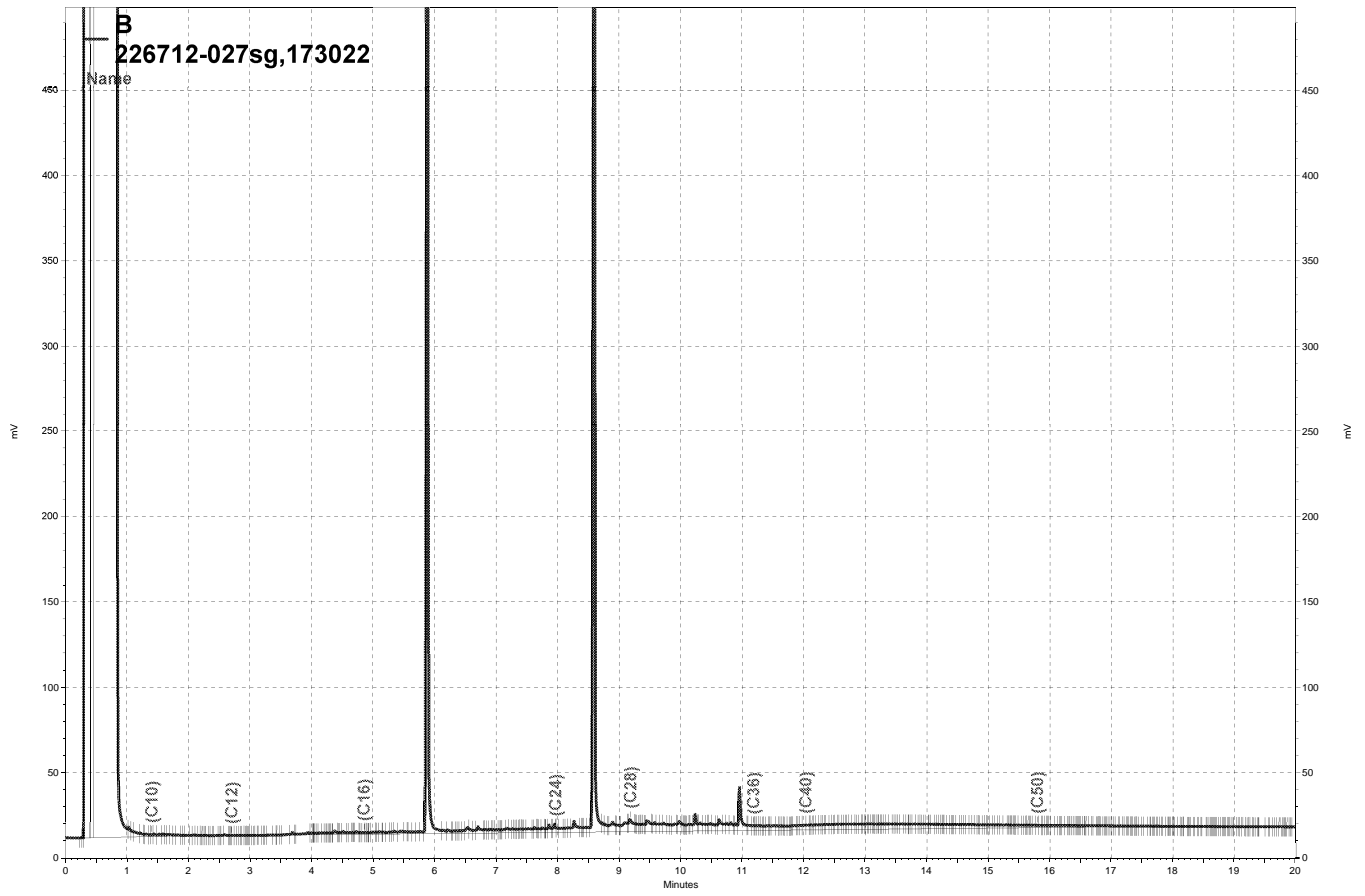
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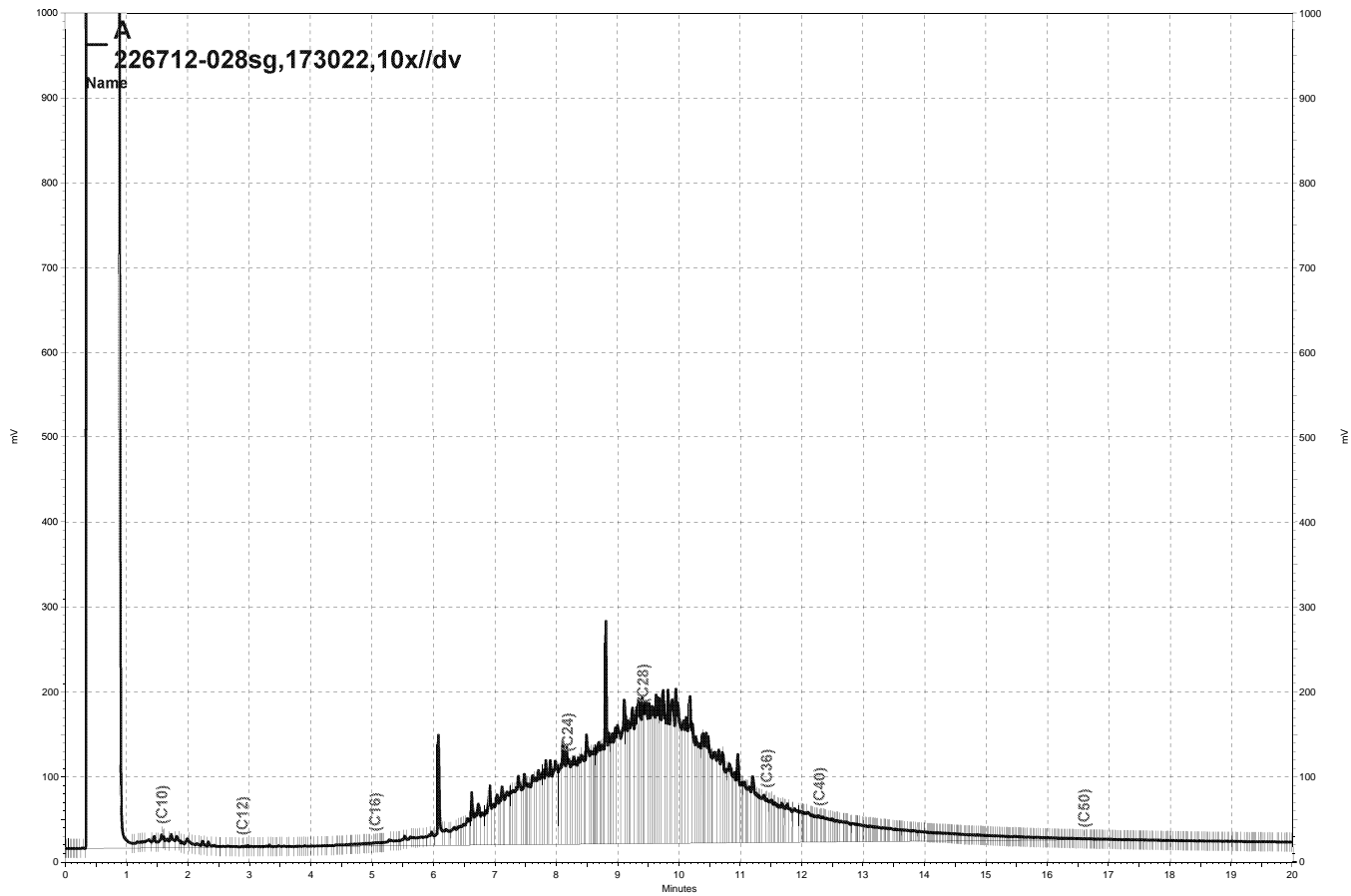
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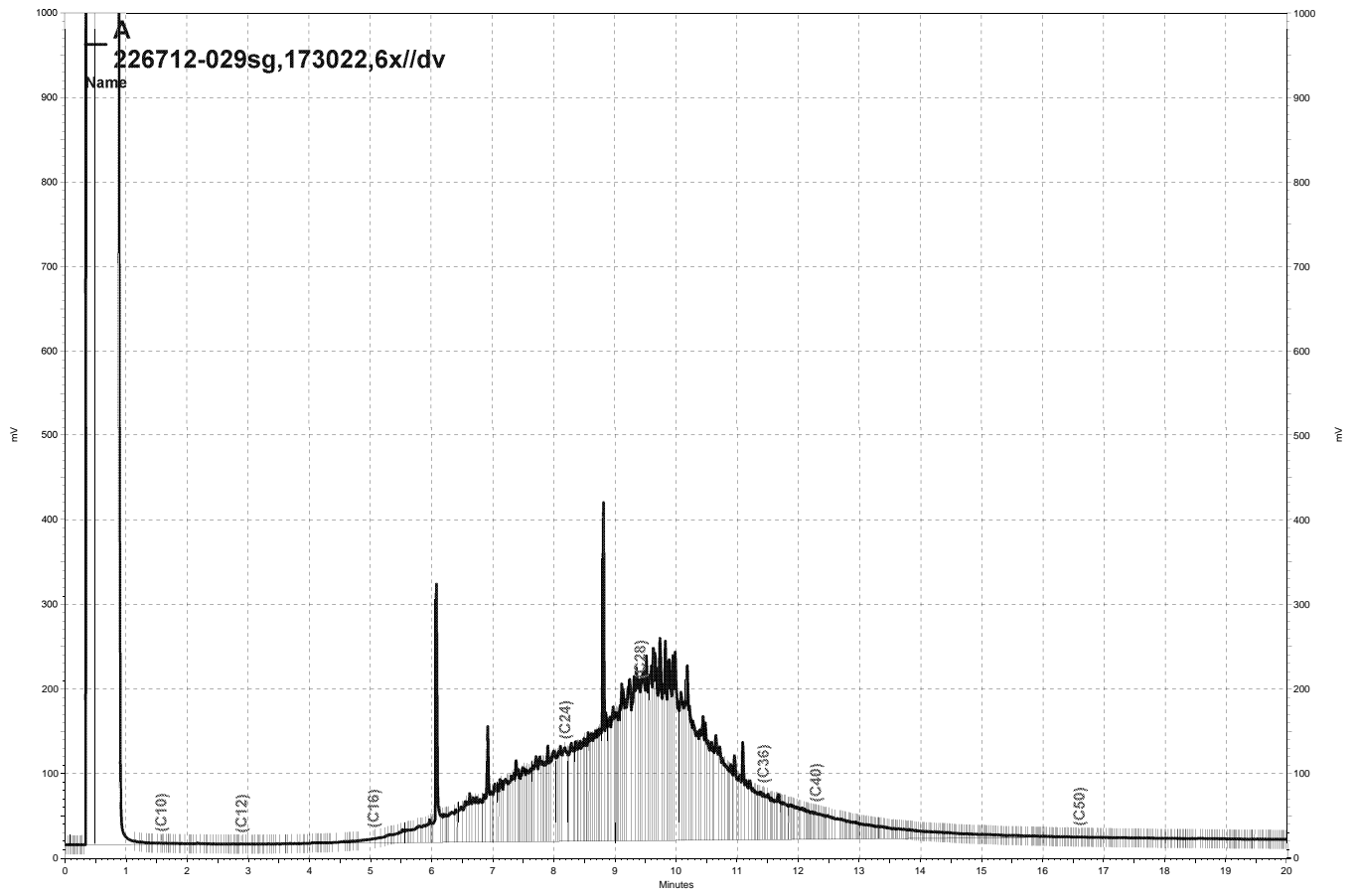


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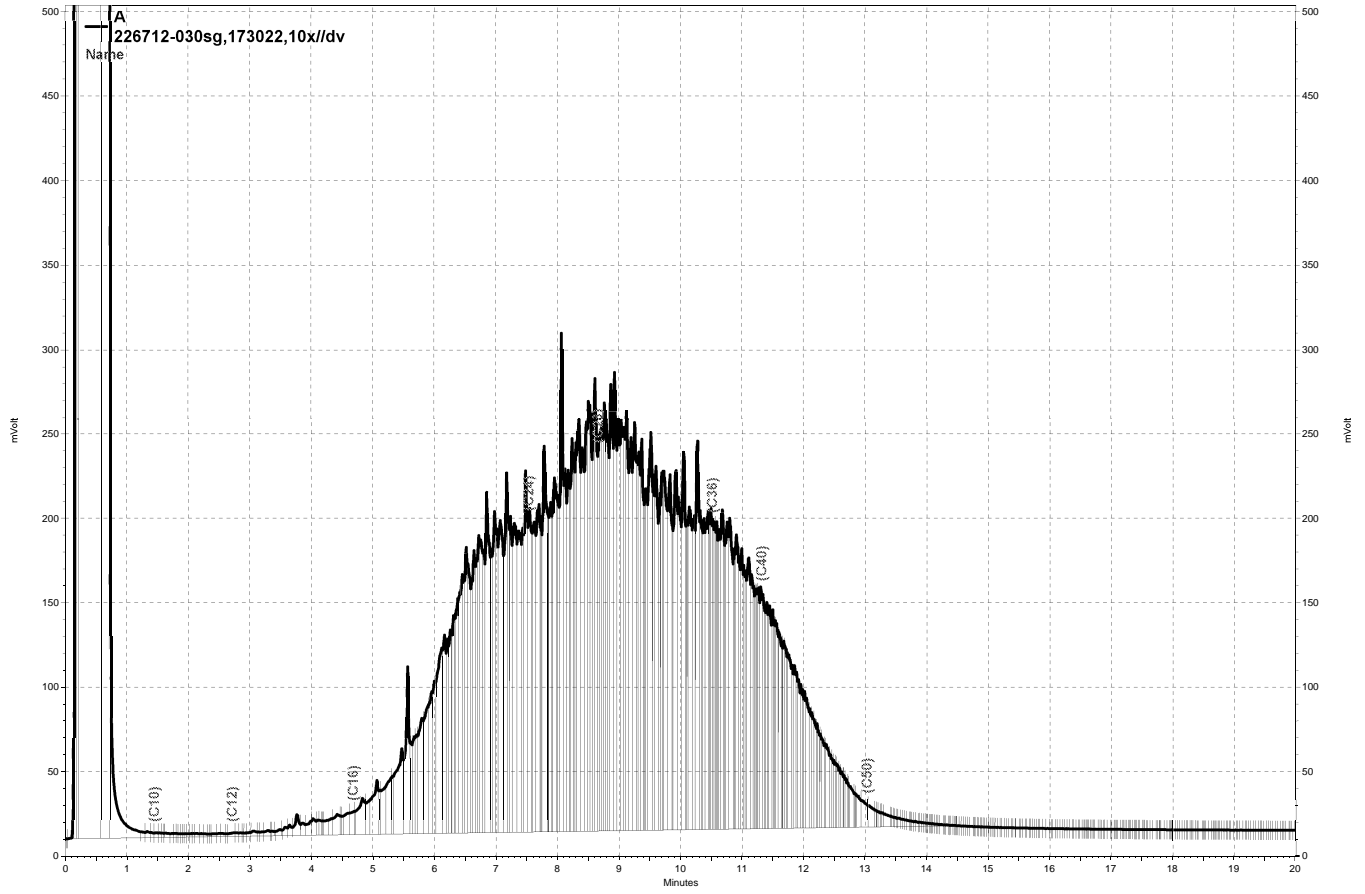


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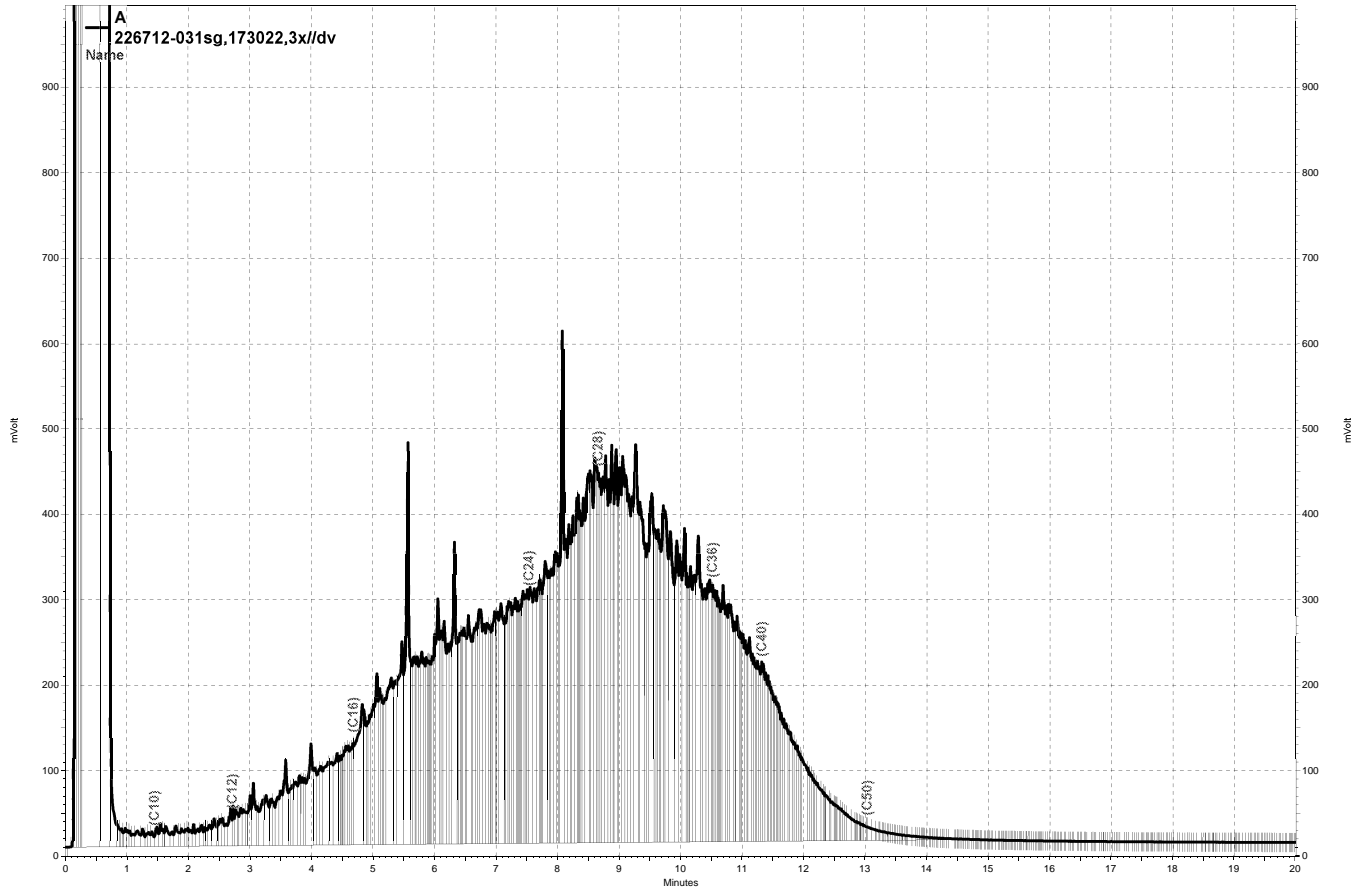




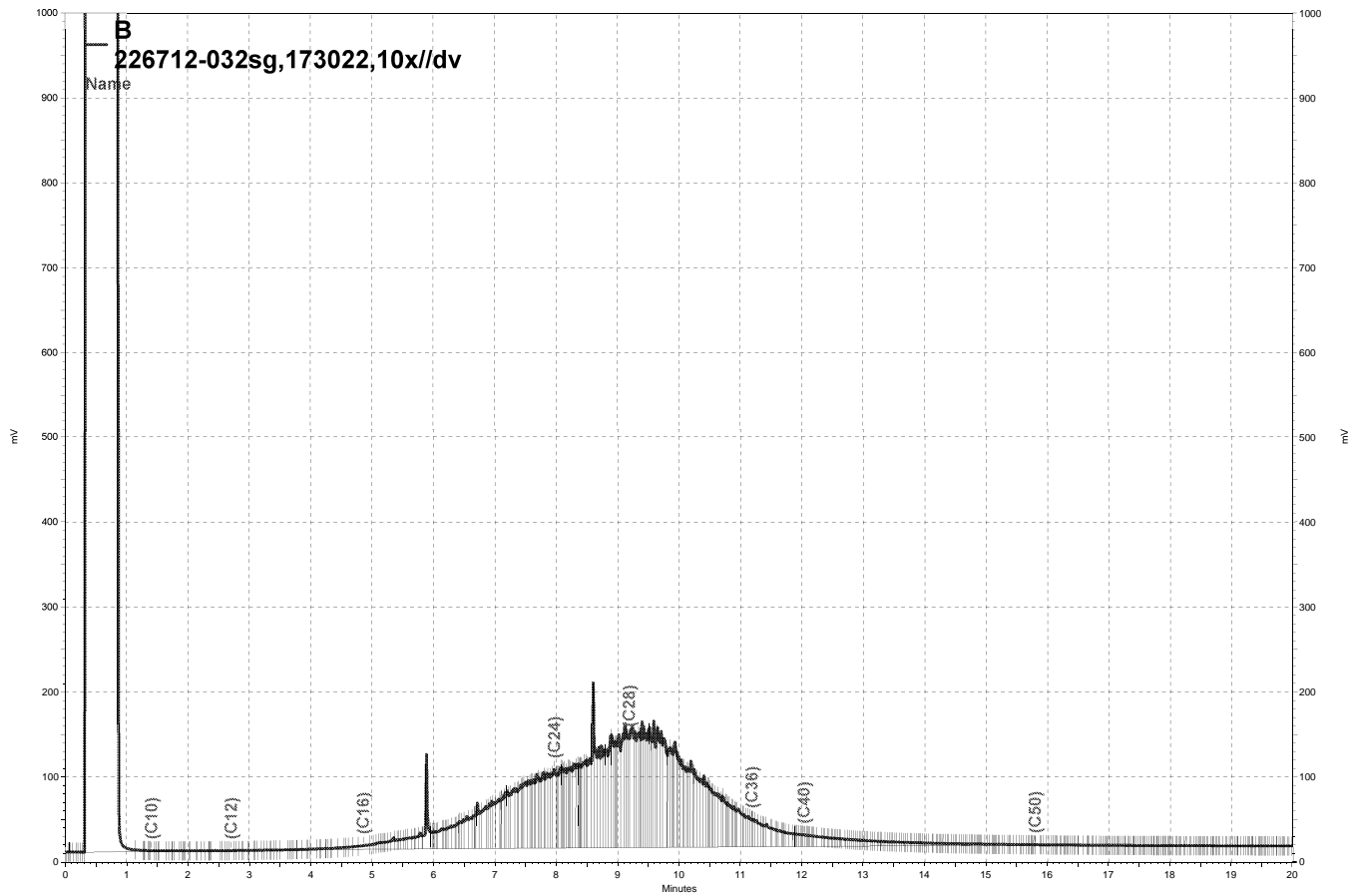
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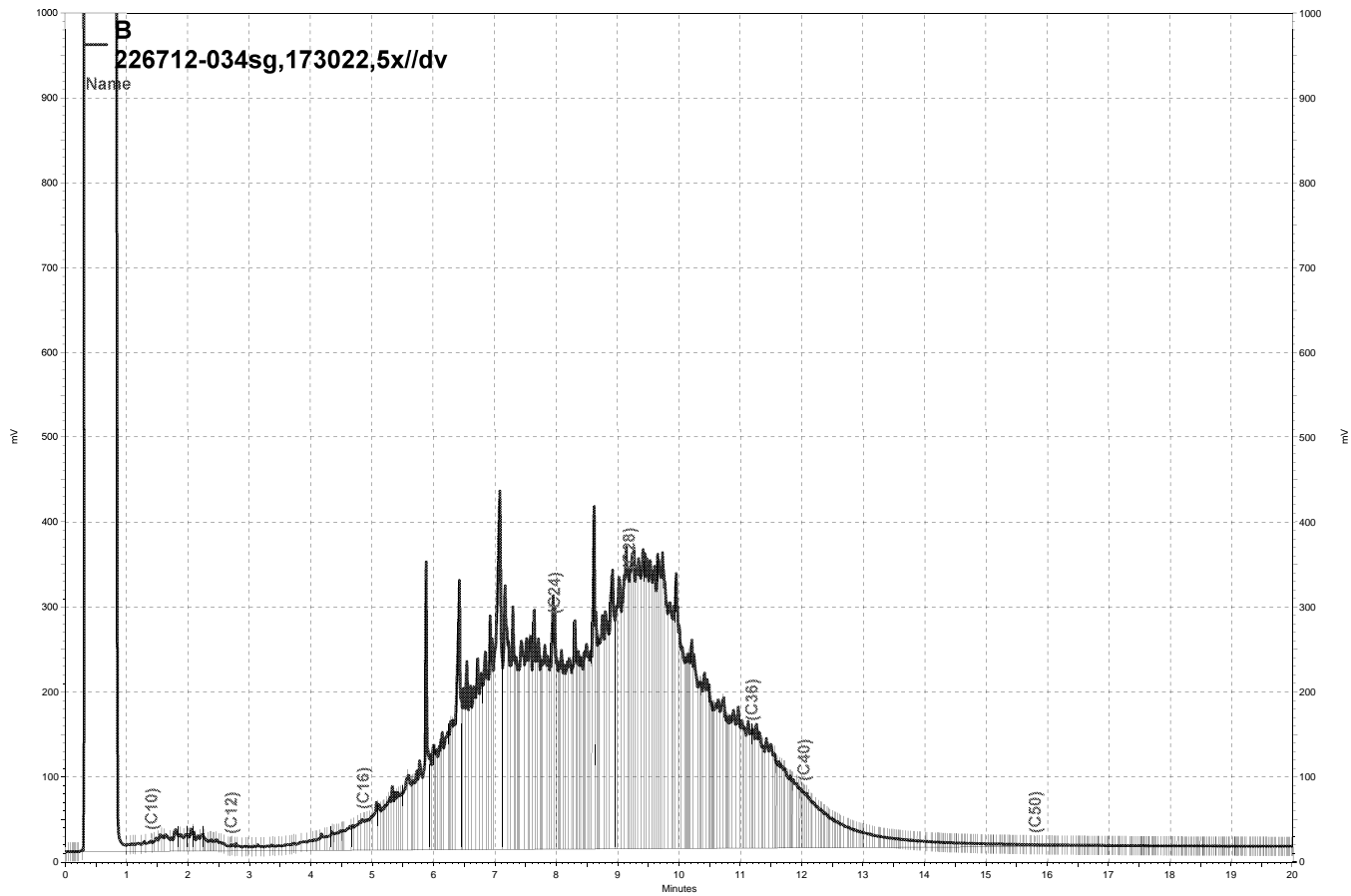
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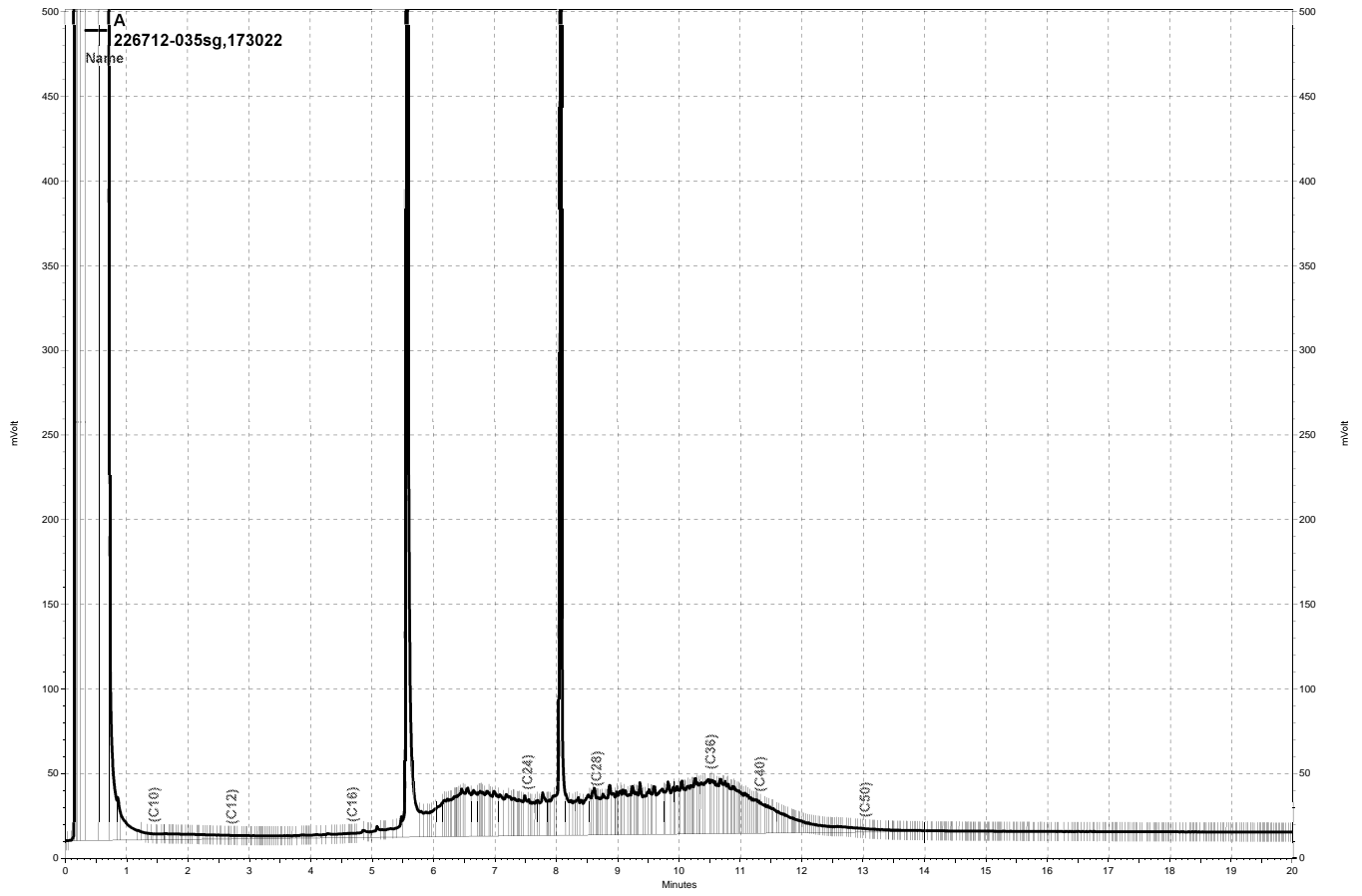
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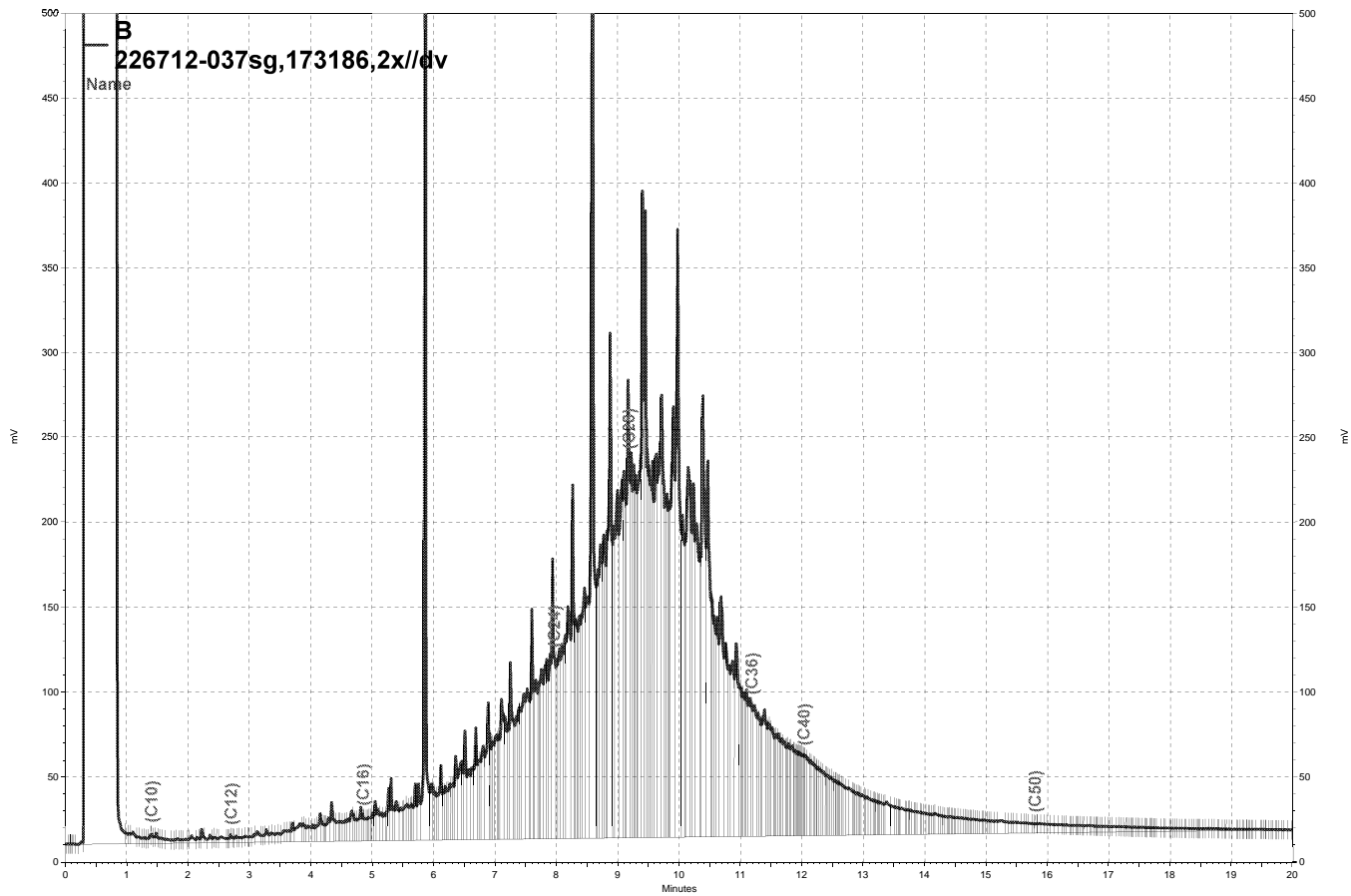
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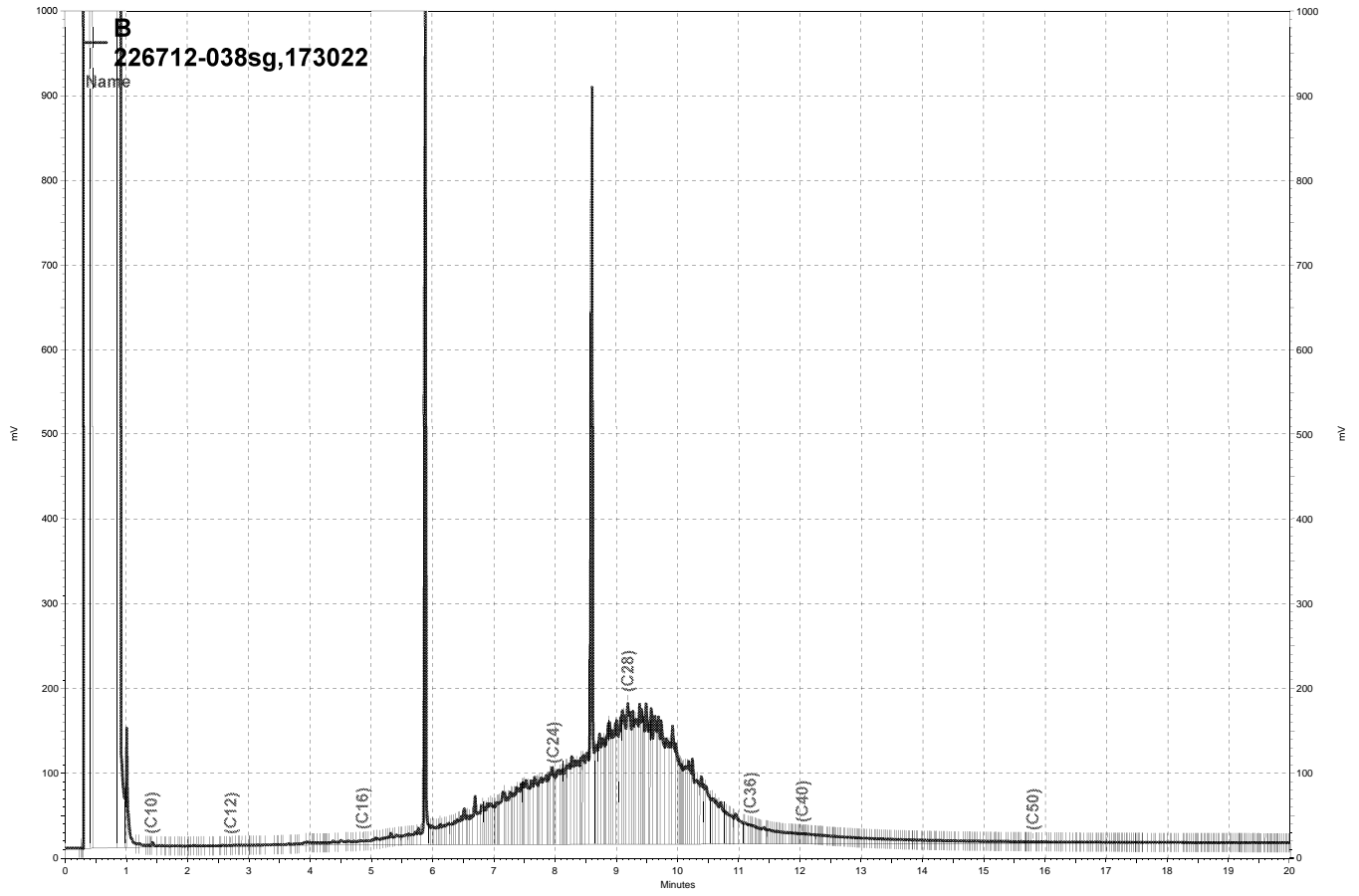
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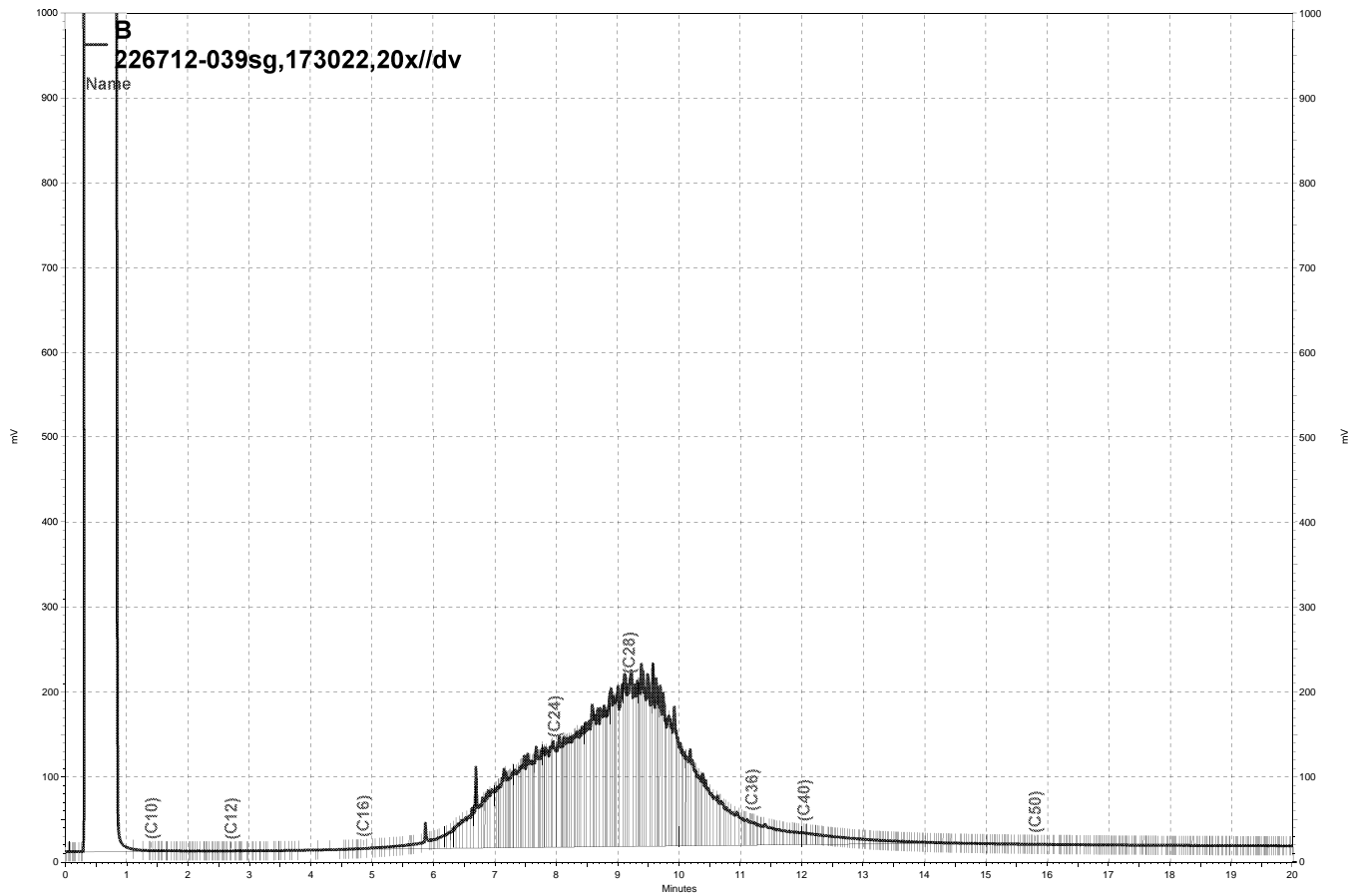


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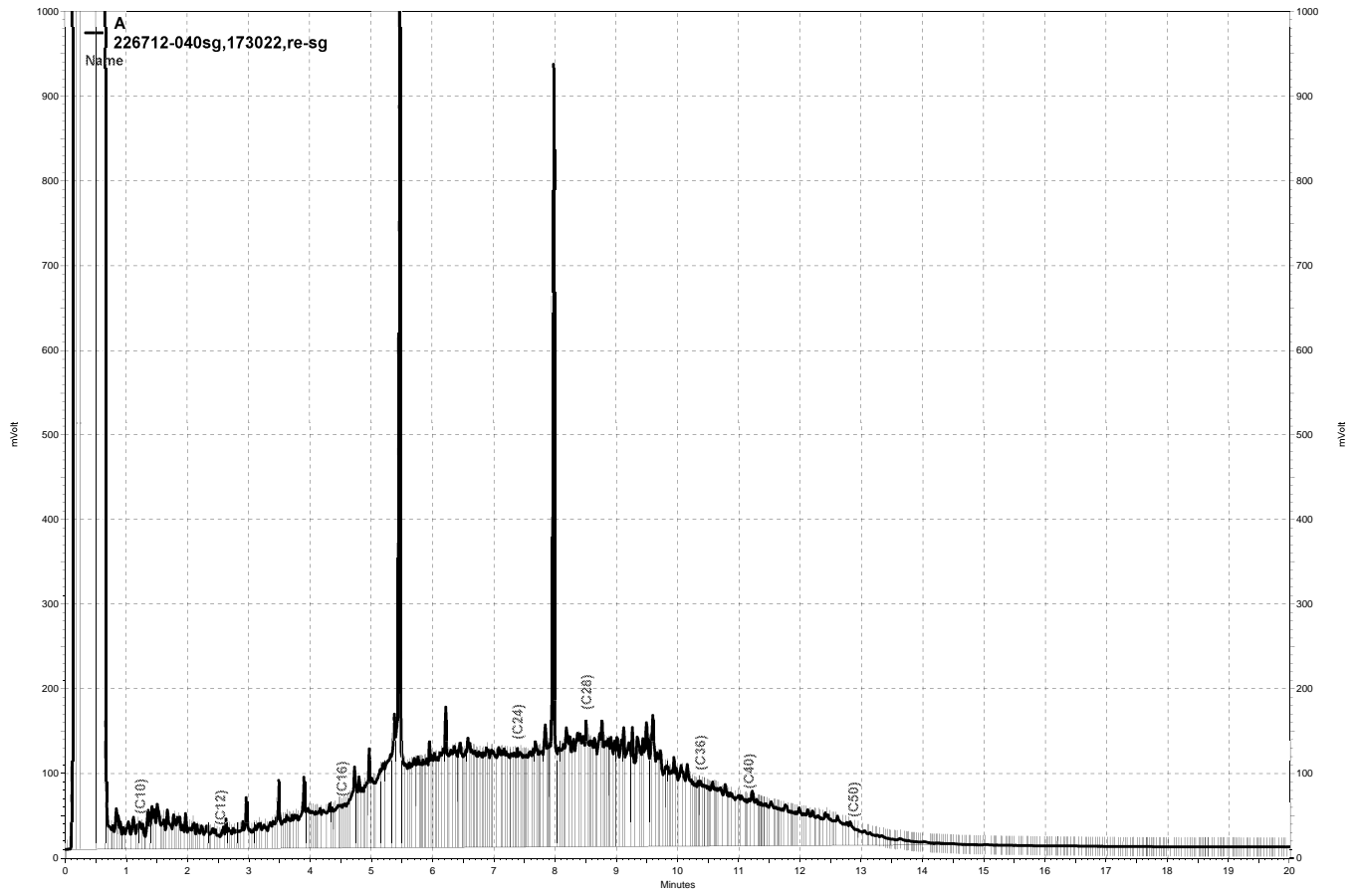


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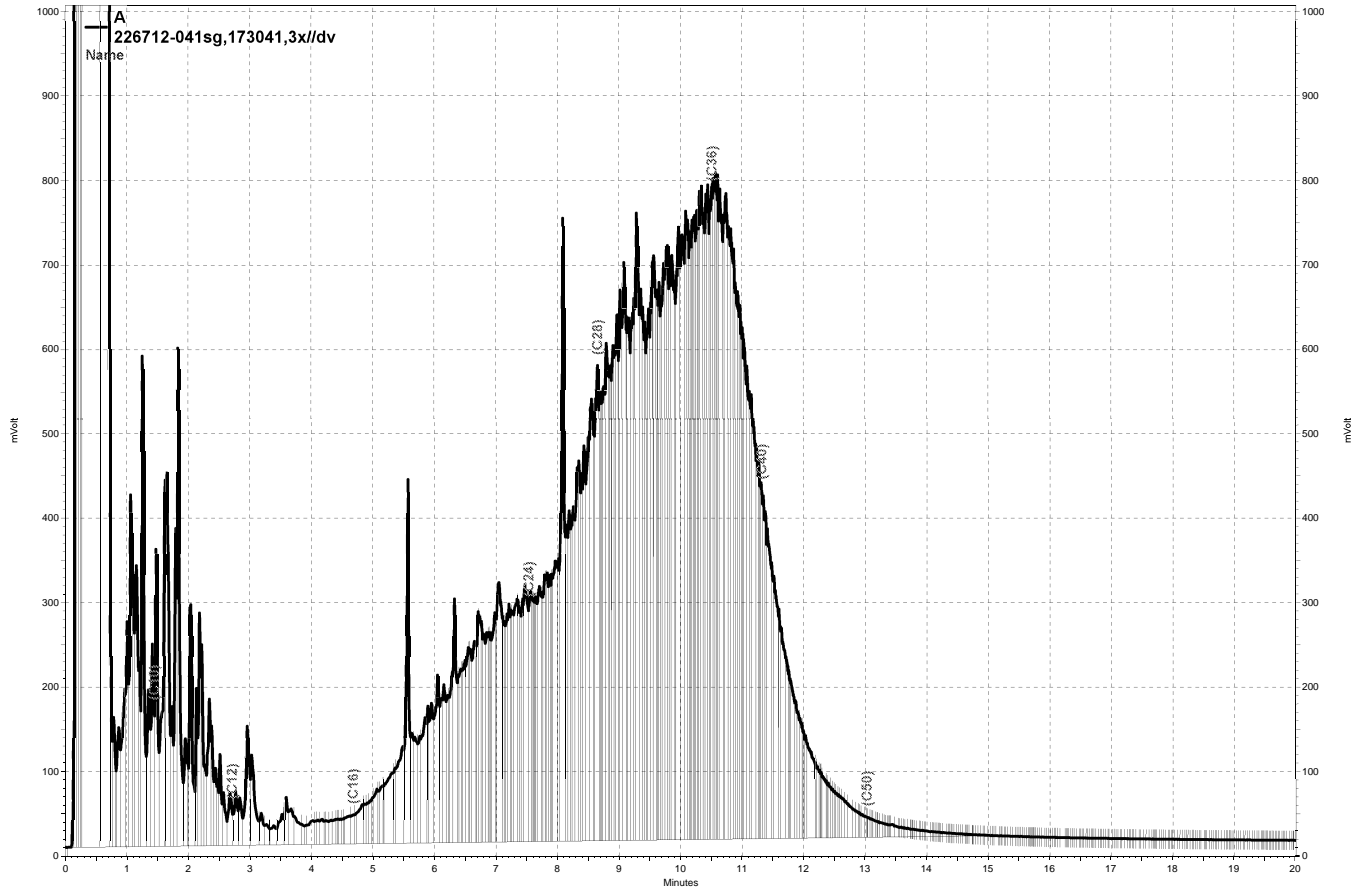




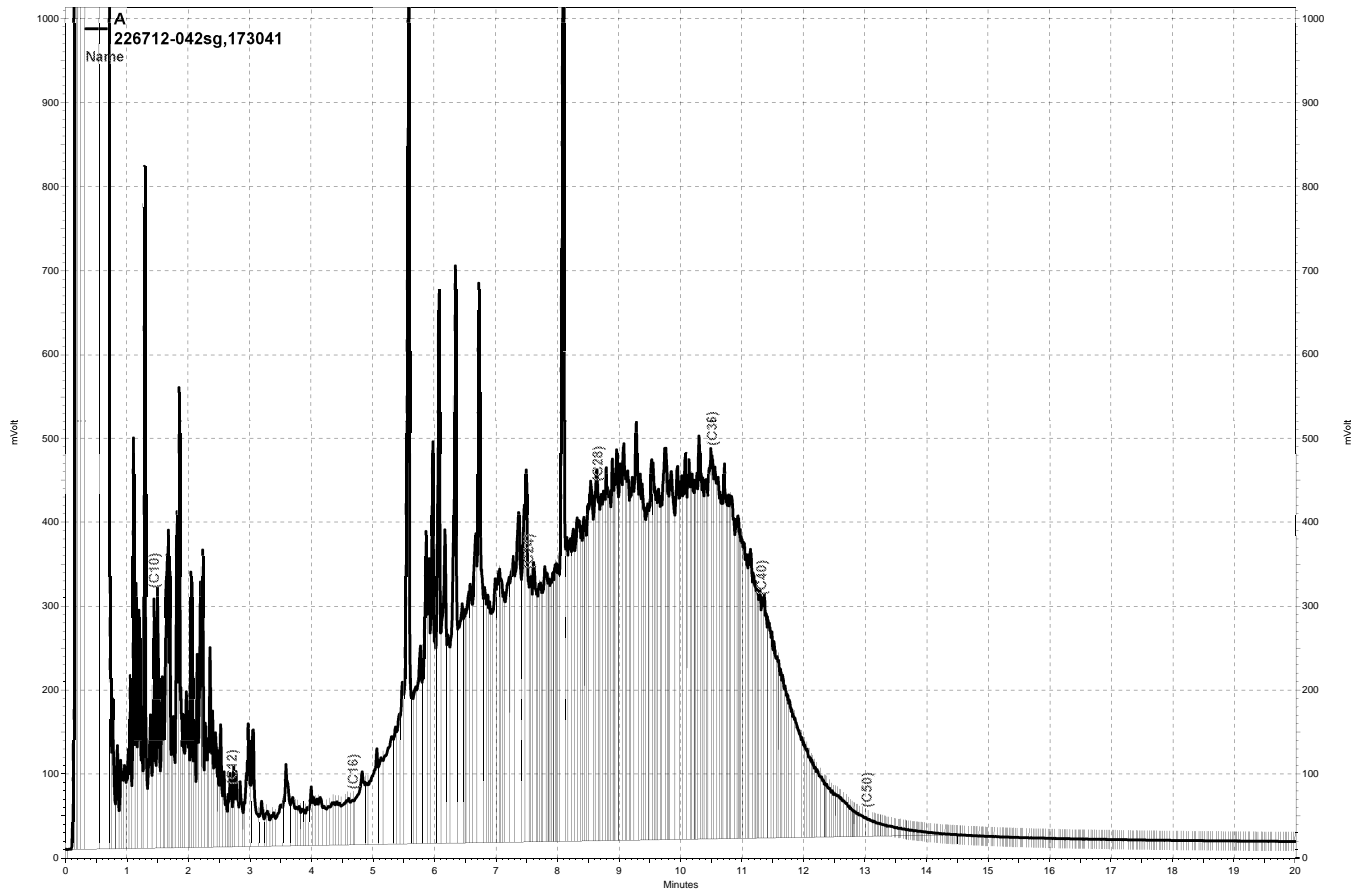
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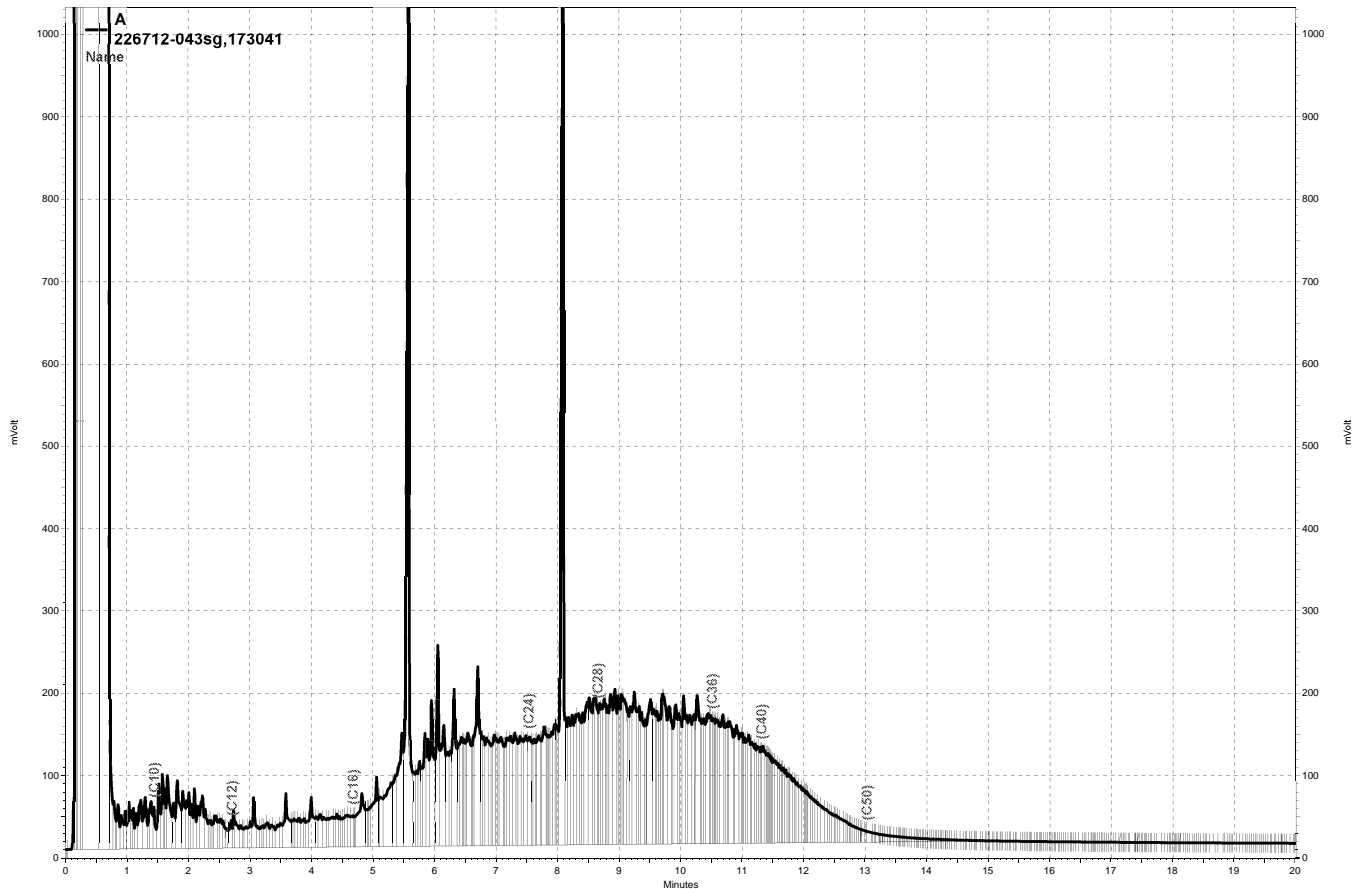
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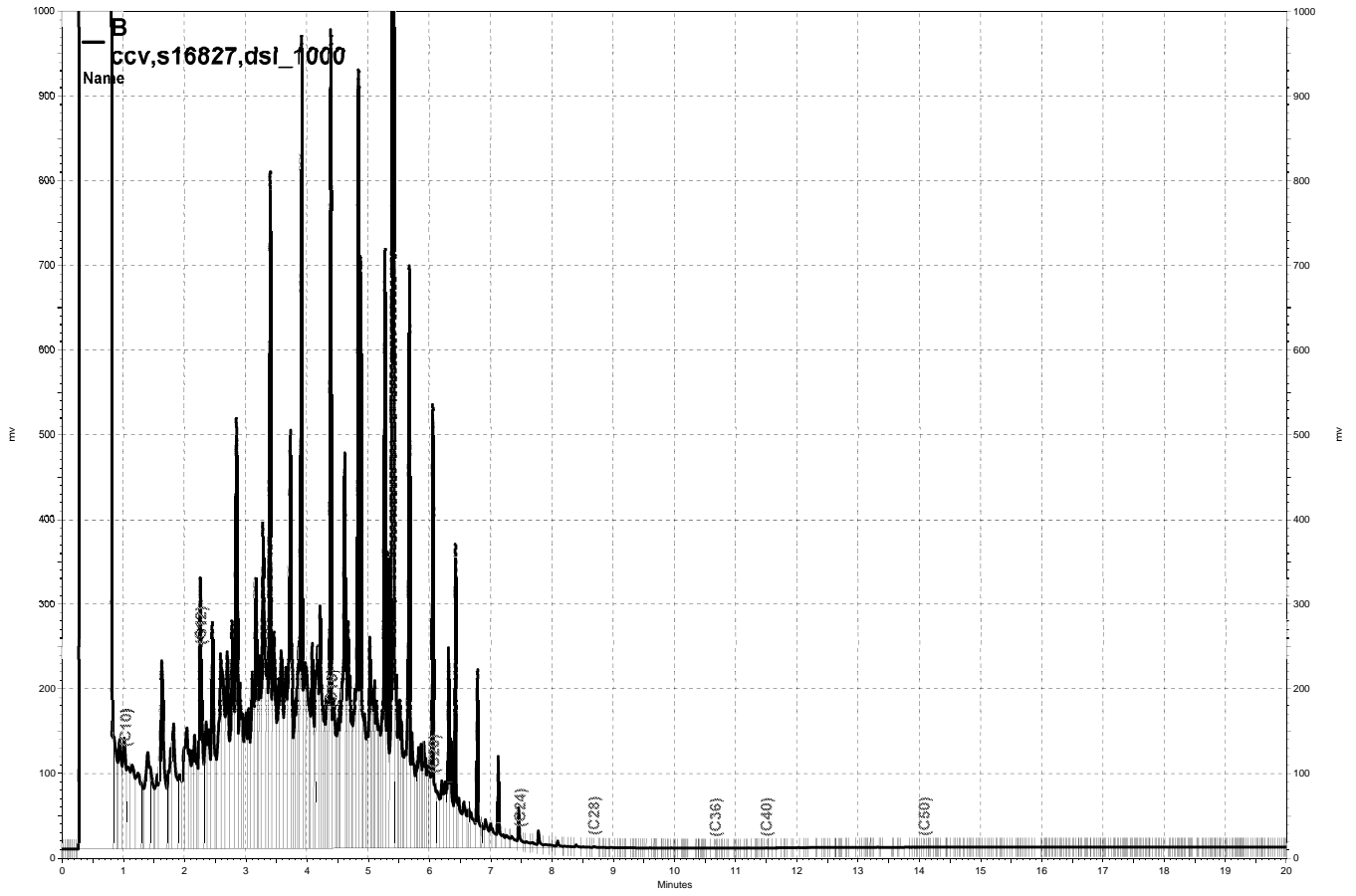
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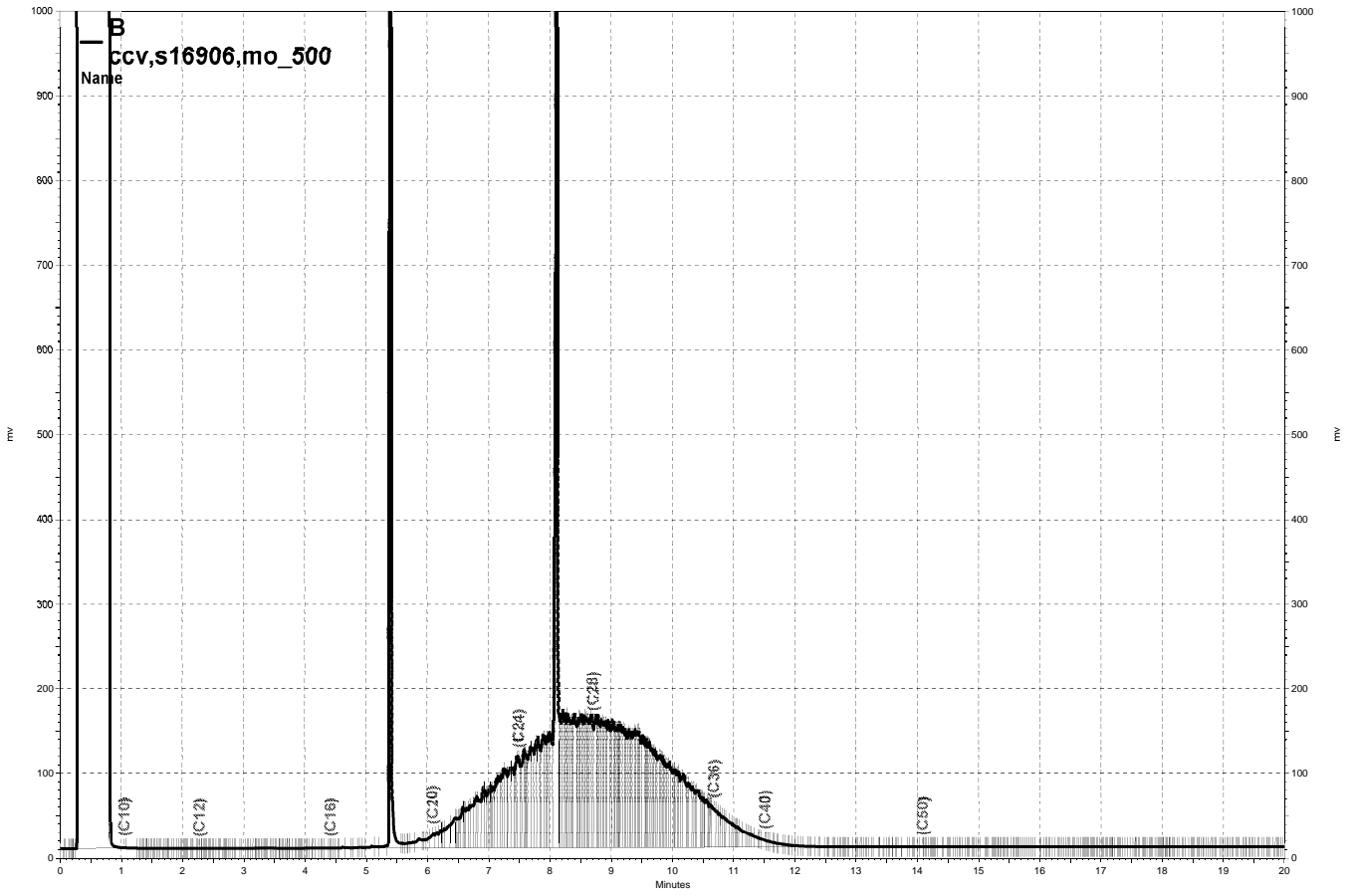
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— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\087b013, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\087b012, B

### Purgeable Organics by GC/MS

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-35-8.5	Diln Fac:	39.31
Lab ID:	226712-005	Batch#:	173059
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received	Analyzed:	03/23/11

Analyte	Result	RL
Freon 12	ND	390
Chloromethane	ND	390
Vinyl Chloride	ND	390
Bromomethane	ND	390
Chloroethane	ND	390
Trichlorofluoromethane	ND	200
Acetone	ND	790
Freon 113	ND	200
1,1-Dichloroethene	ND	200
Methylene Chloride	ND	790
Carbon Disulfide	ND	200
MTBE	ND	200
trans-1,2-Dichloroethene	ND	200
Vinyl Acetate	ND	2,000
1,1-Dichloroethane	ND	200
2-Butanone	ND	390
cis-1,2-Dichloroethene	ND	200
2,2-Dichloropropane	ND	200
Chloroform	ND	200
Bromochloromethane	ND	200
1,1,1-Trichloroethane	ND	200
1,1-Dichloropropene	ND	200
Carbon Tetrachloride	ND	200
1,2-Dichloroethane	ND	200
Benzene	ND	200
Trichloroethene	ND	200
1,2-Dichloropropane	ND	200
Bromodichloromethane	ND	200
Dibromomethane	ND	200
4-Methyl-2-Pentanone	ND	390
cis-1,3-Dichloropropene	ND	200
Toluene	ND	200
trans-1,3-Dichloropropene	ND	200
1,1,2-Trichloroethane	ND	200
2-Hexanone	ND	390
1,3-Dichloropropane	ND	200
Tetrachloroethene	ND	200

ND= Not Detected

RL= Reporting Limit



### Purgeable Organics by GC/MS

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-35-8.5	Diln Fac:	39.31
Lab ID:	226712-005	Batch#:	173059
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received	Analyzed:	03/23/11

Analyte	Result	RL
Dibromochloromethane	ND	200
1,2-Dibromoethane	ND	200
Chlorobenzene	ND	200
1,1,1,2-Tetrachloroethane	ND	200
Ethylbenzene	ND	200
m,p-Xylenes	ND	200
o-Xylene	ND	200
Styrene	ND	200
Bromoform	ND	200
Isopropylbenzene	ND	200
1,1,2,2-Tetrachloroethane	ND	200
1,2,3-Trichloropropane	ND	200
Propylbenzene	ND	200
Bromobenzene	ND	200
1,3,5-Trimethylbenzene	ND	200
2-Chlorotoluene	ND	200
4-Chlorotoluene	ND	200
tert-Butylbenzene	ND	200
1,2,4-Trimethylbenzene	ND	200
sec-Butylbenzene	ND	200
para-Isopropyl Toluene	ND	200
1,3-Dichlorobenzene	ND	200
1,4-Dichlorobenzene	ND	200
n-Butylbenzene	ND	200
1,2-Dichlorobenzene	ND	200
1,2-Dibromo-3-Chloropropane	ND	200
1,2,4-Trichlorobenzene	ND	200
Hexachlorobutadiene	ND	200
Naphthalene	ND	200
1,2,3-Trichlorobenzene	ND	200

Surrogate	%REC	Limits
Dibromofluoromethane	95	79-120
1,2-Dichloroethane-d4	91	72-148
Toluene-d8	88	80-120
Bromofluorobenzene	97	78-130

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-11-12.5	Diln Fac:	1.010
Lab ID:	226712-009	Batch#:	172973
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received	Analyzed:	03/21/11

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.1
Acetone	59	20
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.1
MTBE	ND	5.1
trans-1,2-Dichloroethene	ND	5.1
Vinyl Acetate	ND	51
1,1-Dichloroethane	ND	5.1
2-Butanone	12	10
cis-1,2-Dichloroethene	ND	5.1
2,2-Dichloropropane	ND	5.1
Chloroform	ND	5.1
Bromochloromethane	ND	5.1
1,1,1-Trichloroethane	ND	5.1
1,1-Dichloropropene	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Benzene	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
Dibromomethane	ND	5.1
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.1
Toluene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.1
Tetrachloroethene	ND	5.1

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-11-12.5	Diln Fac:	1.010
Lab ID:	226712-009	Batch#:	172973
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received	Analyzed:	03/21/11

Analyte	Result	RL
Dibromochloromethane	ND	5.1
1,2-Dibromoethane	ND	5.1
Chlorobenzene	ND	5.1
1,1,1,2-Tetrachloroethane	ND	5.1
Ethylbenzene	ND	5.1
m,p-Xylenes	ND	5.1
o-Xylene	ND	5.1
Styrene	ND	5.1
Bromoform	ND	5.1
Isopropylbenzene	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,2,3-Trichloropropane	ND	5.1
Propylbenzene	ND	5.1
Bromobenzene	ND	5.1
1,3,5-Trimethylbenzene	ND	5.1
2-Chlorotoluene	ND	5.1
4-Chlorotoluene	ND	5.1
tert-Butylbenzene	ND	5.1
1,2,4-Trimethylbenzene	ND	5.1
sec-Butylbenzene	ND	5.1
para-Isopropyl Toluene	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
n-Butylbenzene	ND	5.1
1,2-Dichlorobenzene	ND	5.1
1,2-Dibromo-3-Chloropropane	ND	5.1
1,2,4-Trichlorobenzene	ND	5.1
Hexachlorobutadiene	ND	5.1
Naphthalene	ND	5.1
1,2,3-Trichlorobenzene	ND	5.1

Surrogate	%REC	Limits
Dibromofluoromethane	92	79-120
1,2-Dichloroethane-d4	87	72-148
Toluene-d8	103	80-120
Bromofluorobenzene	107	78-130

ND= Not Detected  
 RL= Reporting Limit

**Purgeable Aromatics by GC/MS**

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received		

Field ID:	SB-26-1.5	Diln Fac:	0.7764
Type:	SAMPLE	Batch#:	173019
Lab ID:	226712-022	Analyzed:	03/22/11

Analyte	Result	RL
Benzene	41	3.9
Toluene	ND	3.9
Ethylbenzene	5.3	3.9
m,p-Xylenes	4.4	3.9
o-Xylene	ND	3.9

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	72-148
Toluene-d8	107	80-120
Bromofluorobenzene	115	78-130

Field ID:	SB-26-6.5	Diln Fac:	0.8913
Type:	SAMPLE	Batch#:	172973
Lab ID:	226712-023	Analyzed:	03/21/11

Analyte	Result	RL
Benzene	ND	4.5
Toluene	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	93	78-130

Field ID:	SB-26-12.5	Diln Fac:	0.9208
Type:	SAMPLE	Batch#:	172973
Lab ID:	226712-024	Analyzed:	03/21/11

Analyte	Result	RL
Benzene	15	4.6
Toluene	9.6	4.6
Ethylbenzene	10	4.6
m,p-Xylenes	31	4.6
o-Xylene	ND	4.6

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	72-148
Toluene-d8	106	80-120
Bromofluorobenzene	118	78-130

ND= Not Detected  
 RL= Reporting Limit

Purgeable Aromatics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Sampled: 03/17/11
Units:	ug/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-26-20.0 Diln Fac: 0.8183  
 Type: SAMPLE Batch#: 172973  
 Lab ID: 226712-025 Analyzed: 03/21/11

Analyte	Result	RL
Benzene	ND	4.1
Toluene	ND	4.1
Ethylbenzene	ND	4.1
m,p-Xylenes	ND	4.1
o-Xylene	ND	4.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	83	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	94	78-130

Field ID: SB-28-1.5 Diln Fac: 0.7837  
 Type: SAMPLE Batch#: 172973  
 Lab ID: 226712-032 Analyzed: 03/21/11

Analyte	Result	RL
Benzene	ND	3.9
Toluene	ND	3.9
Ethylbenzene	ND	3.9
m,p-Xylenes	ND	3.9
o-Xylene	ND	3.9

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	86	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	96	78-130

Field ID: SB-28-7.5 Diln Fac: 0.8606  
 Type: SAMPLE Batch#: 172973  
 Lab ID: 226712-033 Analyzed: 03/21/11

Analyte	Result	RL
Benzene	ND	4.3
Toluene	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	88	72-148
Toluene-d8	95	80-120
Bromofluorobenzene	90	78-130

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Aromatics by GC/MS

Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Sampled: 03/17/11
Units:	ug/Kg	Received: 03/17/11
Basis:	as received	

Field ID:	SB-28-12.5	Diln Fac:	0.7657
Type:	SAMPLE	Batch#:	172973
Lab ID:	226712-034	Analyzed:	03/21/11

Analyte	Result	RL
Benzene	ND	3.8
Toluene	3.8	3.8
Ethylbenzene	ND	3.8
m,p-Xylenes	ND	3.8
o-Xylene	ND	3.8

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	111	78-130

Field ID:	SB-28-16.0	Diln Fac:	0.7728
Type:	SAMPLE	Batch#:	172973
Lab ID:	226712-035	Analyzed:	03/21/11

Analyte	Result	RL
Benzene	ND	3.9
Toluene	ND	3.9
Ethylbenzene	ND	3.9
m,p-Xylenes	ND	3.9
o-Xylene	ND	3.9

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	83	72-148
Toluene-d8	93	80-120
Bromofluorobenzene	93	78-130

Field ID:	SB-30-2.0	Diln Fac:	54.59
Type:	SAMPLE	Batch#:	173019
Lab ID:	226712-040	Analyzed:	03/22/11

Analyte	Result	RL
Benzene	1,700	270
Toluene	ND	270
Ethylbenzene	6,200	270
m,p-Xylenes	4,200	270
o-Xylene	950	270

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	84	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	95	78-130

ND= Not Detected  
 RL= Reporting Limit

Purgeable Aromatics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Sampled: 03/17/11
Units:	ug/Kg	Received: 03/17/11
Basis:	as received	

Field ID: SB-30-8.5 Diln Fac: 43.03  
 Type: SAMPLE Batch#: 173019  
 Lab ID: 226712-041 Analyzed: 03/22/11

Analyte	Result	RL
Benzene	ND	220
Toluene	ND	220
Ethylbenzene	1,300	220
m,p-Xylenes	3,900	220
o-Xylene	ND	220

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	79	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	97	78-130

Field ID: SB-30-12.5 Diln Fac: 0.8224  
 Type: SAMPLE Batch#: 173019  
 Lab ID: 226712-042 Analyzed: 03/22/11

Analyte	Result	RL
Benzene	ND	4.1
Toluene	ND	4.1
Ethylbenzene	39	4.1
m,p-Xylenes	130	4.1
o-Xylene	15	4.1

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	90	72-148
Toluene-d8	92	80-120
Bromofluorobenzene	119	78-130

Field ID: SB-30-15.5 Diln Fac: 0.8606  
 Type: SAMPLE Batch#: 173019  
 Lab ID: 226712-043 Analyzed: 03/22/11

Analyte	Result	RL
Benzene	ND	4.3
Toluene	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	83	72-148
Toluene-d8	98	80-120
Bromofluorobenzene	105	78-130

ND= Not Detected  
 RL= Reporting Limit





### Purgeable Organics by GC/MS

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-19-7.5	Diln Fac:	0.8237
Lab ID:	226712-030	Batch#:	172973
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received	Analyzed:	03/21/11

Analyte	Result	RL
Freon 12	ND	8.2
Chloromethane	ND	8.2
Vinyl Chloride	ND	8.2
Bromomethane	ND	8.2
Chloroethane	ND	8.2
Trichlorofluoromethane	ND	4.1
Acetone	39	16
Freon 113	ND	4.1
1,1-Dichloroethene	ND	4.1
Methylene Chloride	ND	16
Carbon Disulfide	ND	4.1
MTBE	ND	4.1
trans-1,2-Dichloroethene	ND	4.1
Vinyl Acetate	ND	41
1,1-Dichloroethane	ND	4.1
2-Butanone	8.6	8.2
cis-1,2-Dichloroethene	ND	4.1
2,2-Dichloropropane	ND	4.1
Chloroform	ND	4.1
Bromochloromethane	ND	4.1
1,1,1-Trichloroethane	ND	4.1
1,1-Dichloropropene	ND	4.1
Carbon Tetrachloride	ND	4.1
1,2-Dichloroethane	ND	4.1
Benzene	ND	4.1
Trichloroethene	ND	4.1
1,2-Dichloropropane	ND	4.1
Bromodichloromethane	ND	4.1
Dibromomethane	ND	4.1
4-Methyl-2-Pentanone	ND	8.2
cis-1,3-Dichloropropene	ND	4.1
Toluene	ND	4.1
trans-1,3-Dichloropropene	ND	4.1
1,1,2-Trichloroethane	ND	4.1
2-Hexanone	ND	8.2
1,3-Dichloropropane	ND	4.1
Tetrachloroethene	ND	4.1

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-19-7.5	Diln Fac:	0.8237
Lab ID:	226712-030	Batch#:	172973
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received	Analyzed:	03/21/11

Analyte	Result	RL
Dibromochloromethane	ND	4.1
1,2-Dibromoethane	ND	4.1
Chlorobenzene	ND	4.1
1,1,1,2-Tetrachloroethane	ND	4.1
Ethylbenzene	ND	4.1
m,p-Xylenes	ND	4.1
o-Xylene	ND	4.1
Styrene	ND	4.1
Bromoform	ND	4.1
Isopropylbenzene	ND	4.1
1,1,2,2-Tetrachloroethane	ND	4.1
1,2,3-Trichloropropane	ND	4.1
Propylbenzene	ND	4.1
Bromobenzene	ND	4.1
1,3,5-Trimethylbenzene	ND	4.1
2-Chlorotoluene	ND	4.1
4-Chlorotoluene	ND	4.1
tert-Butylbenzene	ND	4.1
1,2,4-Trimethylbenzene	ND	4.1
sec-Butylbenzene	ND	4.1
para-Isopropyl Toluene	ND	4.1
1,3-Dichlorobenzene	ND	4.1
1,4-Dichlorobenzene	ND	4.1
n-Butylbenzene	ND	4.1
1,2-Dichlorobenzene	ND	4.1
1,2-Dibromo-3-Chloropropane	ND	4.1
1,2,4-Trichlorobenzene	ND	4.1
Hexachlorobutadiene	ND	4.1
Naphthalene	ND	4.1
1,2,3-Trichlorobenzene	ND	4.1

Surrogate	%REC	Limits
Dibromofluoromethane	92	79-120
1,2-Dichloroethane-d4	83	72-148
Toluene-d8	100	80-120
Bromofluorobenzene	97	78-130

ND= Not Detected  
 RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-30-8.5	Diln Fac:	43.03
Lab ID:	226712-041	Batch#:	173019
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received	Analyzed:	03/22/11

Analyte	Result	RL
Freon 12	ND	430
Chloromethane	ND	430
Vinyl Chloride	ND	430
Bromomethane	ND	430
Chloroethane	ND	430
Trichlorofluoromethane	ND	220
Acetone	ND	860
Freon 113	ND	220
1,1-Dichloroethene	ND	220
Methylene Chloride	ND	860
Carbon Disulfide	ND	220
MTBE	ND	220
trans-1,2-Dichloroethene	ND	220
Vinyl Acetate	ND	2,200
1,1-Dichloroethane	ND	220
2-Butanone	ND	430
cis-1,2-Dichloroethene	ND	220
2,2-Dichloropropane	ND	220
Chloroform	ND	220
Bromochloromethane	ND	220
1,1,1-Trichloroethane	ND	220
1,1-Dichloropropene	ND	220
Carbon Tetrachloride	ND	220
1,2-Dichloroethane	ND	220
Benzene	ND	220
Trichloroethene	ND	220
1,2-Dichloropropane	ND	220
Bromodichloromethane	ND	220
Dibromomethane	ND	220
4-Methyl-2-Pentanone	ND	430
cis-1,3-Dichloropropene	ND	220
Toluene	ND	220
trans-1,3-Dichloropropene	ND	220
1,1,2-Trichloroethane	ND	220
2-Hexanone	ND	430
1,3-Dichloropropane	ND	220
Tetrachloroethene	ND	220

ND= Not Detected

RL= Reporting Limit

### Purgeable Organics by GC/MS

Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 5035
Project#:	241.082.02.001	Analysis:	EPA 8260B
Field ID:	SB-30-8.5	Diln Fac:	43.03
Lab ID:	226712-041	Batch#:	173019
Matrix:	Soil	Sampled:	03/17/11
Units:	ug/Kg	Received:	03/17/11
Basis:	as received	Analyzed:	03/22/11

Analyte	Result	RL
Dibromochloromethane	ND	220
1,2-Dibromoethane	ND	220
Chlorobenzene	ND	220
1,1,1,2-Tetrachloroethane	ND	220
Ethylbenzene	1,300	220
m,p-Xylenes	3,900	220
o-Xylene	ND	220
Styrene	ND	220
Bromoform	ND	220
Isopropylbenzene	1,000	220
1,1,2,2-Tetrachloroethane	ND	220
1,2,3-Trichloropropane	ND	220
Propylbenzene	1,500	220
Bromobenzene	ND	220
1,3,5-Trimethylbenzene	1,800	220
2-Chlorotoluene	ND	220
4-Chlorotoluene	ND	220
tert-Butylbenzene	720	220
1,2,4-Trimethylbenzene	5,000	220
sec-Butylbenzene	1,800	220
para-Isopropyl Toluene	ND	220
1,3-Dichlorobenzene	ND	220
1,4-Dichlorobenzene	ND	220
n-Butylbenzene	5,000	220
1,2-Dichlorobenzene	ND	220
1,2-Dibromo-3-Chloropropane	ND	220
1,2,4-Trichlorobenzene	ND	220
Hexachlorobutadiene	ND	220
Naphthalene	880	220
1,2,3-Trichlorobenzene	ND	220

Surrogate	%REC	Limits
Dibromofluoromethane	87	79-120
1,2-Dichloroethane-d4	79	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	97	78-130

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584582	Batch#: 172973
Matrix:	Soil	Analyzed: 03/21/11
Units:	ug/Kg	

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

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584582	Batch#: 172973
Matrix:	Soil	Analyzed: 03/21/11
Units:	ug/Kg	

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

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	95	79-120
1,2-Dichloroethane-d4	92	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	95	78-130

ND= Not Detected

RL= Reporting Limit



**Batch QC Report**

Purgeable Organics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 172973
Units:	ug/Kg	Analyzed: 03/21/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584583

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	21.25	18.68	88	68-134
Benzene	21.25	21.41	101	80-128
Trichloroethene	21.25	20.91	98	75-130
Toluene	21.25	20.47	96	80-130
Chlorobenzene	21.25	20.17	95	80-126

Surrogate	%REC	Limits
Dibromofluoromethane	94	79-120
1,2-Dichloroethane-d4	88	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	94	78-130

Type: BSD Lab ID: QC584584

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	21.25	19.50	92	68-134	4	27
Benzene	21.25	20.70	97	80-128	3	20
Trichloroethene	21.25	20.52	97	75-130	2	20
Toluene	21.25	19.71	93	80-130	4	20
Chlorobenzene	21.25	19.37	91	80-126	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	98	79-120
1,2-Dichloroethane-d4	89	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	94	78-130

RPD= Relative Percent Difference



**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584758	Batch#: 173019
Matrix:	Soil	Analyzed: 03/22/11
Units:	ug/Kg	

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

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584758	Batch#: 173019
Matrix:	Soil	Analyzed: 03/22/11
Units:	ug/Kg	

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

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	96	79-120
1,2-Dichloroethane-d4	90	72-148
Toluene-d8	97	80-120
Bromofluorobenzene	89	78-130

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

Purgeable Aromatics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 173019
Units:	ug/Kg	Analyzed: 03/22/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584759

Analyte	Spiked	Result	%REC	Limits
Benzene	22.50	23.49	104	80-128
Toluene	22.50	21.75	97	80-130
Ethylbenzene	22.50	21.51	96	80-133
m,p-Xylenes	45.00	42.69	95	80-134
o-Xylene	22.50	20.99	93	79-130

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	89	78-130

Type: BSD Lab ID: QC584760

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	22.50	21.85	97	80-128	7	20
Toluene	22.50	21.18	94	80-130	3	20
Ethylbenzene	22.50	21.47	95	80-133	0	20
m,p-Xylenes	45.00	41.63	93	80-134	3	20
o-Xylene	22.50	21.06	94	79-130	0	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	93	72-148
Toluene-d8	92	80-120
Bromofluorobenzene	91	78-130

RPD= Relative Percent Difference



**Batch QC Report**

Purgeable Aromatics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#: 173019
MSS Lab ID:	226756-001	Sampled: 03/21/11
Matrix:	Soil	Received: 03/21/11
Units:	ug/Kg	Analyzed: 03/22/11
Basis:	as received	

Type: MS Diln Fac: 0.9921  
 Lab ID: QC584783

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	<0.9497	49.60	42.17	85	69-125
Toluene	<1.282	49.60	38.60	78	62-128
Ethylbenzene	<1.179	49.60	38.25	77	57-136
m,p-Xylenes	<0.6046	99.21	75.11	76	57-136
o-Xylene	<1.104	49.60	37.62	76	56-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	95	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	94	78-130

Type: MSD Diln Fac: 0.9881  
 Lab ID: QC584784

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	49.41	45.70	92	69-125	8	36
Toluene	49.41	42.29	86	62-128	10	41
Ethylbenzene	49.41	42.38	86	57-136	11	43
m,p-Xylenes	98.81	79.72	81	57-136	6	46
o-Xylene	49.41	42.12	85	56-134	12	40

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	94	72-148
Toluene-d8	95	80-120
Bromofluorobenzene	89	78-130

RPD= Relative Percent Difference

**Batch QC Report**

Purgeable Organics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#: 173019
MSS Lab ID:	226756-001	Sampled: 03/21/11
Matrix:	Soil	Received: 03/21/11
Units:	ug/Kg	Analyzed: 03/22/11
Basis:	as received	

Type: MS Diln Fac: 0.9921  
 Lab ID: QC584783

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5829	49.60	67.58	136	65-139
Benzene	<0.9497	49.60	42.17	85	69-125
Trichloroethene	<1.108	49.60	79.28	160 *	60-145
Toluene	<1.282	49.60	38.60	78	62-128
Chlorobenzene	<0.2862	49.60	38.08	77	56-127

Surrogate	%REC	Limits
Dibromofluoromethane	8 *	79-120
1,2-Dichloroethane-d4	95	72-148
Toluene-d8	96	80-120
Bromofluorobenzene	94	78-130

Type: MSD Diln Fac: 0.9881  
 Lab ID: QC584784

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	49.41	73.81	149 *	65-139	9	38
Benzene	49.41	45.70	92	69-125	8	36
Trichloroethene	49.41	89.95	182 *	60-145	13	41
Toluene	49.41	42.29	86	62-128	10	41
Chlorobenzene	49.41	41.54	84	56-127	9	42

Surrogate	%REC	Limits
Dibromofluoromethane	11 *	79-120
1,2-Dichloroethane-d4	94	72-148
Toluene-d8	95	80-120
Bromofluorobenzene	89	78-130

\*= Value outside of QC limits; see narrative  
 RPD= Relative Percent Difference

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584931	Batch#: 173059
Matrix:	Soil	Analyzed: 03/23/11
Units:	ug/Kg	

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

ND= Not Detected

RL= Reporting Limit

**Batch QC Report**

<b>Purgeable Organics by GC/MS</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584931	Batch#: 173059
Matrix:	Soil	Analyzed: 03/23/11
Units:	ug/Kg	

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

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
Dibromofluoromethane	96	79-120
1,2-Dichloroethane-d4	95	72-148
Toluene-d8	94	80-120
Bromofluorobenzene	94	78-130

ND= Not Detected

RL= Reporting Limit



**Batch QC Report**

Purgeable Organics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5035
Project#:	241.082.02.001	Analysis: EPA 8260B
Matrix:	Soil	Batch#: 173059
Units:	ug/Kg	Analyzed: 03/23/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584932

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	23.75	22.15	93	68-134
Benzene	23.75	22.99	97	80-128
Trichloroethene	23.75	22.81	96	75-130
Toluene	23.75	21.26	89	80-130
Chlorobenzene	23.75	22.26	94	80-126

Surrogate	%REC	Limits
Dibromofluoromethane	99	79-120
1,2-Dichloroethane-d4	94	72-148
Toluene-d8	93	80-120
Bromofluorobenzene	89	78-130

Type: BSD Lab ID: QC584933

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	23.75	22.25	94	68-134	0	27
Benzene	23.75	24.11	102	80-128	5	20
Trichloroethene	23.75	22.22	94	75-130	3	20
Toluene	23.75	21.00	88	80-130	1	20
Chlorobenzene	23.75	22.32	94	80-126	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	79-120
1,2-Dichloroethane-d4	101	72-148
Toluene-d8	92	80-120
Bromofluorobenzene	91	78-130

RPD= Relative Percent Difference

**Batch QC Report**

Purgeable Organics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 5030B
Project#:	241.082.02.001	Analysis: EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#: 173059
MSS Lab ID:	226789-001	Sampled: 03/22/11
Matrix:	Soil	Received: 03/22/11
Units:	ug/Kg	Analyzed: 03/23/11
Basis:	as received	

Type: MS Diln Fac: 0.9671  
 Lab ID: QC584947

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5750	48.36	36.19	75	65-139
Benzene	<0.9368	48.36	37.18	77	69-125
Trichloroethene	<1.093	48.36	36.39	75	60-145
Toluene	<1.264	48.36	37.53	78	62-128
Chlorobenzene	<0.2823	48.36	36.67	76	56-127

Surrogate	%REC	Limits
Dibromofluoromethane	95	79-120
1,2-Dichloroethane-d4	92	72-148
Toluene-d8	94	80-120
Bromofluorobenzene	89	78-130

Type: MSD Diln Fac: 0.9747  
 Lab ID: QC584948

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.73	42.43	87	65-139	15	38
Benzene	48.73	43.69	90	69-125	15	36
Trichloroethene	48.73	42.45	87	60-145	15	41
Toluene	48.73	39.69	81	62-128	5	41
Chlorobenzene	48.73	39.61	81	56-127	7	42

Surrogate	%REC	Limits
Dibromofluoromethane	98	79-120
1,2-Dichloroethane-d4	93	72-148
Toluene-d8	91	80-120
Bromofluorobenzene	91	78-130

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-35-8.5	Batch#:	172990
Lab ID:	226712-005	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	ug/Kg	Prepared:	03/21/11
Basis:	as received	Analyzed:	03/22/11
Diln Fac:	10.00		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	3,300
Phenol	ND	3,300
bis(2-Chloroethyl)ether	ND	3,300
2-Chlorophenol	ND	3,300
1,3-Dichlorobenzene	ND	3,300
1,4-Dichlorobenzene	ND	3,300
Benzyl alcohol	ND	3,300
1,2-Dichlorobenzene	ND	3,300
2-Methylphenol	ND	3,300
bis(2-Chloroisopropyl) ether	ND	3,300
4-Methylphenol	ND	3,300
N-Nitroso-di-n-propylamine	ND	3,300
Hexachloroethane	ND	3,300
Nitrobenzene	ND	3,300
Isophorone	ND	3,300
2-Nitrophenol	ND	6,700
2,4-Dimethylphenol	ND	3,300
Benzoic acid	ND	17,000
bis(2-Chloroethoxy)methane	ND	3,300
2,4-Dichlorophenol	ND	3,300
1,2,4-Trichlorobenzene	ND	3,300
Naphthalene	ND	670
4-Chloroaniline	ND	3,300
Hexachlorobutadiene	ND	3,300
4-Chloro-3-methylphenol	ND	3,300
2-Methylnaphthalene	ND	670
Hexachlorocyclopentadiene	ND	6,700
2,4,6-Trichlorophenol	ND	3,300
2,4,5-Trichlorophenol	ND	3,300
2-Chloronaphthalene	ND	3,300
2-Nitroaniline	ND	6,700
Dimethylphthalate	ND	3,300
Acenaphthylene	ND	670
2,6-Dinitrotoluene	ND	3,300
3-Nitroaniline	ND	6,700
Acenaphthene	ND	670
2,4-Dinitrophenol	ND	6,700
4-Nitrophenol	ND	6,700
Dibenzofuran	ND	3,300
2,4-Dinitrotoluene	ND	3,300
Diethylphthalate	ND	3,300
Fluorene	ND	670
4-Chlorophenyl-phenylether	ND	3,300
4-Nitroaniline	ND	6,700
4,6-Dinitro-2-methylphenol	ND	6,700
N-Nitrosodiphenylamine	ND	3,300
Azobenzene	ND	3,300
4-Bromophenyl-phenylether	ND	3,300
Hexachlorobenzene	ND	3,300
Pentachlorophenol	ND	6,700
Phenanthrene	ND	670
Anthracene	ND	670

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

Semivolatile Organics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-35-8.5	Batch#: 172990
Lab ID:	226712-005	Sampled: 03/17/11
Matrix:	Soil	Received: 03/17/11
Units:	ug/Kg	Prepared: 03/21/11
Basis:	as received	Analyzed: 03/22/11
Diln Fac:	10.00	

Analyte	Result	RL
Di-n-butylphthalate	ND	3,300
Fluoranthene	ND	670
Pyrene	1,100	670
Butylbenzylphthalate	ND	3,300
3,3'-Dichlorobenzidine	ND	6,700
Benzo(a)anthracene	ND	670
Chrysene	ND	670
bis(2-Ethylhexyl)phthalate	ND	3,300
Di-n-octylphthalate	ND	3,300
Benzo(b)fluoranthene	ND	670
Benzo(k)fluoranthene	ND	670
Benzo(a)pyrene	ND	670
Indeno(1,2,3-cd)pyrene	ND	670
Dibenz(a,h)anthracene	ND	670
Benzo(g,h,i)perylene	ND	670

Surrogate	%REC	Limits
2-Fluorophenol	DO	35-120
Phenol-d5	DO	33-120
2,4,6-Tribromophenol	DO	30-120
Nitrobenzene-d5	DO	43-120
2-Fluorobiphenyl	DO	47-120
Terphenyl-d14	DO	40-120

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

Semivolatile Organics by GC/MS			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-11-12.5	Batch#:	172990
Lab ID:	226712-009	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	ug/Kg	Prepared:	03/21/11
Basis:	as received	Analyzed:	03/22/11
Diln Fac:	1.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-11-12.5	Batch#: 172990
Lab ID:	226712-009	Sampled: 03/17/11
Matrix:	Soil	Received: 03/17/11
Units:	ug/Kg	Prepared: 03/21/11
Basis:	as received	Analyzed: 03/22/11
Diln Fac:	1.000	

Analyte	Result	RL
Fluoranthene	ND	66
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	74	35-120
Phenol-d5	77	33-120
2,4,6-Tribromophenol	76	30-120
Nitrobenzene-d5	65	43-120
2-Fluorobiphenyl	76	47-120
Terphenyl-d14	69	40-120

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-19-7.5	Batch#:	172990
Lab ID:	226712-030	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	ug/Kg	Prepared:	03/21/11
Basis:	as received	Analyzed:	03/22/11

Analyte	Result	RL	Diln Fac
N-Nitrosodimethylamine	ND	1,600	5.000
Phenol	ND	1,600	5.000
bis(2-Chloroethyl)ether	ND	1,600	5.000
2-Chlorophenol	ND	1,600	5.000
1,3-Dichlorobenzene	ND	1,600	5.000
1,4-Dichlorobenzene	ND	1,600	5.000
Benzyl alcohol	ND	1,600	5.000
1,2-Dichlorobenzene	ND	1,600	5.000
2-Methylphenol	ND	1,600	5.000
bis(2-Chloroisopropyl) ether	ND	1,600	5.000
4-Methylphenol	ND	1,600	5.000
N-Nitroso-di-n-propylamine	ND	1,600	5.000
Hexachloroethane	ND	1,600	5.000
Nitrobenzene	ND	1,600	5.000
Isophorone	ND	1,600	5.000
2-Nitrophenol	ND	3,300	5.000
2,4-Dimethylphenol	ND	1,600	5.000
Benzoic acid	ND	8,200	5.000
bis(2-Chloroethoxy)methane	ND	1,600	5.000
2,4-Dichlorophenol	ND	1,600	5.000
1,2,4-Trichlorobenzene	ND	1,600	5.000
Naphthalene	ND	330	5.000
4-Chloroaniline	ND	1,600	5.000
Hexachlorobutadiene	ND	1,600	5.000
4-Chloro-3-methylphenol	ND	1,600	5.000
2-Methylnaphthalene	ND	330	5.000
Hexachlorocyclopentadiene	ND	3,300	5.000
2,4,6-Trichlorophenol	ND	1,600	5.000
2,4,5-Trichlorophenol	ND	1,600	5.000
2-Chloronaphthalene	ND	1,600	5.000
2-Nitroaniline	ND	3,300	5.000
Dimethylphthalate	ND	1,600	5.000
Acenaphthylene	ND	330	5.000
2,6-Dinitrotoluene	ND	1,600	5.000
3-Nitroaniline	ND	3,300	5.000
Acenaphthene	ND	330	5.000
2,4-Dinitrophenol	ND	3,300	5.000
4-Nitrophenol	ND	3,300	5.000
Dibenzofuran	ND	1,600	5.000
2,4-Dinitrotoluene	ND	1,600	5.000
Diethylphthalate	ND	1,600	5.000
Fluorene	ND	330	5.000
4-Chlorophenyl-phenylether	ND	1,600	5.000
4-Nitroaniline	ND	3,300	5.000
4,6-Dinitro-2-methylphenol	ND	3,300	5.000
N-Nitrosodiphenylamine	ND	1,600	5.000
Azobenzene	ND	1,600	5.000
4-Bromophenyl-phenylether	ND	1,600	5.000
Hexachlorobenzene	ND	1,600	5.000
Pentachlorophenol	ND	3,300	5.000
Phenanthrene	ND	330	5.000
Anthracene	ND	330	5.000
Di-n-butylphthalate	ND	1,600	5.000

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

Semivolatile Organics by GC/MS			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-19-7.5	Batch#:	172990
Lab ID:	226712-030	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	ug/Kg	Prepared:	03/21/11
Basis:	as received	Analyzed:	03/22/11

Analyte	Result	RL	Diln Fac
Fluoranthene	ND	330	5.000
Pyrene	ND	2,600	40.00
Butylbenzylphthalate	ND	13,000	40.00
3,3'-Dichlorobenzidine	ND	26,000	40.00
Benzo(a)anthracene	ND	2,600	40.00
Chrysene	ND	2,600	40.00
bis(2-Ethylhexyl)phthalate	ND	13,000	40.00
Di-n-octylphthalate	ND	13,000	40.00
Benzo(b)fluoranthene	ND	2,600	40.00
Benzo(k)fluoranthene	ND	2,600	40.00
Benzo(a)pyrene	ND	2,600	40.00
Indeno(1,2,3-cd)pyrene	ND	2,600	40.00
Dibenz(a,h)anthracene	ND	2,600	40.00
Benzo(g,h,i)perylene	ND	2,600	40.00

Surrogate	%REC	Limits	Diln Fac
2-Fluorophenol	78	35-120	5.000
Phenol-d5	81	33-120	5.000
2,4,6-Tribromophenol	73	30-120	5.000
Nitrobenzene-d5	68	43-120	5.000
2-Fluorobiphenyl	86	47-120	5.000
Terphenyl-d14	DO	40-120	40.00

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



Semivolatile Organics by GC/MS			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-30-8.5	Batch#:	172990
Lab ID:	226712-041	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	ug/Kg	Prepared:	03/21/11
Basis:	as received	Analyzed:	03/22/11

Analyte	Result	RL	Diln Fac
N-Nitrosodimethylamine	ND	330	1.000
Phenol	ND	330	1.000
bis(2-Chloroethyl)ether	ND	330	1.000
2-Chlorophenol	ND	330	1.000
1,3-Dichlorobenzene	ND	330	1.000
1,4-Dichlorobenzene	ND	330	1.000
Benzyl alcohol	ND	330	1.000
1,2-Dichlorobenzene	ND	330	1.000
2-Methylphenol	ND	330	1.000
bis(2-Chloroisopropyl) ether	ND	330	1.000
4-Methylphenol	ND	330	1.000
N-Nitroso-di-n-propylamine	ND	330	1.000
Hexachloroethane	ND	330	1.000
Nitrobenzene	ND	330	1.000
Isophorone	ND	330	1.000
2-Nitrophenol	ND	660	1.000
2,4-Dimethylphenol	ND	330	1.000
Benzoic acid	ND	1,600	1.000
bis(2-Chloroethoxy)methane	ND	330	1.000
2,4-Dichlorophenol	ND	330	1.000
1,2,4-Trichlorobenzene	ND	330	1.000
Naphthalene	6,000	330	5.000
4-Chloroaniline	ND	330	1.000
Hexachlorobutadiene	ND	330	1.000
4-Chloro-3-methylphenol	ND	330	1.000
2-Methylnaphthalene	7,600	330	5.000
Hexachlorocyclopentadiene	ND	660	1.000
2,4,6-Trichlorophenol	ND	330	1.000
2,4,5-Trichlorophenol	ND	330	1.000
2-Chloronaphthalene	ND	330	1.000
2-Nitroaniline	ND	660	1.000
Dimethylphthalate	ND	330	1.000
Acenaphthylene	ND	66	1.000
2,6-Dinitrotoluene	ND	330	1.000
3-Nitroaniline	ND	660	1.000
Acenaphthene	ND	66	1.000
2,4-Dinitrophenol	ND	660	1.000
4-Nitrophenol	ND	660	1.000
Dibenzofuran	ND	330	1.000
2,4-Dinitrotoluene	ND	330	1.000
Diethylphthalate	ND	330	1.000
Fluorene	ND	66	1.000
4-Chlorophenyl-phenylether	ND	330	1.000
4-Nitroaniline	ND	660	1.000
4,6-Dinitro-2-methylphenol	ND	660	1.000
N-Nitrosodiphenylamine	ND	330	1.000
Azobenzene	ND	330	1.000
4-Bromophenyl-phenylether	ND	330	1.000
Hexachlorobenzene	ND	330	1.000
Pentachlorophenol	ND	660	1.000
Phenanthrene	93	66	1.000
Anthracene	ND	66	1.000
Di-n-butylphthalate	ND	330	1.000
Fluoranthene	ND	66	1.000

ND= Not Detected  
 RL= Reporting Limit

Semivolatile Organics by GC/MS			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3550B
Project#:	241.082.02.001	Analysis:	EPA 8270C
Field ID:	SB-30-8.5	Batch#:	172990
Lab ID:	226712-041	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	ug/Kg	Prepared:	03/21/11
Basis:	as received	Analyzed:	03/22/11

Analyte	Result	RL	Diln Fac
Pyrene	ND	66	1.000
Butylbenzylphthalate	ND	330	1.000
3,3'-Dichlorobenzidine	ND	660	1.000
Benzo(a)anthracene	ND	66	1.000
Chrysene	ND	66	1.000
bis(2-Ethylhexyl)phthalate	ND	330	1.000
Di-n-octylphthalate	ND	330	1.000
Benzo(b)fluoranthene	ND	66	1.000
Benzo(k)fluoranthene	ND	66	1.000
Benzo(a)pyrene	ND	66	1.000
Indeno(1,2,3-cd)pyrene	ND	66	1.000
Dibenz(a,h)anthracene	ND	66	1.000
Benzo(g,h,i)perylene	ND	66	1.000

Surrogate	%REC	Limits	Diln Fac
2-Fluorophenol	39	35-120	1.000
Phenol-d5	60	33-120	1.000
2,4,6-Tribromophenol	73	30-120	1.000
Nitrobenzene-d5	63	43-120	1.000
2-Fluorobiphenyl	75	47-120	1.000
Terphenyl-d14	69	40-120	1.000

ND= Not Detected  
 RL= Reporting Limit  
 Page 2 of 2

**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584646	Batch#: 172990
Matrix:	Soil	Prepared: 03/21/11
Units:	ug/Kg	Analyzed: 03/22/11

<b>Analyte</b>	<b>Result</b>	<b>RL</b>
N-Nitrosodimethylamine	ND	330
Phenol	ND	330
bis(2-Chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
Benzyl alcohol	ND	330
1,2-Dichlorobenzene	ND	330
2-Methylphenol	ND	330
bis(2-Chloroisopropyl) ether	ND	330
4-Methylphenol	ND	330
N-Nitroso-di-n-propylamine	ND	330
Hexachloroethane	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	660
2,4-Dimethylphenol	ND	330
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	66
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-methylphenol	ND	330
2-Methylnaphthalene	ND	66
Hexachlorocyclopentadiene	ND	660
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	330
2-Chloronaphthalene	ND	330
2-Nitroaniline	ND	660
Dimethylphthalate	ND	330
Acenaphthylene	ND	66
2,6-Dinitrotoluene	ND	330
3-Nitroaniline	ND	660
Acenaphthene	ND	66
2,4-Dinitrophenol	ND	660
4-Nitrophenol	ND	660
Dibenzofuran	ND	330
2,4-Dinitrotoluene	ND	330
Diethylphthalate	ND	330
Fluorene	ND	66
4-Chlorophenyl-phenylether	ND	330
4-Nitroaniline	ND	660
4,6-Dinitro-2-methylphenol	ND	660
N-Nitrosodiphenylamine	ND	330
Azobenzene	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	660
Phenanthrene	ND	66
Anthracene	ND	66
Di-n-butylphthalate	ND	330
Fluoranthene	ND	66

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

Semivolatile Organics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584646	Batch#: 172990
Matrix:	Soil	Prepared: 03/21/11
Units:	ug/Kg	Analyzed: 03/22/11

Analyte	Result	RL
Pyrene	ND	66
Butylbenzylphthalate	ND	330
3,3'-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	66
Chrysene	ND	66
bis(2-Ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	66
Benzo(k)fluoranthene	ND	66
Benzo(a)pyrene	ND	66
Indeno(1,2,3-cd)pyrene	ND	66
Dibenz(a,h)anthracene	ND	66
Benzo(g,h,i)perylene	ND	66

Surrogate	%REC	Limits
2-Fluorophenol	74	35-120
Phenol-d5	76	33-120
2,4,6-Tribromophenol	63	30-120
Nitrobenzene-d5	66	43-120
2-Fluorobiphenyl	76	47-120
Terphenyl-d14	68	40-120

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>Semivolatile Organics by GC/MS</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Type:	LCS	Diln Fac: 1.000
Lab ID:	QC584647	Batch#: 172990
Matrix:	Soil	Prepared: 03/21/11
Units:	ug/Kg	Analyzed: 03/22/11

<b>Analyte</b>	<b>Spiked</b>	<b>Result</b>	<b>%REC</b>	<b>Limits</b>
Phenol	2,664	2,011	75	39-120
2-Chlorophenol	2,664	2,000	75	44-120
1,4-Dichlorobenzene	2,664	1,978	74	46-120
N-Nitroso-di-n-propylamine	2,664	1,753	66	33-120
1,2,4-Trichlorobenzene	2,664	2,090	78	48-120
4-Chloro-3-methylphenol	2,664	2,148	81	47-120
Acenaphthene	999.0	752.6	75	47-120
4-Nitrophenol	2,664	2,180	82	35-120
2,4-Dinitrotoluene	2,664	2,091	78	46-120
Pentachlorophenol	2,664	2,047	77	25-120
Pyrene	999.0	791.3	79	45-120

<b>Surrogate</b>	<b>%REC</b>	<b>Limits</b>
2-Fluorophenol	71	35-120
Phenol-d5	75	33-120
2,4,6-Tribromophenol	79	30-120
Nitrobenzene-d5	65	43-120
2-Fluorobiphenyl	72	47-120
Terphenyl-d14	69	40-120

**Batch QC Report**

Semivolatile Organics by GC/MS		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3550B
Project#:	241.082.02.001	Analysis: EPA 8270C
Field ID:	SB-11-12.5	Batch#: 172990
MSS Lab ID:	226712-009	Sampled: 03/17/11
Matrix:	Soil	Received: 03/17/11
Units:	ug/Kg	Prepared: 03/21/11
Basis:	as received	Analyzed: 03/22/11
Diln Fac:	1.000	

Type: MS Lab ID: QC584648

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<7.026	2,638	2,231	85	41-120
2-Chlorophenol	<7.316	2,638	2,111	80	44-120
1,4-Dichlorobenzene	<7.659	2,638	1,999	76	46-120
N-Nitroso-di-n-propylamine	<7.821	2,638	1,927	73	36-120
1,2,4-Trichlorobenzene	<7.849	2,638	2,083	79	48-120
4-Chloro-3-methylphenol	<8.287	2,638	2,255	85	47-120
Acenaphthene	<8.159	989.1	783.7	79	45-120
4-Nitrophenol	<70.86	2,638	2,373	90	35-120
2,4-Dinitrotoluene	<9.564	2,638	2,035	77	44-120
Pentachlorophenol	<127.2	2,638	1,848	70	19-120
Pyrene	26.93	989.1	845.3	83	41-120

Surrogate	%REC	Limits
2-Fluorophenol	76	35-120
Phenol-d5	85	33-120
2,4,6-Tribromophenol	71	30-120
Nitrobenzene-d5	71	43-120
2-Fluorobiphenyl	75	47-120
Terphenyl-d14	70	40-120

Type: MSD Lab ID: QC584649

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,652	2,322	88	41-120	3	45
2-Chlorophenol	2,652	2,188	83	44-120	3	44
1,4-Dichlorobenzene	2,652	2,059	78	46-120	2	41
N-Nitroso-di-n-propylamine	2,652	2,018	76	36-120	4	50
1,2,4-Trichlorobenzene	2,652	2,145	81	48-120	2	39
4-Chloro-3-methylphenol	2,652	2,309	87	47-120	2	40
Acenaphthene	994.4	802.5	81	45-120	2	39
4-Nitrophenol	2,652	2,391	90	35-120	0	57
2,4-Dinitrotoluene	2,652	2,085	79	44-120	2	42
Pentachlorophenol	2,652	1,769	67	19-120	5	66
Pyrene	994.4	878.6	86	41-120	3	52

Surrogate	%REC	Limits
2-Fluorophenol	78	35-120
Phenol-d5	87	33-120
2,4,6-Tribromophenol	67	30-120
Nitrobenzene-d5	74	43-120
2-Fluorobiphenyl	76	47-120
Terphenyl-d14	73	40-120

RPD= Relative Percent Difference

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-20-1.5	Basis:	as received
Lab ID:	226712-001	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	9.5	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	23	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	200	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.28	0.10	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	1.0	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	35	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	8.0	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	200	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	180	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.62	0.021	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.73	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	39	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	32	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	240	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-20-8.5	Basis:	as received
Lab ID:	226712-002	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.8	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	15	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	110	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.18	0.10	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.61	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	29	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	8.1	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	82	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	65	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.11	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.58	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	36	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	29	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	130	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-20-12.5	Basis:	as received
Lab ID:	226712-003	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.2	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	7.7	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	150	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.36	0.10	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	41	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	12	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	43	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	35	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.28	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.64	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	47	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	33	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	81	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-35-2.5	Basis:	as received
Lab ID:	226712-004	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.2	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	7.7	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	160	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.43	0.10	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.31	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	28	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	10	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	70	0.26	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	78	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.54	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.68	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	33	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	44	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	120	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-35-8.5	Basis:	as received
Lab ID:	226712-005	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.5	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.1	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	67	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.28	0.10	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.46	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	14	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	5.8	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	26	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	17	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.20	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.60	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	14	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	20	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	56	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-35-12.5	Basis:	as received
Lab ID:	226712-006	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.1	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.1	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	220	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.26	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.43	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	19	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	4.3	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	28	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	65	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.21	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.97	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	23	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	23	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	200	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-11-2.5	Basis:	as received
Lab ID:	226712-007	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.9	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.7	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	130	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.50	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.28	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	9.7	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	34	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	20	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.056	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.64	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	54	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	52	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	49	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-11-7.5	Basis:	as received
Lab ID:	226712-008	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	4.0	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.4	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	200	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.44	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	39	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	12	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	16	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	25	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.099	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.42	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	53	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	49	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-11-12.5	Basis:	as received
Lab ID:	226712-009	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.7	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	8.0	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	190	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.47	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.31	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	9.9	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	51	0.26	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	88	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.29	0.021	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	1.0	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	35	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	0.30	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	41	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	280	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-34-2.5	Basis:	as received
Lab ID:	226712-010	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	20	0.50	1.000		172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	14	0.25	1.000		172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	170	0.25	1.000		172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.32	0.10	1.000		172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.73	0.25	1.000		172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	31	0.25	1.000		172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	9.2	0.25	1.000		172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	160	0.25	1.000		172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	680	2.4	10.00		172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.19	0.020	1.000		173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.63	0.25	1.000		172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	34	0.25	1.000		172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	38	0.25	1.000		172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	250	1.0	1.000		172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-34-8.5	Basis:	as received
Lab ID:	226712-011	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	4.1	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.1	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	120	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.47	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	27	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	6.5	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	18	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	24	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.19	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.54	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	22	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	25	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	36	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-34-10.5	Basis:	as received
Lab ID:	226712-012	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	4.2	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	2.4	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	93	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.39	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.49	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	24	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	3.3	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	36	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	250	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.42	0.022	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.78	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	15	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	12	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	100	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-21-2.5	Basis:	as received
Lab ID:	226712-013	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	4.9	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	4.3	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	86	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	40	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	9.8	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	18	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	44	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.066	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.33	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	42	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	34	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	62	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-21-8.5	Basis:	as received
Lab ID:	226712-014	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	10	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	5.8	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	120	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.33	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	1.2	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	37	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	8.3	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	52	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	140	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.25	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.76	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	37	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	36	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	430	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-21-12.5	Basis:	as received
Lab ID:	226712-015	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	12	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	4.2	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	110	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.25	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.43	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	30	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	7.7	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	77	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	84	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.39	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	1.1	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	31	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	30	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	100	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-33-2.5	Basis:	as received
Lab ID:	226712-016	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.9	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	4.1	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	200	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.46	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.59	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	44	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	18	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	25	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	6.7	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.11	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	1.2	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	64	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	51	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	44	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-33-8.5	Basis:	as received
Lab ID:	226712-017	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.9	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	6.6	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	140	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.42	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.38	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	27	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	6.8	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	72	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	69	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.32	0.021	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	1.2	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	22	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	37	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	110	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-33-12.5	Basis:	as received
Lab ID:	226712-018	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.3	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	5.6	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	110	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.40	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	27	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	12	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	14	0.26	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	6.7	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.074	0.020	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.91	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	34	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	32	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	28	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-23-2.5	Basis:	as received
Lab ID:	226712-019	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	9.5	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	8.7	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	160	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.48	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.52	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	35	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	8.8	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	140	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	83	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.18	0.022	173057	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.88	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	35	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	34	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	94	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-23-7.0	Basis:	as received
Lab ID:	226712-020	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	4.0	0.50	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	3.0	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	130	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.45	0.10	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cadmium	0.32	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	40	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Cobalt	8.4	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Copper	16	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Lead	110	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Mercury	0.048	0.021	173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.72	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	35	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172959	03/20/11	03/29/11	EPA 3050B	EPA 6010B
Vanadium	37	0.25	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	54	1.0	172959	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-23-12.5	Basis:	as received
Lab ID:	226712-021	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	2.2	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	6.0	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	66	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.21	0.10	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.34	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	24	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	6.5	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	8.3	0.25	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	12	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.035	0.020	173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.53	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	24	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	28	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	23	1.0	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-22-2.5	Basis:	as received
Lab ID:	226712-026	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	8.8	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	98	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	630	2.2	10.00		172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Beryllium	0.34	0.10	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	2.5	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	40	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	11	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	200	0.25	1.000		172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	190	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.35	0.020	1.000		173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	4.5	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	45	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	33	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	560	8.9	10.00		172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-22-7.0	Basis:	as received
Lab ID:	226712-027	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	3.1	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	2.7	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	170	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.41	0.10	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	36	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	6.3	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	14	0.25	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	94	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.10	0.020	173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.32	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	34	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	34	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	54	1.0	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-22-12.5	Basis:	as received
Lab ID:	226712-028	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	6.9	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	6.9	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	180	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.42	0.10	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.45	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	35	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	8.9	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	78	0.25	1.000		172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	130	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	2.0	0.096	5.000		173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	2.3	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	32	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	34	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	140	1.0	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-19-2.5	Basis:	as received
Lab ID:	226712-029	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	mg/Kg		

Analyte	Result	RL	Diln	Fac	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	13	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	120	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	640	2.2	10.00		172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Beryllium	0.28	0.10	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	3.9	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	59	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	8.0	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	790	2.3	10.00		172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	330	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.29	0.021	1.000		173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.60	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	49	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	0.40	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	32	0.25	1.000		172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	1,500	8.9	10.00		172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-19-7.5	Basis:	as received
Lab ID:	226712-030	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	12	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	16	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	430	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.56	0.10	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	1.1	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	33	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	7.3	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	110	0.26	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	250	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.35	0.020	173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	1.1	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	47	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	53	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	190	1.0	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit



**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-19-12.5	Basis:	as received
Lab ID:	226712-031	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	4.4	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	6.8	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	180	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.29	0.10	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	34	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	7.0	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	19	0.25	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	53	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.76	0.020	173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.63	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	31	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	0.67	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	32	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	85	1.0	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-18-2.5	Basis:	as received
Lab ID:	226712-037	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	5.9	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	68	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	290	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.27	0.10	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	11	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	38	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	6.9	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	230	0.25	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	170	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.56	0.020	173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.66	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Nickel	32	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	2.8	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	0.30	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Vanadium	24	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	430	1.0	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-18-7.0	Basis:	as received
Lab ID:	226712-038	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	1.1	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Arsenic	2.8	0.25	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Barium	72	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.25	0.10	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	15	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	3.7	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	9.6	0.25	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	24	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.15	0.020	173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	ND	0.25	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Nickel	18	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	1.2	0.50	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	17	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	27	1.0	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**California Title 22 Metals**

Lab #:	226712	Project#:	241.082.02.001
Client:	PES Environmental, Inc.	Location:	64th & Christie Emeryville, CA
Field ID:	SB-18-12.5	Basis:	as received
Lab ID:	226712-039	Diln Fac:	1.000
Matrix:	Soil	Sampled:	03/17/11
Units:	mg/Kg	Received:	03/17/11

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	7.4	0.50	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Arsenic	5.5	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Barium	170	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Beryllium	0.40	0.10	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cadmium	0.33	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Chromium	66	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Cobalt	9.5	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Copper	25	0.26	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Lead	14	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Mercury	0.26	0.020	173054	03/23/11	03/23/11	METHOD	EPA 7471A
Molybdenum	0.36	0.25	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Nickel	59	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Selenium	ND	0.50	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Silver	ND	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Thallium	ND	0.50	172960	03/20/11	03/28/11	EPA 3050B	EPA 6010B
Vanadium	48	0.25	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B
Zinc	160	1.0	172960	03/20/11	03/27/11	EPA 3050B	EPA 6010B

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

<b>California Title 22 Metals</b>			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	EPA 3050B
Project#:	241.082.02.001	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC584526	Batch#:	172959
Matrix:	Soil	Prepared:	03/20/11
Units:	mg/Kg		

Analyte	Result	RL	Analyzed
Antimony	ND	0.50	03/27/11
Arsenic	ND	0.25	03/27/11
Barium	ND	0.25	03/27/11
Beryllium	ND	0.10	03/27/11
Cadmium	ND	0.25	03/27/11
Chromium	ND	0.25	03/27/11
Cobalt	ND	0.25	03/27/11
Copper	ND	0.26	03/29/11
Lead	ND	0.25	03/27/11
Molybdenum	ND	0.25	03/27/11
Nickel	ND	0.25	03/27/11
Selenium	ND	0.50	03/29/11
Silver	ND	0.25	03/29/11
Thallium	ND	0.50	03/27/11
Vanadium	ND	0.25	03/27/11
Zinc	ND	1.0	03/27/11

ND= Not Detected  
 RL= Reporting Limit

**Batch QC Report**

California Title 22 Metals		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Matrix:	Soil	Batch#: 172959
Units:	mg/Kg	Prepared: 03/20/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584527

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	100.0	101.7	102	80-120	03/27/11
Arsenic	50.00	52.04	104	80-120	03/27/11
Barium	100.0	97.40	97	80-120	03/27/11
Beryllium	2.500	2.486	99	80-120	03/27/11
Cadmium	10.00	10.24	102	80-120	03/27/11
Chromium	100.0	96.03	96	80-120	03/27/11
Cobalt	25.00	23.51	94	80-120	03/27/11
Copper	12.50	12.35	99	78-120	03/29/11
Lead	100.0	95.34	95	80-120	03/27/11
Molybdenum	20.00	19.56	98	80-120	03/27/11
Nickel	25.00	23.75	95	80-120	03/27/11
Selenium	50.00	52.78	106	80-120	03/29/11
Silver	10.00	9.849	98	80-120	03/29/11
Thallium	50.00	48.35	97	80-120	03/27/11
Vanadium	25.00	24.60	98	80-120	03/27/11
Zinc	25.00	24.60	98	80-120	03/27/11

Type: BSD Lab ID: QC584528

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	100.0	101.0	101	80-120	1	20	03/27/11
Arsenic	50.00	51.71	103	80-120	1	20	03/27/11
Barium	100.0	97.48	97	80-120	0	20	03/27/11
Beryllium	2.500	2.504	100	80-120	1	20	03/27/11
Cadmium	10.00	10.23	102	80-120	0	20	03/27/11
Chromium	100.0	96.46	96	80-120	0	20	03/27/11
Cobalt	25.00	23.47	94	80-120	0	20	03/27/11
Copper	12.50	12.33	99	78-120	0	20	03/29/11
Lead	100.0	95.42	95	80-120	0	20	03/27/11
Molybdenum	20.00	19.48	97	80-120	0	20	03/27/11
Nickel	25.00	23.72	95	80-120	0	20	03/27/11
Selenium	50.00	51.73	103	80-120	2	20	03/29/11
Silver	10.00	9.704	97	80-120	1	20	03/29/11
Thallium	50.00	48.23	96	80-120	0	20	03/27/11
Vanadium	25.00	24.56	98	80-120	0	20	03/27/11
Zinc	25.00	24.49	98	80-120	0	20	03/27/11

RPD= Relative Percent Difference

**Batch QC Report**

California Title 22 Metals		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Field ID:	SB-20-1.5	Batch#: 172959
MSS Lab ID:	226712-001	Sampled: 03/17/11
Matrix:	Soil	Received: 03/17/11
Units:	mg/Kg	Prepared: 03/20/11
Basis:	as received	

Type: MS Lab ID: QC584529

Analyte	MSS Result	Spiked	Result	%REC	Limits	Diln	Fac	Analyzed
Antimony	9.468	88.50	57.85	55	7-120	1.000		03/27/11
Arsenic	22.95	44.25	95.59	164 *	66-122	1.000		03/27/11
Barium	200.7	88.50	329.7	146 *	51-135	1.000		03/27/11
Beryllium	0.2761	2.212	2.272	90	73-120	1.000		03/27/11
Cadmium	1.013	8.850	9.749	99	64-120	1.000		03/27/11
Chromium	35.25	88.50	116.9	92	57-122	1.000		03/27/11
Cobalt	8.024	22.12	27.61	89	53-122	1.000		03/27/11
Copper	200.0	11.06	204.8	43 NM	33-157	1.000		03/29/11
Lead	176.8	88.50	318.3	160 *	52-123	10.00		03/30/11
Molybdenum	0.7301	17.70	16.70	90	66-120	1.000		03/27/11
Nickel	39.44	22.12	60.28	94	42-137	1.000		03/27/11
Selenium	<0.1354	44.25	43.94	99	64-120	1.000		03/29/11
Silver	0.2358	8.850	8.691	96	65-120	1.000		03/29/11
Thallium	<0.1300	44.25	39.41	89	55-120	1.000		03/27/11
Vanadium	31.56	22.12	54.05	102	49-139	1.000		03/27/11
Zinc	239.7	22.12	268.3	129 NM	32-155	1.000		03/27/11

Type: MSD Lab ID: QC584530

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Diln	Fac	Analyzed
Antimony	92.59	122.3	122 *	7-120	68 *	44	1.000		03/27/11
Arsenic	46.30	63.20	87	66-122	44 *	35	1.000		03/27/11
Barium	92.59	322.2	131	51-135	4	42	1.000		03/27/11
Beryllium	2.315	2.403	92	73-120	2	22	1.000		03/27/11
Cadmium	9.259	9.632	93	64-120	5	36	1.000		03/27/11
Chromium	92.59	119.6	91	57-122	1	34	1.000		03/27/11
Cobalt	23.15	29.01	91	53-122	2	32	1.000		03/27/11
Copper	11.57	171.6	-246 NM	33-157	18	41	1.000		03/29/11
Lead	92.59	957.2	843 *	52-123	99 *	41	10.00		03/30/11
Molybdenum	18.52	17.53	91	66-120	0	20	1.000		03/27/11
Nickel	23.15	61.25	94	42-137	0	36	1.000		03/27/11
Selenium	46.30	46.12	100	64-120	0	28	1.000		03/29/11
Silver	9.259	9.471	100	65-120	4	27	1.000		03/29/11
Thallium	46.30	42.36	91	55-120	3	27	1.000		03/27/11
Vanadium	23.15	53.72	96	49-139	3	32	1.000		03/27/11
Zinc	23.15	250.8	48 NM	32-155	7	45	1.000		03/27/11

\*= Value outside of QC limits; see narrative

NM= Not Meaningful: Sample concentration > 4X spike concentration

RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Type:	BLANK	Diln Fac: 1.000
Lab ID:	QC584531	Batch#: 172960
Matrix:	Soil	Prepared: 03/20/11
Units:	mg/Kg	Analyzed: 03/27/11

Analyte	Result	RL
Antimony	ND	0.50
Arsenic	ND	0.25
Barium	ND	0.25
Beryllium	ND	0.10
Cadmium	ND	0.25
Chromium	ND	0.25
Cobalt	ND	0.25
Copper	ND	0.26
Lead	ND	0.25
Molybdenum	ND	0.25
Nickel	ND	0.25
Selenium	ND	0.50
Silver	ND	0.25
Thallium	ND	0.50
Vanadium	ND	0.25
Zinc	ND	1.0

ND= Not Detected

RL= Reporting Limit



**Batch QC Report**

California Title 22 Metals		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Matrix:	Soil	Batch#: 172960
Units:	mg/Kg	Prepared: 03/20/11
Diln Fac:	1.000	

Type: BS Lab ID: QC584532

Analyte	Spiked	Result	%REC	Limits	Analyzed
Antimony	100.0	97.67	98	80-120	03/27/11
Arsenic	50.00	50.67	101	80-120	03/27/11
Barium	100.0	96.10	96	80-120	03/27/11
Beryllium	2.500	2.523	101	80-120	03/27/11
Cadmium	10.00	10.34	103	80-120	03/27/11
Chromium	100.0	94.46	94	80-120	03/27/11
Cobalt	25.00	23.13	93	80-120	03/27/11
Copper	12.50	11.98	96	78-120	03/28/11
Lead	100.0	95.59	96	80-120	03/27/11
Molybdenum	20.00	20.06	100	80-120	03/27/11
Nickel	25.00	23.78	95	80-120	03/27/11
Selenium	50.00	48.81	98	80-120	03/27/11
Silver	10.00	9.582	96	80-120	03/27/11
Thallium	50.00	47.10	94	80-120	03/27/11
Vanadium	25.00	24.56	98	80-120	03/27/11
Zinc	25.00	22.71	91	80-120	03/27/11

Type: BSD Lab ID: QC584533

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	100.0	98.95	99	80-120	1	20	03/27/11
Arsenic	50.00	51.77	104	80-120	2	20	03/27/11
Barium	100.0	96.40	96	80-120	0	20	03/27/11
Beryllium	2.500	2.533	101	80-120	0	20	03/27/11
Cadmium	10.00	10.59	106	80-120	2	20	03/27/11
Chromium	100.0	95.36	95	80-120	1	20	03/27/11
Cobalt	25.00	23.61	94	80-120	2	20	03/27/11
Copper	12.50	12.45	100	78-120	4	20	03/28/11
Lead	100.0	97.65	98	80-120	2	20	03/27/11
Molybdenum	20.00	20.32	102	80-120	1	20	03/27/11
Nickel	25.00	24.29	97	80-120	2	20	03/27/11
Selenium	50.00	49.30	99	80-120	1	20	03/27/11
Silver	10.00	9.560	96	80-120	0	20	03/27/11
Thallium	50.00	48.05	96	80-120	2	20	03/27/11
Vanadium	25.00	24.81	99	80-120	1	20	03/27/11
Zinc	25.00	23.00	92	80-120	1	20	03/27/11

RPD= Relative Percent Difference

**Batch QC Report**

California Title 22 Metals		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: EPA 3050B
Project#:	241.082.02.001	Analysis: EPA 6010B
Field ID:	SB-23-12.5	Diln Fac: 1.000
MSS Lab ID:	226712-021	Batch#: 172960
Matrix:	Soil	Sampled: 03/17/11
Units:	mg/Kg	Received: 03/17/11
Basis:	as received	Prepared: 03/20/11

Type: MS Lab ID: QC584534

Analyte	MSS	Result	Spiked	Result	%REC	Limits	Analyzed
Antimony		2.151	100.0	61.91	60	7-120	03/27/11
Arsenic		6.029	50.00	60.90	110	66-122	03/27/11
Barium		66.01	100.0	154.4	88	51-135	03/27/11
Beryllium		0.2062	2.500	2.879	107	73-120	03/27/11
Cadmium		0.3421	10.00	10.28	99	64-120	03/27/11
Chromium		23.69	100.0	124.9	101	57-122	03/27/11
Cobalt		6.535	25.00	32.59	104	53-122	03/27/11
Copper		8.267	12.50	27.42	153	33-157	03/28/11
Lead		11.98	100.0	96.04	84	52-123	03/27/11
Molybdenum		0.5348	20.00	19.86	97	66-120	03/27/11
Nickel		23.90	25.00	74.75	203 *	42-137	03/27/11
Selenium		<0.1318	50.00	48.68	97	64-120	03/27/11
Silver		<0.06735	10.00	9.818	98	65-120	03/27/11
Thallium		0.2478	50.00	43.71	87	55-120	03/27/11
Vanadium		28.28	25.00	69.02	163 *	49-139	03/27/11
Zinc		23.07	25.00	56.66	134	32-155	03/27/11

Type: MSD Lab ID: QC584535

Analyte	Spiked	Result	%REC	Limits	RPD	Lim	Analyzed
Antimony	88.50	56.07	61	7-120	2	44	03/27/11
Arsenic	44.25	49.94	99	66-122	9	35	03/27/11
Barium	88.50	155.3	101	51-135	8	42	03/27/11
Beryllium	2.212	2.419	100	73-120	6	22	03/27/11
Cadmium	8.850	8.068	87	64-120	12	36	03/27/11
Chromium	88.50	107.9	95	57-122	5	34	03/27/11
Cobalt	22.12	27.54	95	53-122	7	32	03/27/11
Copper	11.06	24.37	146	33-157	5	41	03/28/11
Lead	88.50	77.52	74	52-123	11	41	03/27/11
Molybdenum	17.70	16.92	93	66-120	4	20	03/27/11
Nickel	22.12	65.08	186 *	42-137	8	36	03/27/11
Selenium	44.25	37.00	84	64-120	15	28	03/27/11
Silver	8.850	7.529	85	65-120	14	27	03/27/11
Thallium	44.25	33.29	75	55-120	15	27	03/27/11
Vanadium	22.12	66.51	173 *	49-139	2	32	03/27/11
Zinc	22.12	53.24	136	32-155	0	45	03/27/11

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	173054
Lab ID:	QC584907	Prepared:	03/23/11
Matrix:	Soil	Analyzed:	03/23/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected  
 RL= Reporting Limit

## Batch QC Report

California Title 22 Metals		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Batch#: 173054
Matrix:	Soil	Prepared: 03/23/11
Units:	mg/Kg	Analyzed: 03/23/11
Diln Fac:	1.000	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584908	0.2500	0.2580	103	80-120		
BSD	QC584909	0.2500	0.2540	102	80-120	2	20

RPD= Relative Percent Difference

## Batch QC Report

California Title 22 Metals			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	SB-23-12.5	Batch#:	173054
MSS Lab ID:	226712-021	Sampled:	03/17/11
Matrix:	Soil	Received:	03/17/11
Units:	mg/Kg	Prepared:	03/23/11
Basis:	as received	Analyzed:	03/23/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584910	0.03528	0.2500	0.3210	114	72-124		
MSD	QC584911		0.2315	0.2954	112	72-124	2	31

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	226712	Location:	64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep:	METHOD
Project#:	241.082.02.001	Analysis:	EPA 7471A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	173057
Lab ID:	QC584920	Prepared:	03/23/11
Matrix:	Soil	Analyzed:	03/23/11
Units:	mg/Kg		

Result	RL
ND	0.020

ND= Not Detected  
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Batch#: 173057
Matrix:	Soil	Prepared: 03/23/11
Units:	mg/Kg	Analyzed: 03/23/11
Diln Fac:	1.000	

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC584921	0.2500	0.2570	103	80-120		
BSD	QC584922	0.2500	0.2520	101	80-120	2	20

RPD= Relative Percent Difference

**Batch QC Report**

<b>California Title 22 Metals</b>		
Lab #:	226712	Location: 64th & Christie Emeryville, CA
Client:	PES Environmental, Inc.	Prep: METHOD
Project#:	241.082.02.001	Analysis: EPA 7471A
Analyte:	Mercury	Diln Fac: 1.000
Field ID:	SB-20-1.5	Batch#: 173057
MSS Lab ID:	226712-001	Sampled: 03/17/11
Matrix:	Soil	Received: 03/17/11
Units:	mg/Kg	Prepared: 03/23/11
Basis:	as received	Analyzed: 03/23/11

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC584923	0.6208	0.2604	0.8313	81	72-124		
MSD	QC584924		0.2717	0.7870	61 *	72-124	7	31

\*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



**DISTRIBUTION**

**RESULTS OF PRE-EXCAVATION INVESTIGATION  
AND PRELIMINARY SOIL CHARACTERIZATION  
PROPOSED 64<sup>th</sup> AND CHRISTIE RESIDENTIAL BUILDING  
64<sup>th</sup> STREET & CHRISTIE AVENUE  
EMERYVILLE, CALIFORNIA**

**JUNE 1, 2011**

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